HYUNDAI

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 HYUNDAI models 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.

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 U.S. Department of Transportation and other federal or state agencies.

TWO-WAY RADIO OR CELLULAR TELEPHONE INSTALLATION

Your vehicle is equipped with an electric traction motor and other 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.

SAFETY AND VEHICLE DAMAGE WARNING

This manual includes information titled as DANGER, WARNING, CAUTION and NOTICE.

These titles indicate the following:

⚠ DANGER

DANGER indicates a hazardous situation 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.

HYUNDAI VEHICLE OWNER PRIVACY POLICY

Your Hyundai vehicle may be equipped with technologies and services that use information collected, generated, recorded or stored by the vehicle. Hyundai has created a Vehicle Owner Privacy Policy to explain how these technologies and services collect use and share this information.

You may read our Vehicle Owner Privacy Policy on the Hyundaiusa.com website at:
https://www.hyundaiusa.com/owner-privacy-policy.aspx

If you would like to receive a hard copy of our Vehicle Owner Privacy Policy, please contact our Customer Connect Center at:

Hyundai Customer Care
P.O. Box 20850
Fountain Valley, CA 92728
800-633-5151
consumeraffairs@hmausa.com

Hyundai's Customer Connect Center representatives are available Monday through Friday, between the hours of 6:00 AM and 5:00 PM PST and Saturday and Sunday between 6:30 AM and 3:00 PM PST (English).

For Customer Connect Center assistance in Spanish or Korean, representatives are available Monday through Friday between 6:30 AM and 3:00 PM PST.

INTRODUCTION

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

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

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

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

This Owner's Manual should be considered a permanent part of your vehicle, and should be kept in the vehicle so you can refer to it at any time. The manual should stay with the vehicle if you sell it to provide the next owner with important operating, safety and maintenance information.

HYUNDAI MOTOR AMERICA

⚠ CAUTION

Severe vehicle damage may result from the use of poor quality lubricants that do not meet HYUNDAI specifications. You must always use high quality lubricants that meet the specifications listed on Page 8-6 in the Vehicle Specifications section of the Owner's Manual.

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GUIDE TO HYUNDAI GENUINE PARTS

1. What are HYUNDAI Genuine Parts?

HYUNDAI Genuine Parts are the same parts used by HYUNDAI Motor Company to manufacture vehicles. They are designed and tested for the optimum safety, performance, and reliability for our customers.

2. Why should you use genuine parts?

HYUNDAI Genuine Parts are engineered and built to meet rigid manufacturing requirements. Damage caused by using imitation, counterfeit or used salvage parts is not covered under the HYUNDAI New Vehicle Limited Warranty or any other HYUNDAI warranty.

In addition, any damage to or failure of HYUNDAI Genuine Parts caused by the installation or failure of an imitation, counterfeit or used salvage part is not covered by any HYUNDAI Warranty.

3. How can you tell if you are purchasing HYUNDAI Genuine Parts?

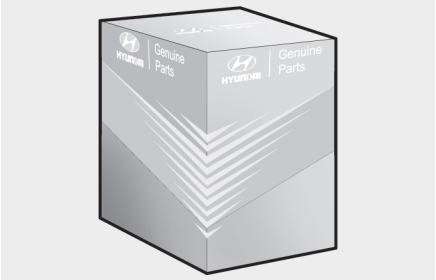
Look for the HYUNDAI Genuine Parts Logo on the package (see below).

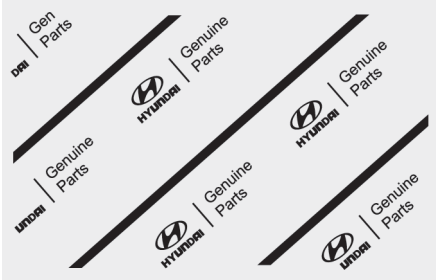
HYUNDAI Genuine Parts exported to the U.S. are packaged with labels written only in English.

HYUNDAI Genuine Parts are only sold through authorized HYUNDAI Dealerships.

HYUNDAI | Genuine Parts







HOW TO USE THIS MANUAL

We want to help you get the greatest possible driving pleasure from your vehicle. Your Owner's Manual can assist you in many ways. To gain an overview of the contents of your Owner's Manual, use the Table of Contents in the front of the manual. The first page of each Chapter includes a detailed Table of Contents of the topics in that Chapter.

To quickly locate information about your vehicle, use the Index in the back of the manual. It is an alphabetical list of what is in this manual and the page number where it can be found.

For your convenience, we have incorporated tabs on the right-hand page edges. These tabs are coded with the Chapter titles to assist you with navigating through the manual.

SAFETY MESSAGES

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

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FUEL REQUIREMENTS

For the optimal vehicle performance, we recommend you to use the hydrogen fuel which complies with your local regulatory agency standard (purity, maximum concentration of impurities, etc.).

VEHICLE MODIFICATIONS

- This vehicle should not be modified. Modification of your vehicle could affect its performance, safety or durability and may even violate governmental safety and emissions regulations.

  In addition, damage or performance problems resulting from any modification may not be covered under warranty.
- If you use unauthorized electronic devices, it may cause the vehicle to operate abnormally, wire damage, battery discharge and fire. For your safety, do not use unauthorized electronic devices.

⚠ WARNING

CALIFORNIA PROPOSITION 65 WARNING

Items contained in motor vehicles or emitted from them are known to the State of California to cause cancer and birth defects or reproductive harm. These include:

- **Gasoline and its vapors**
- **Engine exhaust**
- **Used engine oil**
- **Interior passenger compartment components and materials**
- **Component parts which are subject to heat and wear**

In addition, battery posts, terminals and related accessories contain lead, lead compounds and other chemicals known to the State of California to cause cancer and reproductive harm.

VEHICLE DATA COLLECTION AND EVENT DATA RECORDERS

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

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

These data can help provide a better understanding of the circumstances in which crashes and injuries occur. NOTE: EDR data are recorded by your vehicle only if a non-trivial crash situation occurs; no data are recorded by the EDR under normal driving conditions and no personal data (e.g., name, gender, age, and crash location) are recorded. However, other parties, such as law enforcement, could combine the EDR data with the type of personally identifying data routinely acquired during a crash investigation.

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

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Safety System of Your Vehicle	2
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FCEV Vehicle System Overview

FCEV : Fuel Cell Electric Vehicle

Introduction of FCEV H2
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INTRODUCTION OF FCEV

An FCEV is an electric vehicle which is driven using the electricity generated from the fuel cell.
The power system of the FCEV is composed of the following:

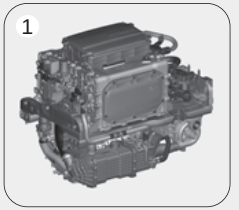
- The fuel cell stack which generates the electricity
- The device which controls the heat generated after supplying the hydrogen and air for chemical reaction of the stack
- The inverter which converts the DC created from the stack to AC
- The traction motor which generates propelling power using the supplied AC
- Air processing system
- Fuel processing system

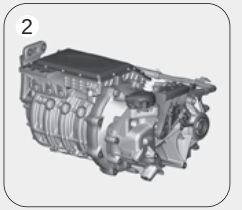
The hydrogen tanks that stores the hydrogen supplied to the fuel cell can be fueled at 70 MPa.

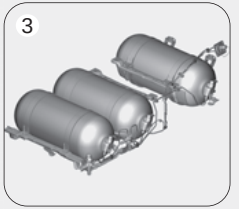
❊ FCEV is Fuel Cell Electric Vehicle

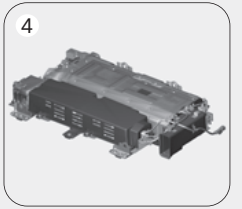
THE COMPONENTS OF FCEV









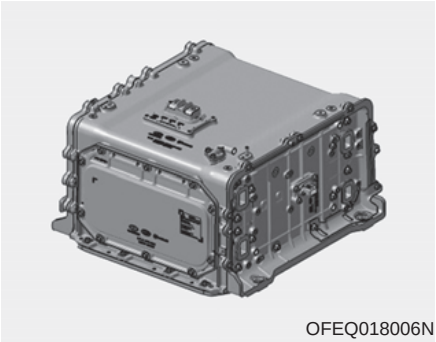


(1) Fuel Cell system
(2) Traction motor system
(3) Hydrogen Tanks
(4) Battery System

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THE COMPONENTS OF FCEV (CONT.)

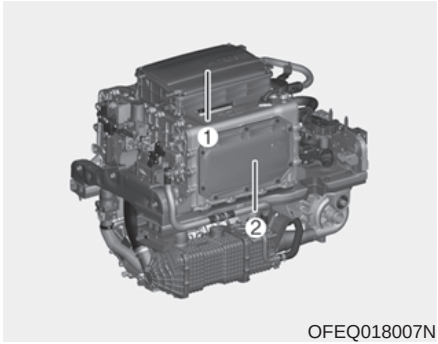
1. Fuel cell stack



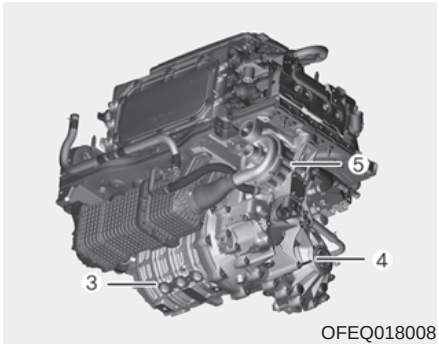
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A fuel cell stack is a device that converts the chemical energy into electricity thorough a chemical reaction with hydrogen and oxygen. Fuel cell is different from battery in that it requires hydrogen and oxygen constantly in order to operate. And it can produce electricity continually for as long as hydrogen and oxygen are supplied. A fuel cell stack is composed of many unit cells to obtain the desired power for a vehicle.

2. FCEV powertrain



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OFEQ018008

1. High voltage junction box
2. Fuel cell stack
3. Traction motor
4. Reduction gear
5. Air compressor

The main components of FCEV are Fuel cell stack, air processing system, fuel processing system, thermal management system, hydrogen storage tanks, high voltage battery, DC-DC converter, inverter and traction motor, gear differential unit.

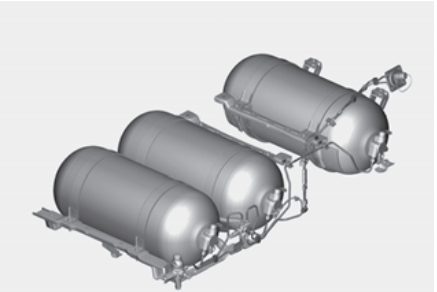
The Air compressor supplies air to fuel cell system and the hydrogen storage tanks supplies hydrogen fuel to fuel cell system. Then the electric energy comes from the fuel cell system.

The electric energy deliveried to the motor inverter. The energy finally moves to motor operating.

⚠ WARNING

If you assemble or disassemble the stack and fuel cell system, hydrogen may leak resulting in fire and this may lead to accidents. Never assemble or disassemble the stack and fuel cell system.

3. High pressure hydrogen storage tanks

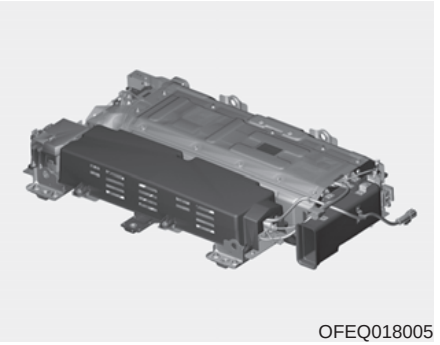


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Compressed hydrogen tank system is composed of three tanks which are filled with hydrogen gas in a gas station. Each tank is made of plastic liner for blocking the hydrogen permeation and carbon fiber layer sustain high pressures.

There are main parts to supply hydrogen stably and to enable safety such as magnetic valves, pressure regulator, pressure sensors, pressure relief valve, excess flow valve and so on. The hydrogen in the tanks comes into the pressure regulator which has a pressure sensor.

4. Battery system



OFEQ018005

A 12 V battery integrated with the low and high voltage batteries is installed in the vehicle. The battery supplies the electricity required for driving the vehicle and stores the energy generated from the regenerative braking. When the vehicle accelerates the auxiliary power of the fuel cell supplies the energy. The vehicle can drive about 2 miles (3 km) in EV mode until the high voltage battery is discharged.

High voltage cables

The electric energy which is generated from fuel cell system or high voltage battery module is distributed to the various components. Most of the cables are located in the inside or bottom of the components. These cables use orange colored cover to distinguish from other lines. It is required to handle the cables carefully with isolation gloves.

Disconnecting negative (-) battery cable


OFEQ018009

1. Fold up the luggage board of the liftgate.
2. Disconnect the negative (-) connector.

Hydrogen gas detection sensors

They detect a hydrogen leak and informs a warning of hydrogen leak to a driver. As informing a warning, the sensors automatically shut off hydrogen. Sensors are installed around the hydrogen storage tanks and FCEV system module.

These sensors prevent a hydrogen leak in an emergency. Even if the hydrogen leak occurs, the Fuel cell electric operating does not active. The system operating is changed to EV (Electric vehicle) mode and you may drive the vehicle about 2 miles (3 km). However, we recommend that you stop the vehicle to the safety place and contact an authorized HYUNDAI dealer.

⚠ WARNING

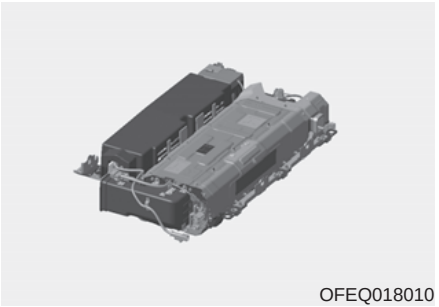
Never touch orange or high voltage labeled components including wires, cables, and connections.

If the insulators or covers are damaged or removed, severe injury or death from electrocution may occur.

⚠ WARNING

In the fuel cell system, the battery uses high voltage to operate the motor and other components.

This high voltage battery system can be very dangerous. Never touch the system. If you touch the battery system, serious injury or death may occur.



OFEQ018010

⚠ WARNING

- **Do not disassemble or assemble the high voltage battery system. Doing so may result in electric shock causing death or serious injury.**
- **If you disassemble or assemble system components improperly, it may damage the performance and reliability of your vehicle.**
- **If coolant and electrolyte come in contact with your body, clothes or eyes, immediately flush with a large quantity of fresh tap water. Have your eyes examined by a doctor as soon as possible.**

⚠ WARNING

Never assemble or disassemble the high voltage battery system.

- **If you assemble or disassemble the high voltage battery system, the durability and performance of the vehicle may be damaged.**
- **When you want to check the high voltage battery system, contact an authorized HYUNDAI dealer.**
- **Do not touch the high voltage battery and high voltage cable connected to motor (orange color). Severe burns and electric shock may occur. For your safety, do not touch the cover of electronic components and electronic cable. Do not remove the cover of electronic components and electronic cable. In particular, never touch the high voltage battery system when the FCEV system is operating. It may result in death or serious injury.**

⚠ WARNING

- **Never use the package modules (high voltage battery, inverter, converter) for any other purpose.**
- **Do not use an after-market battery charger to charge the high voltage battery. Doing so may result in death or serious injury.**
- **Never get near or put a high voltage battery system in a fire. Doing so may result in serious burns.**
- **Never drill into, strike or otherwise damage the package modules. An electric shock may occur resulting in serious injury or death.**

⚠ CAUTION

- When the vehicle is paint baked, do not pass 30 minutes in 158°F (70°C) or 20 minutes in 176°F (80°C) degree.
- When you clean the fuel cell power module compartment, do not wash using water. Water may cause an electric shock to occur and damage electronic parts and components.

⚠ WARNING

This vehicle uses the high voltage battery system to generate high voltage.

High voltage in the battery system is very dangerous and can cause severe burns and electric shock. This may result in serious injury or death.

- For your safety, never touch, replace, dismantle or remove the high voltage battery system including components, cables and connectors.

  Severe burns or electric shock may result in serious injury or death if you do not follow this warning.
- When the high voltage battery system operates, the battery system can be hot. Always be careful because burns or electric shock may be caused by high voltage.
- Do not drop water or liquid on to Fuel cell power module compartment. The system components are covered. If you drop water or liquid on to system components, it may result in electric shock.

⚠ WARNING

- Do not assemble or disassemble the hydrogen tanks. Improper work may damage the performance and reliability and unexpected problem may occur. For hydrogen tanks work, contact an authorized HYUNDAI dealer.
- Never drill into, strike or otherwise damage the hydrogen tanks. Unexpected problem may occur resulting in serious injury and death.
- Never get near or put a hydrogen tanks in a fire. Doing so may result in big injury.
- Never use the hydrogen tank for any other purpose.

Service plug



OFEQ018011

⚠ WARNING

Never touch the service plug under the rear seat.

The service plug is attached to the high voltage battery system.

Touching the service plug will result in death or serious injury.

Service personnel should follow procedures in service manual.

⚠ CAUTION

The FCEV system contains many electronic components. High voltage components like cables and other parts may emit electromagnetic waves. Even if the electromagnetic cover blocks electromagnetic emissions, electromagnetic waves may have an effect on electronic appliances. If you park the vehicle for a long time, the high voltage battery or 12V battery will discharge. You need to drive the vehicle several times per month. We recommend driving at least 10 minutes or 2 miles (3 km) when you drive the vehicle.

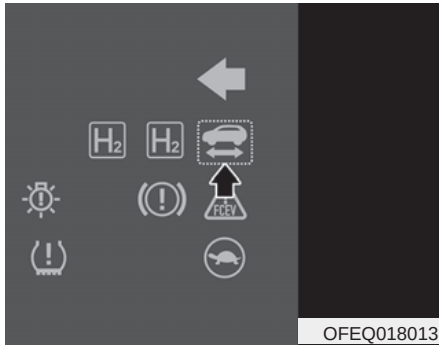
If the high voltage battery is discharged and if it is impossible to jump start the vehicle contact your HYUNDAI dealer.

⚠ WARNING

- **When you start the FCEV system in the "P" or "N" gear position, the "Ready ( )" indicator is illuminated in the cluster. The driver can drive the vehicle.**
- **When you leave the vehicle, you should turn off the system or shift into the "P" position. If you depress the accelerator pedal by mistake and the vehicle is not in the "P" position, the vehicle will move abruptly. This may result in serious injury or death.**

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 POWER button.



OFEQ018013

8. When the "" indicator is ON, you can drive the vehicle.
   When the "" 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.

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 Power button and turn off the vehicle.
5. Check if the "" indicator is turned OFF on the instrument cluster.

   When the "" indicator is ON and the gear is in a position other than P (Park), the driver can accidently 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 FCEV vehicle is operating.

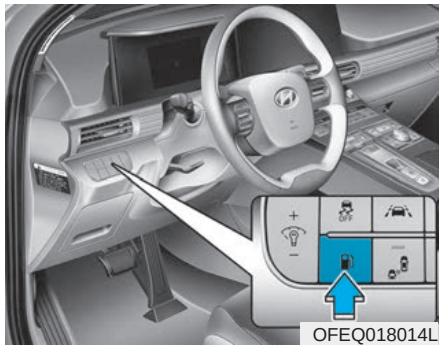
- If the vehicle is in the ready () mode and the gear is not in P (Park),
- When the gear is shifted to R (Reverse), an additional warning sound will be heard.

⚠ 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.**

Fuel filler door

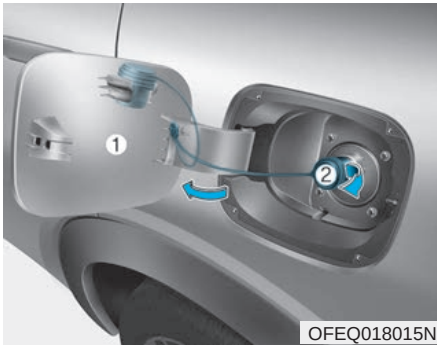
Opening the fuel filler door


OFEQ018014L

1. Turn the vehicle off.
2. Push the fuel filler door opener button.

NOTICE

- **The fuel filler door does not open if the vehicle is not off.**
- **The fuel filler door may open after several seconds from turning off the vehicle. However, in cold weather, the fuel door may not open for about 45 seconds until the cluster message "Powering down..." disappears. This is for protecting the fuel cell system.**



OFEQ018015N

3. Pull the fuel filler door (1) out to fully open.
4. Pull the fuel filler cap (2).
5. Place the cap on the fuel filler door.

Information

If the fuel filler 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. Do not pry on the door. If necessary, spray around the door with an approved de-icer fluid (do not use radiator anti-freeze) or move the vehicle to a warm place and allow the ice to melt.

⚠ WARNING

- **According to the hydrogen fueling station condition the hydrogen may not be filled fully and the driving distance may change accordingly. The hydrogen may not be charged fully if the fueling station does not satisfy the fueling method specified in the fueling. standard (SAE J2601) or if the hydrogen is not enough in the station, the fueling facility has failure, etc.**
- **Depending on the remaining hydrogen in the vehicle and ambient temperature, the time required for fueling may vary. More time may be required for fueling if the remaining hydrogen level is low and the weather is hot. Also, required time may be longer if the hydrogen cooling temperature of the fueling station is high.**
- **The distance to empty may vary depending on the driving environment (weather, traffic, etc.) and driving method (rapid acceleration, heating and air conditioning, etc.).**

Closing the fuel filler door

1. Cover the fuel filler with the cap.
2. Close the fuel filler door until it is latched securely.

⚠ WARNING

- **If the fuel filler cap requires replacement, use parts for replacement from an authorized Hyundai dealer. An incorrect fuel filler cap can result in a serious malfunction of the fuel system. Contact an authorized HYUNDAI dealer for replacement.**
- **If the fuel filler door is not completely closed, the vehicle is not turned on. Close the fuel filler door and turn on the vehicle.**

⚠ WARNING

Refueling dangers

Automotive fuels are flammable materials. When refueling, please note the following guidelines carefully. Failure to follow these guidelines may result in severe personal injury, severe burns or death by fire or explosion.

- **Read and follow all warning posted at the gas station facility.**
- **Before touching the fuel nozzle, you should eliminate potentially dangerous static electricity discharge by touching another metal part of the vehicle, a safe distance away from the fuel filler neck, nozzle, or other gas source.**
- **Do not get back into a vehicle once you have begun refueling since you can generate static electricity by touching, rubbing or sliding against any item or fabric (polyester, satin, nylon, etc.) capable of producing static electricity. Static electricity discharge can ignite fuel vapors resulting in rapid burning. If you must reenter the vehicle, you should once again eliminate potentially dangerous static electricity discharge by touching a metal part of the vehicle, away from the fuel filler neck, nozzle or other gasoline source.**
- **Do not use cellular phones while refueling. Electric current and/or electronic interference from cellular phones can potentially ignite fuel vapors causing a fire.**
- **When refueling, always shut the power off. Once refueling is complete, check to make sure the fuel filler cap and fuel filler door are securely closed, before starting the vehicle.**
- **DO NOT use matches or a lighter and DO NOT SMOKE or leave a lit cigarette in your vehicle while at a gas station especially during refueling. Automotive fuel is highly flammable and can, when ignited, result in fire.**
- **If a fire breaks out during refueling, leave the vicinity of the vehicle, and immediately contact the manager of the gas station and then contact the local fire department. Follow any safety instructions they provide.**

Warning and indicator lights



OFE048100N

1. Power gauge
2. Speedometer
3. Fuel cell stack temperature gauge
4. Fuel gauge
5. Odometer/LCD display/Trip computer
6. Warning and indicator lights

	Air bag warning		Charging system warning	OFF	Electronic Stability Control (ESC) OFF indicator		Forward Collision-Avoidance Assist (FCA) system warning
	Seat belt warning		Low fuel level warning		Immobilizer Indicator		
BRAKE	Parking brake & brake fluid warning		Low tire pressure warning		Turn Signal Indicator	EPB	Electronic Parking Brake (EPB) warning
Yellow	Regenerative brake warning	FCEV	Service warning		High Beam Indicator	AUTO HOLD	AUTO HOLD Indicator
ABS	Anti-lock brake system (ABS) warning		Power down warning		Light ON Indicator		Master Warning
ABS	Electronic Brake force Distribution (EBD) warning	H_2	Hydrogen gas leak warning (Red)		Ready indicator		LED Headlamp warning
BRAKE		H_2	Hydrogen leak sensor warning (Yellow)		Lane Keeping Assist (LKA) system indicator		
	Electric Power Steering (EPS) warning		Electronic Stability Control (ESC) indicator				

✻ For more details, refer to the 'Instrument cluster' in Chapter 3.

LCD Display Messages

▶ Check FCEV System

This warning message is displayed and the warning light illuminates when the FCEV system is not working properly.

In this case,have the vehicle checked by an authorized HYUNDAI dealer.

▶ Power limited due to high coolant temperature

This warning message is displayed when the FCEV's stack is overheated and the power supply to the FCEV system is limited.

If the warning light stays on when in "Ready ( )" state or while driving the vehicle, this indicates that the fuel cell stack may have failure. In this case, we recommend you to drive safely and have your vehicle inspected by an authorized HYUNDAI dealer.

⚠ CAUTION

Do not drive on uphill or accelerate suddenly when the power down warning light is on. The power is limited and may result in dangerous situation or vehicle damage.

▶ Replace fuel cell coolant and filter

This warning message is displayed when the fuel cell coolant and filter need to be checked.

In this case, have the vehicle checked by an authorized HYUNDAI dealer.

▶ Refill electric components coolant

This warning message is displayed when the electronic device's coolant level in the tanks is low.

In this case, have the vehicle checked by an authorized HYUNDAI dealer and refill the coolant.

▶ Stop vehicle and check power supply

This warning message is displayed when any serious malfunction of the vehicle is detected.

In this case, drive the vehicle immediately to a safe area and turn off the vehicle. Then turn the vehicle on again.

If the message is displayed again, have the vehicle checked by an authorized HYUNDAI dealer.

▶ Close fuel door before turning vehicle On

This warning message is displayed when you turn on the vehicle with the fuel filler door open. Close the fuel filler door and turn on the vehicle again.

▶ Hydrogen tank overfilled due to hydrogen station error

This warning message is displayed when the hydrogen tank is over-refueled with the hydrogen due to a problem of the fueling station.

Turn off the vehicle and then turn on the vehicle. If the message is displayed again, have the vehicle checked by an authorized HYUNDAI dealer.

▶ Small hydrogen leak possible

This warning message is displayed when the minor hydrogen leakage is detected in the vehicle. In this case, have the vehicle checked by an authorized HYUNDAI dealer.

If the vehicle has to be stopped due to the leakage, hydrogen gas leak warning light (red) will illuminate and 'Hydrogen leak detected. Stop safely immediately.' message is displayed.

▶ Power limited due to low hydrogen tank temperature

This warning message is displayed to protect the battery and fuel cell system when the temperature of the hydrogen tanks is low.

If this message is still displayed after the ambient temperature has increased enough, have the vehicle checked by an authorized HYUNDAI dealer.

▶ Hydrogen tank temperature out of range! Stop safely immediately

This warning message is displayed to protect the hydrogen tank system when the temperature of the hydrogen tank is too high or too low.

Turn off the vehicle and stop to let the temperature of the hydrogen tank go down.

⚠ WARNING

If this message is still displayed after the vehicle is turned off and stopped for a sufficient time, we recommend you to stop driving and have your vehicle immediately inspected by an authorized HYUNDAI dealer.

▶ Hydrogen leak detected. Stop safely immediately

This warning message is displayed and the hydrogen gas leak warning light (red) illuminates when the hydrogen leakage is detected in the vehicle. In this case, we recommend you to stop driving and stop the vehicle immediately at a safe area. Then turn off the vehicle and have your vehicle inspected by an authorized HYUNDAI dealer.

▶ Check hydrogen leak sensor

This warning message is displayed and the light showing the malfunction of the hydrogen leakage detection sensor illuminates when there is a malfunction with the hydrogen leakage detection sensor. In this case, have the vehicle checked by an authorized HYUNDAI dealer.

▶ Refueling…

This warning message is displayed while refueling the vehicle. Do not turn on the vehicle and wait until the refueling is complete.

▶ Check fuel door sensor

This warning message is displayed when there is a malfunction with the sensor located below the fueling inlet which is used for communicating with the fueling station. Check and remove if there is any foreign substance around the fueling inlet.

If this message is still displayed after the foreign substance is removed, have the vehicle checked by an authorized HYUNDAI dealer.

▶ Open fuel door after turning vehicle Off

This warning message is displayed when you try to open the fuel filler door while the vehicle is turned on.

Turn of the vehicle and open the fuel filler door. If the message is still displayed after a while, have the vehicle checked by an authorized HYUNDAI dealer.

▶ Replace hydrogen tank. Maximum number of refill cycles exceeded

This warning message is displayed when the number of times refueling the vehicle exceeds the predefined number (4,995 times). The fuel cell system stops operation for safety even if the vehicle is refueled enough and when there is no problem with the vehicle. In this case, have the hydrogen storage system replaced by an authorized HYUNDAI dealer.

▶ Power limited due to fuel cell system error

This warning message is displayed when there is a malfunction with the fuel cell system and the power supply to the fuel cell system is limited.

If the warning light stays on when in "Ready ( )" state or while driving the vehicle, this indicates that the fuel cell system may have failure. In this case, have the vehicle checked by an authorized HYUNDAI dealer.

▶ Check fuel cell system! Stop safely immediately

This warning message is displayed when any serious malfunction of the fuel cell system is detected.

In this case, immediately park the vehicle at a safe area and turn off the vehicle. Then turn the vehicle on again.

If the message is displayed again, have the vehicle checked by an authorized HYUNDAI dealer.

▶ Unable to start vehicle! Check high voltage system

This warning message is displayed when there is a malfunction with the high voltage system.

If the vehicle will not turn on, have the vehicle checked by an authorized HYUNDAI dealer.

▶ Unable to start vehicle. Hydrogen too low

This warning message is displayed when the fuel is empty and the vehicle is not turned on. The vehicle will not turn on and we recommend that you have your vehicle inspected by an authorized HYUNDAI dealer.

▶ Check FCEV System! Stop and turn vehicle Off

This warning message is displayed when there is a temporary malfunction with the FCEV system. Stop the vehicle at a safe area and turn off the vehicle. Then turn on the vehicle after a while. If the message is displayed again, have the vehicle checked by an authorized HYUNDAI dealer.

▶ Check 12V battery. Stop safely and engage parking brake

This warning message is displayed when the voltage of the auxiliary battery is low. Stop the vehicle at a safe area and turn off the vehicle. Then turn on the vehicle after a while. If the message is displayed again, have the vehicle checked by an authorized HYUNDAI dealer.

▶ Low fuel

This warning message is displayed when you need to refuel the vehicle. Refuel the vehicle immediately at a nearby fueling station.

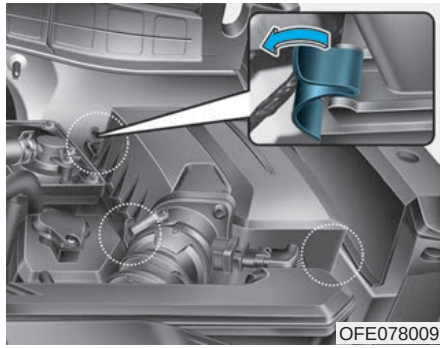
▶ **Air filter blocked. Check filter or see owner's manual**

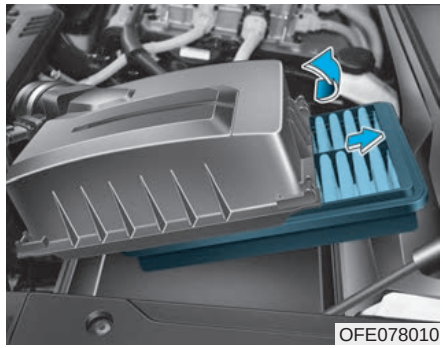
This warning message is displayed when

- the snow may block the air cleaner filter after driving the vehicle in heavy snow when the ambient temperature is below 50°C (10°F) or
- the exhaust pipe may be frozen and clogged when the vehicle is parked for a long time with the vehicle ON below 50°C (10°F).

In this case, remove the snow from the inside of the air cleaner filter and turn on and off the vehicle. If the warning message is displayed again, the exhaust pipe may be blocked. Then, move your vehicle indoors and leave it inside more than one day to defrost the exhaust pipe.

If the warning message is displayed again, have the vehicle checked by an authorized HYUNDAI dealer.


OFE078009


OFE078010

FCEV mode

Entering FCEV Mode



OFEQ018017N

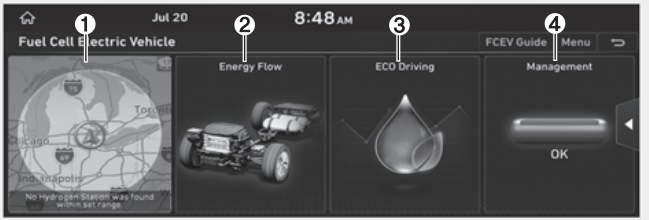


OFEQ018018N

If you select the "FCEV" menu in the AVN home screen or the "FCEV" in the menu, you can enter the FCEV mode.

For details on FCEV Mode, refer to the navigation manual that is provided separately.

FCEV Mode Menu Screen



OFEQ018019N

1. Reachable Range: It shows the reachable range on the map.
2. Fuel cell monitoring: It shows the battery information and the power transmission flow between the components.
3. ECO Driving: It shows the fuel efficiency information and environmental contribution.
4. Management : It shows the status of hydrogen tank (warning alert) and 'FCEV Route' setting.

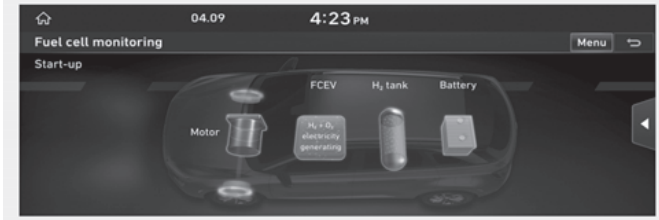
Reachable Range



OFEQ018020N

You can check the reachable range on the screen

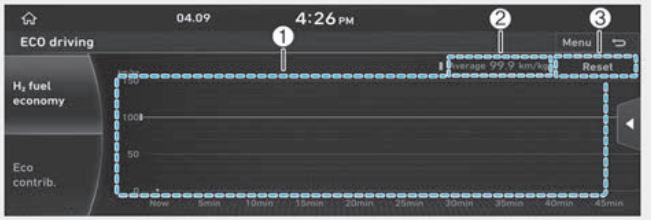
Fuel cell monitoring



OFEQ018021L

You can check the FCEV's Start-up status, battery information and power transmission flow between the components.

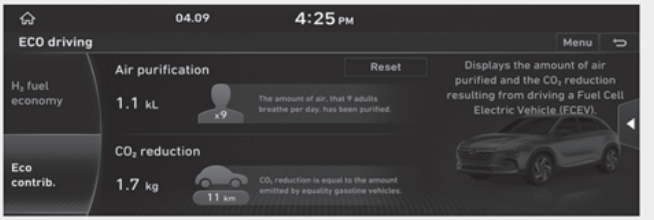
Hydrogen fuel economy



OFEQ018022L

1. Fuel Efficiency Graph: It shows fuel efficiency information of the last 45 minutes.
2. Average Fuel Efficiency (MPGe): It shows the average fuel efficiency.
3. Initialization: It initializes the fuel efficiency graph information.

ECO contribution



OFEQ018023N

You can check the amount of purified air and CO2 reduction rate.

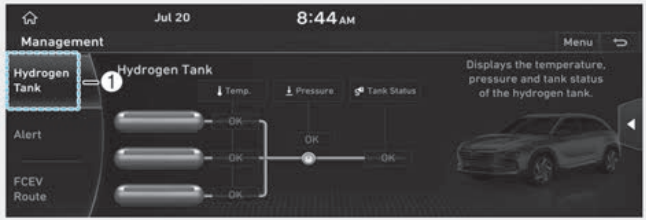
- Air purification

  It shows the amount of air that adult(s) breathe(s) per day is purified

- CO2 reduction

  It shows that the same amount of CO2 exhausted by an equal class gasoline vehicle is reduced.

Management



OFEQ018024N



OFEQ018025N



OFEQ018026N

1. Hydrogen Tank : It shows the temperature, pressure and status of the hydrogen tank while driving.
2. Warning [Destination unreachable warning]

   You can set to have the warning pop up when the vehicle cannot reach the destination with the current remaining hydrogen fuel.
3. FCEV Route [Display FCEV Route Bar on Map]

   You can set to indicate the FCEV route and reachable range on the map screen.

When the high voltage battery is weak

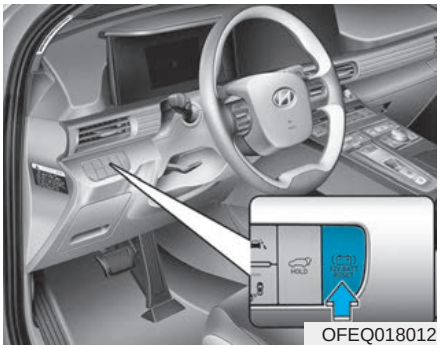
When the high voltage battery is weak due to driving on a hill for a long time or accelerating and decelerating the vehicle repeatedly, the acceleration performance may be lower than usual. In this case, be cautious not to overtake other vehicles.

If the 12 volt battery is discharged

This vehicle does not have a regular 12V battery that needs periodic replacement. It is lithium ion polymer type integrated into the high voltage battery. The vehicle has a 12V battery protection system that cuts 12V battery from vehicle draw to prevent full discharge.

If the 12V battery is discharged, you should try charging it by pressing the "12V BATT RESET" button.

Using the 12V battery reset switch


OFEQ018012

1. Press the 12V Battery Reset switch to reconnect the 12V battery.
2. Start the vehicle within 15 seconds of pressing the 12V Battery Reset switch.
3. After starting vehicle (indicator on), move the vehicle outside and keep the vehicle ready ( ) mode more than 30 minutes safely to charge the 12V battery.

If you do not start the vehicle immediately after pressing the 12V Battery Reset switch, the power of 12V battery is automatically disconnected after few seconds to save the 12V battery from additional discharge. If the 12V battery is disconnected prior to starting the vehicle, press the 12V Battery Reset switch again and then immediately start the vehicle as explained.

Repeated use of the 12V Battery Reset switch without a sufficient ON cycle (30 Min+) may cause over discharge of the 12V battery, which will prevent the vehicle from starting. If the 12V battery is over discharged to a point that the reset does not work, try to jump-start the vehicle.

Information

After starting the vehicle (indicator on), the 12V battery is being charged whether the accelerator pedal is depressed or not.

❋ For more details regarding the jump start, refer to the 'Jump staring' in Owner's manual Chapter 6.

Emergency while driving

If an accident occurs

1. Stop the vehicle, put the gear into the P (Park) position, set the parking brake, and turn the vehicle off to prevent the hydrogen and current from leaking.

   The flow of hydrogen into the fuel cell stack will be shut off to prevent the current from being generated.
2. Evacuate to the safety place.
3. Call emergency services for help and let them know the vehicle is a Fuel Cell Electric Vehicle.

If a fire occurs

1. Stop the vehicle, put the gear into the P(Park) position, set the parking brake, and turn the vehicle off to prevent the hydrogen and current from leaking.

   The flow of hydrogen into the fuel cell stack will be shut off to prevent the current from being generated.
2. If the fire is small, which can be extinguished with fire extinguisher, use carbon dioxide extinguisher. You can also extinguish the fire with water when the vehicle power is turned off.

⚠ WARNING

Do not use water to extinguish a fire when the vehicle power is turned on. Serious electric shock may result.

If the fire is too big to be extinguished with the fire extinguisher, evacuate from the vehicle, call the fire department, and let them know the vehicle is a Fuel Cell Electric Vehicle. Do not come close to the vehicle until the fire is totally extinguished.

Emergency venting of hydrogen gas

If the temperature near the safety valve located at the rear under vehicle is over 110°C caused by a fire or other reasons, the safety valve will open to vent hydrogen gas. Venting the hydrogen gas makes a loud noise because the venting speed is very fast. Stay well away from the vehicle. This jet stream of hydrogen gas could ignite.

If a submersion in water occurs

If your vehicle was flooded and has soaked carpeting or water on the flooring, you should not try to start the vehicle by pressing the POWER button.

Call an authorized HYUNDAI dealer.

If you have a flat tire while driving

If a tire goes flat while you are driving:

1. 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 a loss of control. 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.
2. When the vehicle is stopped, turn on your emergency hazard flashers, set the parking brake and put the gear into the P (Park) position.
3. 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.

If the vehicle stalls while driving

1. Reduce your speed gradually, keeping a straight line. Move cautiously off the road to a safe place.
2. Turn on your emergency flashers.
3. Try to start the vehicle again. If your vehicle will not start, contact an authorized HYUNDAI dealer.

If the vehicle stalls at a crossroad or crossing

If the vehicle stalls at a crossroad or crossing, set the gear in the N (Neutral) position and then push the vehicle to a safe place.

Exhaust pipe

The FCEV is driven by electricity which is generated when the oxygen in the air and the hydrogen in the vehicle is combined. The principle is the opposite of the electrolysis of water; the decomposition of water making hydrogen and oxygen.

The FCEV is emission-free and water is created when the hydrogen and oxygen reacts in the process of making the electricity. Some water may be discharged through the exhaust pipe when the vehicle is turned off after driving. This is normal but be careful in winter as the puddle made by the exhausted water may freeze resulting in accident.

Also, take cautious as the exhausted steam may reach the vehicle parked in the back when you turn off the vehicle in winter.

Hydrogen station

You can search the hydrogen fueling station and set the station as the destination in the AVN screen. Select 'Menu-Nearby POI' in the map screen and select 'Fuel stations' to see the list of stations. Set the nearest station as the destination. Check the station operation status and opening hours before visiting the station.

Fully refueling the vehicle may be impossible depending on the station condition and the reachable range may change accordingly.

Also, the refueling time may vary depending on the hydrogen fueling pressure and ambient temperature. The reachable range may change according to the driving environment (weather, traffic, etc.) and driving method (sudden acceleration, heating and air conditioning, etc.).

* Refueling the hydrogen gas must be done by the person who has completed the certification course and training related to the high-pressure gas. Self-refueling is prohibited.

CUSTOMER Q&A GUIDE

Category	Questions	Answers
Vehicle overview (10 items)	1. Does a Hydrogen Fuel Cell Electric Vehicle (FCEV) have similar performance to standard, non-electric vehicles?	FCEV performance characteristics are generally equivalent to standard vehicles, but with better noise control.
	2. If water floods the fuel cell power module compartment, due to heavy rain or flooding for example, will it have any effect on the vehicle?	Every component housed in the fuel cell power module compartment is designed to be waterproof through evaluation which meets the IP69K standard, so you don't have to worry about any potential faults or safety problems if water contacts the fuel cell. However, if the vehicle is fully flooded, have the vehicle checked by an authorized HYUNDAI dealer.
	3. When starting or stopping the vehicle, there's a noise. Is this noise cause for concern?	The sound you hear is normal. The noise emanates from the blower motor starting up to remove any residual water vapor in the fuel cell system. Also, when you turn on the vehicle you may hear a brief operation sound from the hydrogen storage system which is located on the back of the vehicle. This is a normal sound which is occurred when the system tries to balance the pressure between the hydrogen tanks.
	4. Is there a possibility that extremely cold weather can prevent vehicle startup?	In most instances, the vehicle can get startup in cold weather without any problems. However, the vehicle may not start if the vehicle is parked with the ignition off for over a week in cold temperatures. In this case, turn on the vehicle 2-3 times repeatedly. If you will not be turning on the ignition for more than a week in cold weather, it is recommended that you park the vehicle inside a building, if possible. Notice) In particular, make sure to park the vehicle indoor when the temperature is below -30°C. If the vehicle is parked outside for over 12 hours under such weather fuel cell components may be damaged. Also, avoid driving under such weather to prevent damaging the fuel cell components.

Category	Questions	Answers
Vehicle overview (10 items)	5. Why is there an engine noise at low speeds, even though there is no engine?	The noise is generated from the air compressor and cooling pump working to supply air to the fuel cell or it's from Virtual Engine Sound System (VESS).
	6. When turning on and off the vehicle in cold weather, there's a loud noise. Is this noise cause for concern?	When you turn on the vehicle or turn off the vehicle in cold weather, the air compressor removes the generated water inside the fuel cell system and the noise is generated during this process, which is normal. In this case, certain amount of water may drain through the vehicle bottom and exhaust pipe.
	7. Why does a noise emanate when the vehicle moves in reverse?	Normally, the noise is a result of the Virtual Engine Sound System (VESS) working when the FCEV runs at low velocity (1~12 mph (1~20 km/h)) after shifting to D or N. However, when shifting to R, the VESS operates immediately, regardless of vehicle speed. In addition, a separate warning chime will sound to have the pedestrian aware of the approaching vehicle.
	8. The FCEV is equipped with a reduction gear but no transmission. What makes it different from standard vehicles?	The transmission of standard vehicles delivers power as conditions require via multiple transmission gears. However, the reduction gear of the FCEV is designed to deliver power by reducing the motor's RPM as operating conditions dictate, or to move backwards by reversing the rotational direction of the shaft.

CUSTOMER Q&A GUIDE (CONT.)

Category	Questions	Answers
Vehicle overview (10 items)	9. Can driving on test roads or over speed bumps damage the high voltage battery and hydrogen tank?	The high voltage battery and hydrogen tank are unlikely to be damaged under normal driving conditions. However, if the system begins to malfunction due to a direct and serious vehicular impact, you are informed of those system errors via warning lights on and the LCD display. • Service warning light : 
	10. A water-like liquid is being discharged from the muffler and bottom of the vehicle. Is it harmful to humans?	Water or vapor discharged is generated from electrochemical reactions in the fuel cell stack, and is not harmful to humans. However, liquids generated from the reactions can be somewhat acidic, so DO NOT touch or ingest the liquid! Also, the water discharged when parking the vehicle indoor may make a puddle on the floor. Be careful as such puddle can freeze and result in accident during winter.

Category	Questions	Answers
Vehicle Management (12 items)	11. Can I wash my FCEV with pressurized water? What if water flows into the fuel cell power module compartment?	Every component housed in the fuel cell power module compartment is designed to be waterproof like those found in standard vehicles. Therefore, a short circuit of the FCEV cannot happen while washing the car. However, your FCEV works by utilizing high-voltage electric power, so it is recommended that you avoid high-pressure car washes. If the insulation resistance of the FCEV deteriorates due to car wash, a High voltage warning light may turn on the cluster. • Service warning light : 
	12. When washing the fuel cell power module compartment, is there any potential risk of electric shock resulting from a high-voltage short circuit?	The FCEV is designed to be a waterproof structure, but please avoid washing the inside of the compartment if possible. Because there are many high voltage parts in the power module compartment.
	13. Can I wash the bottom of the vehicle? If yes, what should I be aware of?	The FCEV is designed to be a waterproof structure, but please avoid washing the botttom of the vehicle if possible. Because there are high voltage cables in the under cover.
	14. Can driving with a tire chain affect the drive motor?	Driving with a tire chain causes no direct damage to the drive motor.
	15. How should I jump start the vehicle?	Try charging it by pressing the "12V BATT RESET" button first. Refer to the "If the 12 volt battery is discharged" in this guide book. It it doesn't work, refer to the "Jump starting" in the Owner's manual chapter 6.

CUSTOMER Q&A GUIDE (CONT.)

Category	Questions	Answers
Vehicle Management (12 items)	16. Does the FCEV use a different coolant type from that of standard vehicles? (Difference between Stack cooling coolant and Device cooling coolant.)	Stack cooling coolant is an exclusive coolant for the fuel cell, which is characterized by its use of a non-ionic anti-corrosion agent (an additive) and very low electric conductivity. In comparison, the device cooling coolant is a coolant similar to that used in standard vehicles and has a very high electric conductivity. If the stack cooling coolant is used with the electrical cooling system, it will corrode the electrical system parts. If the device cooling coolant is used with the fuel cell cooling system, it will damage the system insulation resistor due to high electric conductivity. This carries the additional risk of shocking the driver (electric shock).
	17. What should I be aware of when parking the vehicle? Can I park the FCEV in an enclosed underground parking lot? (Risk of hydrogen gas leak.)	Hydrogen gas supply is cutoff after Power-OFF to prevent the hydrogen gas from leaking.
	18. If the FCEV will be parked for a long period, what should I do?	For long-term parking situations, a high-voltage battery will gradually lose its charge [low SOC(State Of Charge)], potentially causing ignition failure. 1. In order to minimize the discharge of the high-voltage battery, turn off the power using the POWER button and disconnect the (-) terminal of the auxiliary battery (12 V) from the vehicle. 2. To recharge the high-voltage battery, it is recommended that you drive your FCEV two or three times a month, for no less than 10 minutes or 2 miles (3 km) during each session. 3. If the vehicle does not startup, press the "12V BATT RESET" button or jump start the vehicle. Otherwise contact an authorized HYUNDAI dealer.

Category	Questions	Answers
Vehicle Management (12 items)	19. What are the do-it-yourself (DIY) maintenance items for the FCEV?	DIY Check: Device cooling coolant, Stack cooling coolant, Brake Fluid, Tire and Wheels DIY Maintenance: Washer fluid, Air cleaner, Climate control air filter, Wiper blades, Fuse, Light bulb
	20. What should I be aware of when doing DIY maintenance work?	Be careful not to touch the high-voltage cable (orange color), coolant, and ion filter.
	21. Tell me what the potential effects are of parking long-term in a cold area (-4 °F (-20 °C)) for the FCEV, and whether or not the vehicle can startup under such conditions.	In most instances, the vehicle can get startup in cold weather without any problems. However, the vehicle may not start if it is parked with the power off for over a week in cold temperatures. In this case, If you will not be turning on the vehicle for more than a week in cold weather, it is recommended that you park the vehicle inside a building, if possible.
	22. What parts must I not touch with hands? For example, high-voltage cable, ion filter, etc.?	High-voltage cable (orange color), ion filter, parts with a high voltage warning sticker. Also, never touch the hydrogen storage system under the liftgate, the hydrogen supply pipe under the vehicle and the hydrogen supply system components on the right side (based on the driver's position) of the hood.

CUSTOMER Q&A GUIDE (CONT.)

Category	Questions	Answers
Cluster/ Warning Lamp (9 items)	23. What shall I do if the hydrogen gas leak warning light turns on on the cluster?  (Red)	If the hydrogen gas leak warning light turns on during "READY" status or in driving mode, this indicates a hydrogen gas leak inside the vehicle. DO NOT lose your composure. Park your vehicle and turn OFF the vehicle. Then, we recommend that you contact an authorized HYUNDAI dealer for service.
	24. Can I keep driving the vehicle even if the hydrogen gas leak warning light turns on on the cluster?  (Red)	The fuel cell stops working if hydrogen is no longer available. However, the FCEV can run for an additional distance (About 2 miles (3 km)) in EV mode where the vehicle runs only on battery power. Mileage in EV mode can vary depending on the "state of charge" (SOC) of the high voltage battery, so move your vehicle to the nearest shoulder on the road. Then, we recommend that you contact an authorized HYUNDAI dealer for service.
	25. While driving to a service center after the hydrogen gas leak warning light turns on on the cluster, is it possible that the vehicle catch fire if there is something nearby to ignite the leaking gas (cigarette butt, etc.)?  (Red)	As soon as the hydrogen gas leak warning light appears, the fuel cell operation is disabled immediately to cut the supply of hydrogen. This prevents the possibility of a fire occurring.
	26. What should I do if a power down warning light turns on? 	If the power down warning light turns on during "READY" status or in driving mode, power supply to the fuel cell system is cut off. If the warning light turns on repeatedly when restarting the vehicle after parking your car on the safe place, we recommend that you contact an authorized HYUNDAI dealer for service.

Category	Questions	Answers
Cluster/ Warning Lamp (9 items)	27. What should I do if the service warning light turns on? 	If the service warning light turns on during "READY" status or in driving mode, it may indicate a malfunction in operation with any fuel cell system. We recommend that you contact an authorized HYUNDAI dealer for service.
	28. What should I do if the master warning light turns on? 	If the service warning light turns on when there is a malfuction in operation in any of the vehicle systems. Please look at the LCD display for details and we recommend that you contact an authorized HYUNDAI dealer for service if needed.
	29. How much farther (roughly) can I drive my FCEV when the fuel warning light turns on? (Remaining mileage)	You can continue driving for an additional 40~55 miles (70~90 km). It may depend on driving mode.
	30. When restarting the vehicle, the "  " indicator turns on on the cluster. What does this mean?	It means that the fuel cell system is working in good order and your car is ready to drive.
	31. Why does the vehicle's hydrogen tank have a life expectancy?	The hydrogen tank is frequently refueled with the high pressure hydrogen gas and the number of times refueling the vehicle is limited to 5,000 times (or 15 years). The hydrogen storage system counts the number of times the vehicle is refueled and turns on the warning light when the vehicle is refueled for over 4,995 times. Every time the vehicle is turned on the warning message "Replace hydrogen tank. Maximum number of refill cycles exceeded" is displayed on the cluster. The vehicle can be driven about 1-3 million kilometers until the vehicle is refueled 5,000 times, meaning that the hydrogen tank is used semi-permanently under common driving condition.

CUSTOMER Q&A GUIDE (CONT.)

Category	Questions	Answers
Hydrogen System (7 items)	32. What happens if hydrogen in the hydrogen tank is completely consumed?	The fuel cell stops working if hydrogen is no longer available. However, the FCEV can run for an additional distance (About 2 miles (3 km)) in EV mode where the vehicle runs only on battery power. Mileage in EV mode can vary depending on the "status of charge" (SOC) of the high voltage battery, so move your vehicle to the nearest shoulder on the road. Then, we recommend that you contact an authorized HYUNDAI dealer for service.
	33. If the hydrogen gas tank is fully refueled, how much farther can the FCEV run?	It can travel as far as 300~370 miles (500~600 km) at a constant vehicle speed of 50 mph(80 kph). Realistically though, this travel distance is shorter due to normal acceleration and deceleration when driving.
	34. Which mechanism allows for the hydrogen gas tank to be refueled, and is it possible to refuel the tank as much as you need? Is it possible that the tank may not be fully refueled?	The tank is refueled by utilizing the difference in hydrogen pressure between the refueling station and the vehicle. When refueling, the hydrogen gas pressure of the refueling station is higher than that of the vehicle. The act of refueling can be stopped as desired. Normally, the gas tank is not fully refueled with hydrogen if the station's hydrogen pressure is not sufficiently high, or if the station system cannot communicate with the vehicle. ❉ System and the vehicle communicates the temperature and pressure of hydrogen gas via wireless network.

Category	Questions	Answers
Hydrogen System (7 items)	35. In the beginning, when driving the new vehicle, I hear hissing sounds regularly from the hood while the vehicle is stopped. Is this noise cause for concern?	In the beginning, the purity of hydrogen in the hydrogen tank of the new vehicle may be somewhat low. It is a normal noise which occurs when the system discharges the hydrogen more frequently compensating the low hydrogen purity. The fuel efficiency of the new vehicle may be low in the beginning due to the frequent hydrogen discharge. However, this is a normal condition. In general, the hydrogen purity returns to normal range after refueling 3-4 times.

Category	Questions	Answers
Hydrogen System (7 items)	36. How should I refuel the tank with hydrogen gas? And what should I take care of?	* Close the fuel cap and fuel filler door firmly. * The gas tank may not be fully filled depending on the conditions of the hydrogen station. * Carefully read any precautions about refueling at hydrogen gas stations. * Be careful not to cause static electricity when touching the fuel filler with your hand. (To avoid static electricity, be sure to touch your bare hand on something metallic as far from the fuel filler as possible.) * DO NOT get out of, or go into, your car while the gas tank is being refueled. * DO NOT use any mobile device. Fire may occur due to electric current / radio wave from the mobile device. * Make sure that the fuel cell system stops working before refueling the gas tank. * DO NOT smoke a cigarette or strike a lighter while refueling the gas tank. * If you need assistance with refueling the gas tank after completely consuming all the available fuel in the vehicle, we recommend that you contact an authorized HYUNDAI dealer.

Category	Questions	Answers
Hydrogen System (7 items)	37. Is it possible that water, oil, etc. may be introduced to the hydrogen gas tank via the fuel filler? If yes, what do I need to do to prevent this?	Normally, water and oil cannot flow into the hydrogen tank via the fuel filler, but it can flow in while refueling. Be careful not to introduce any contaminants via the fuel filler.
	38. While refueling the hydrogen, I hear irregular abnormal noises. Is this noise cause for concern?	The hydrogen gas is in high pressure (70 MPa) condition when refueled to the vehicle's storage tank. Therefore, you will hear the sound of the gas flowing in the beginning. Abnormal noise is occurred due to the gas flow because of the difference in refueling pressure, etc. depending on the gas pressure condition at the refueling station and this is very normal.

CUSTOMER Q&A GUIDE (CONT.)

Category	Questions	Answers
Fuel Cell Stack/High Voltage Battery (4 items)	39. What happens if hydrogen gas leaks from the fuel cell stack?  (Red)	If hydrogen gas leaks beyond what's tolerable from the fuel cell stack, a hydrogen sensor installed in the system detects the leak and in response, turns ON the hydrogen gas leak warning light in the cluster.
	40. Can the fuel cell stack explode or burn out due to overheating?	The fuel cell stack passed a high temperature test and is deemed safe, so it is unlikely to explode.
	41. Which symptoms occur if the fuel cell system malfunctions?	If the fuel cell system malfunctions, warning lights specific to the actual problem appear on the LCD display. When this happens, the vehicle speed may be limited, or the fuel cell system may shut down. DO NOT lose your composure if this happens. Park your vehicle and turn OFF the vehicle. Then, we recommend that you contact an authorized HYUNDAI dealer for service.
	42. Is the recharge performance of the high voltage battery reduced depending on its length of use?	Like any vehicle component, the high voltage battery will decrease in performance as it ages over time. However, the high voltage battery of the FCEV is durable enough to work at peak performance beyond the warranty period.

Category	Questions	Answers
Vehicle Accidents/ Towing (5 items)	43. Is there a risk of electric shock from the high-voltage parts in the event of a collision or accident?	The FCEV is designed to detect impact events during a collision or accident so that the hydrogen gas supply is immediately cutoff. Also, the high-voltage relay is activated to cutoff the supply of electric power to the fuel cell stack and high-voltage battery. Moreover, the FCEV satisfies international electrical safety standards for collisions and accidents.
	44. Should I take any special safety precautions in the event of a collision or accident?	Despite the uniqueness of the hydrogen FCEV, you do not have to take any special safety precautions in the event of a minor collision or accident. In the event of a minor accident, turn off the vehicle to cutoff the supply of electric power and hydrogen gas. Also, the FCEV is equipped with collision sensors at the front and rear of the vehicle so those sensors are activated during an actual collision to automatically cutoff the supply of power and hydrogen to ensure driver and passenger safety. For other situations, follow the same procedures as you would with a standard vehicle. Depending on the severity of the collision or accident, take appropriate measures.
	45. Is a high-voltage battery designed to ensure occupant safety? Can it explode from a collision?	Our battery packs are designed to prevent any explosion due to physical impact or damage, and they fully satisfy international safety standards.

CUSTOMER Q&A GUIDE (CONT.)

Category	Questions	Answers
Vehicle Accidents/ Towing (5 items)	46. Is a hydrogen tank designed to ensure occupant safety? Can it explode from a collision?	The hydrogen tank is designed to prevent any risk of explosion. It is completely safe.
	47. How should the FCEV be towed, and what precautions should be taken?	The FCEV can be towed in the same manner as standard vehicles. If you need emergency towing, it is recommended that you contact an authorized HYUNDAI dealer. To avoid damage to the vehicle, you need to follow proper pulling and towing procedures. The FCEV is equipped with a front wheel drive (FWD) motor, so use a flatbed or wheel dolly to tow the vehicle. If the front wheels touch the road surface while being towed, they will rotate and this can cause the FWD motor to generate electricity. This can cause unwanted failure of the FCEV.

Category	Questions	Answers
Explosion or Fire (5 items)	48. What should I do if the FCEV catches fire?	1. stop driving the car. Move the shift to P (Park), then step on the brake to turn OFF the vehicle. The fuel cell stack is shut down, which cuts off the supply of hydrogen fuel. 2. If possible, open the windows to ventilate the air. 3. If the fire is small enough to get under your own control, use the fire extinguisher to put it out. If the fire is much larger, get out of your car and contact the local fire station to report your FECV is on fire. DO NOT get close to your car before the fire is completely extinguished.
	49. In case of vehicle fire, should I use the fire extinguisher? Can I use water to extinguish the fire?	In the event your FCEV catches fire with the power system OFF, the power source of the high-voltage system is cut off, so you are unlikely to get shocked while you put out the fire using water. (Even when the vehicle is submerged in water, there is no risk of getting shocked.) However, if your car catches fire with the ignition ON, you MUST use the fire extinguisher. Any attempt to extinguish the fire with water may cause electric shock.
	50. What kind of fire extinguisher should I use?	It is recommended that you use a dedicated fire extinguisher (CO2) for an electrical fire of the high-voltage system.
	51. Can the hydrogen tank explode if it overheats in very hot weather?	The hydrogen tank passed a high temperature test and is deemed safe, so it is unlikely to explode.
	52. In case of vehicle fire, is it possible that the hydrogen tank will explode?	In case of vehicle fire, a heat-sensitive safety valve is activated to exhaust the hydrogen gas downward from the tank by force. Therefore, the hydrogen tank is unlikely to explode. However, additional flames can flare up from the forced exhaustion of the gas, so please evacuate to a safe place far away from the vehicle.

Your vehicle at a glance

1

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■ Front view



The actual shape may differ from the illustration.

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■ Rear view

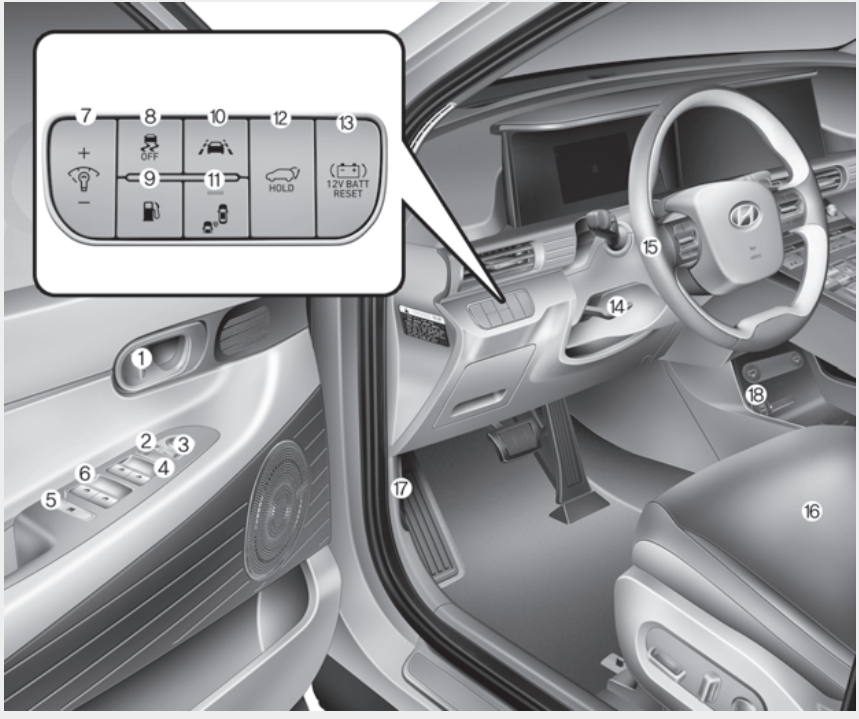


The actual shape may differ from the illustration.

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INTERIOR OVERVIEW

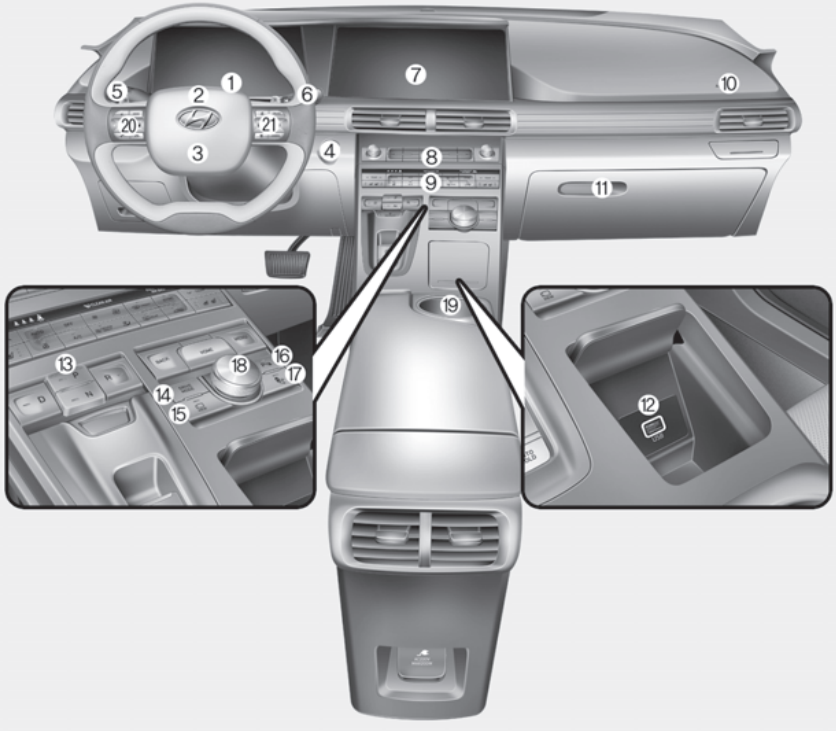


The actual shape may differ from the illustration.

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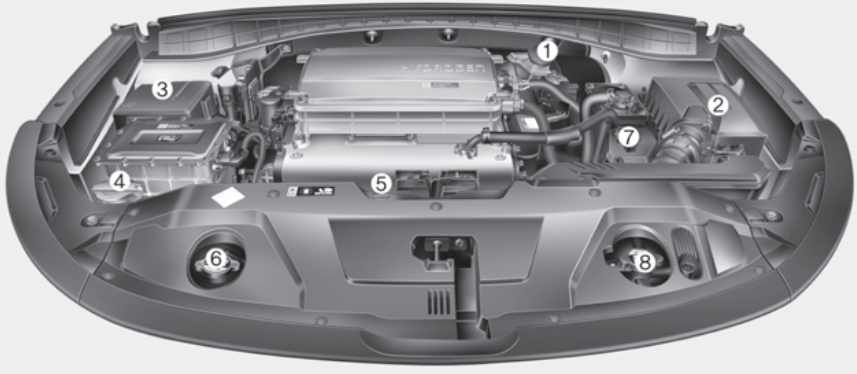


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The actual shape may differ from the illustration.

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FUEL CELL POWER MODULE COMPARTMENT



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8. Stack cooling radiator cap 7-17

The actual Fuel cell power module compartment in the vehicle may differ from the illustration.

OFE078001

Safety system of your vehicle

This chapter provides you with important information about how to protect yourself and your passengers. It explains how to properly use your seats and seat belts, and how your air bags work. Additionally, this chapter explains how to properly restrain infants and children in your vehicle.

2

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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 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. 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 shorter 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 cellular phones.

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

- ALWAYS set up your mobile devices (i.e., MP3 players, phones, navigation units, etc.) when your vehicle is parked or safely stopped.

- ONLY use your mobile device when allowed by laws and when conditions permit safe use. NEVER text or email while driving. Most states have laws prohibiting drivers from texting. Some states 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.

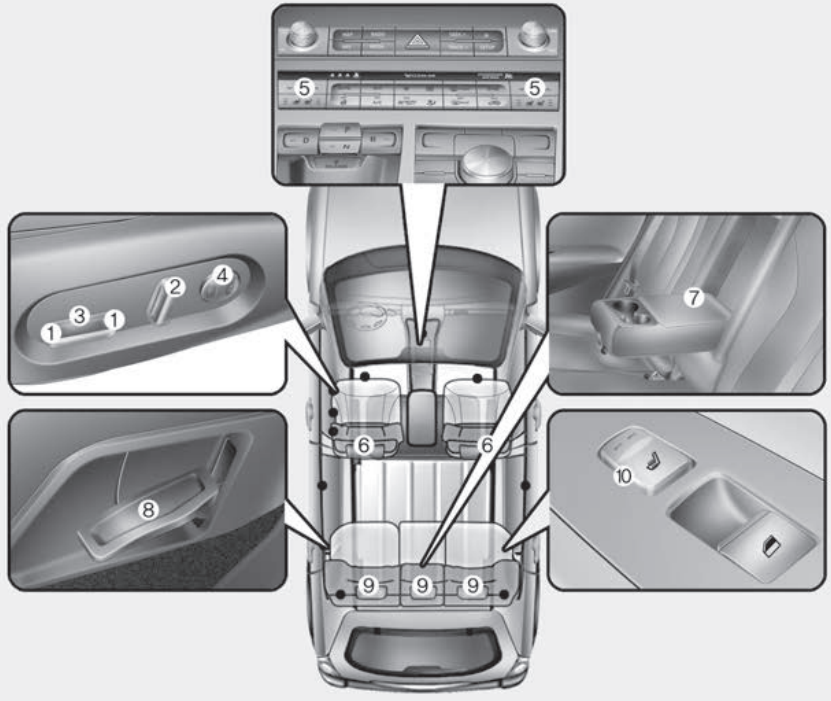
Control Your Speed

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 seats

(1) Seat sliding forward or rearward
(2) Seatback angle adjustment
(3) Seat cushion angle adjustment
(4) Lumbar support adjustment (Driver's seat)*
(5) Seat warmer / Air ventilation seat*
(6) Head restraint

Rear seats

(7) Armrest
(8) Seatback angle and folding adjustment
(9) Head restraint
(10) Seat warmer*

* : if equipped

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Safety Precautions

Adjusting the seats so that you are sitting in a safe, comfortable position plays an important role in driver and passenger safety together with the seat belts and air bags 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.

The National Highway Traffic Safety Administration (NHTSA) recommends that drivers allow at least 10 inches (25 cm) between the center of the steering wheel and their chest.

⚠ 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 maintain full control of the vehicle.**
- **Adjust the front passenger seat as far to the rear as possible.**
- **Hold the steering wheel by the rim with 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 the steering wheel 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. Adults and children who have outgrown a booster seat 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.

⚠ 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.

Power adjustment

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.

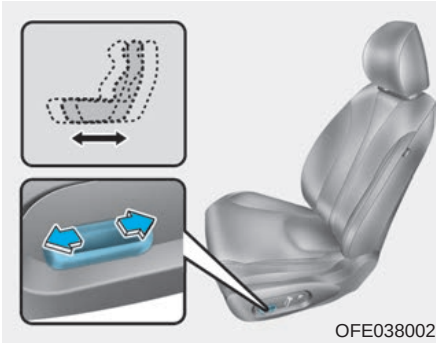
⚠ WARNING

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:

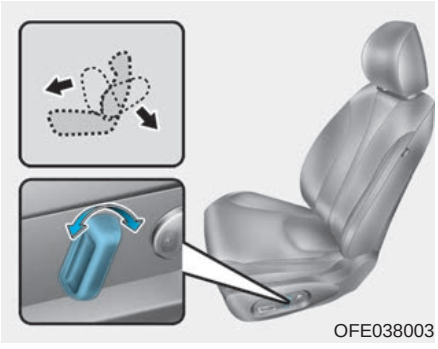
- **Always stop adjusting the seats when the seat has moved as far forward or rearward as possible.**
- **Do not adjust the seats for longer than necessary when the vehicle is turned off. This may result in unnecessary battery drain.**
- **Do not operate two or more seats at the same time. This may result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



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.


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Seatback angle

To adjust the seatback:

1. Rotate the top of control switch forward or rearward.
2. Release the switch once the seatback reaches the desired position.

Reclining seatback

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

⚠ WARNING

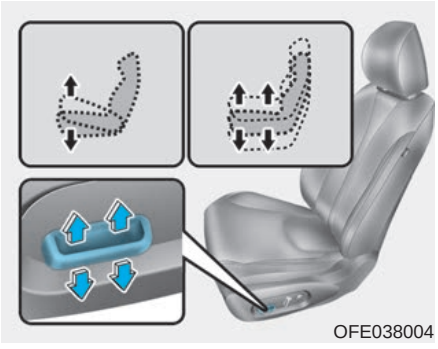
NEVER ride with a reclined seatback when the vehicle is moving.

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.


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Seat cushion tilt

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.

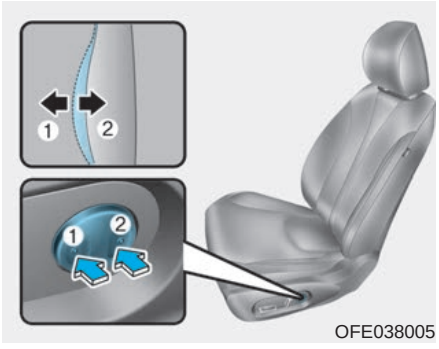
Release the switch once the seat reaches the desired position.

Seat cushion height

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.



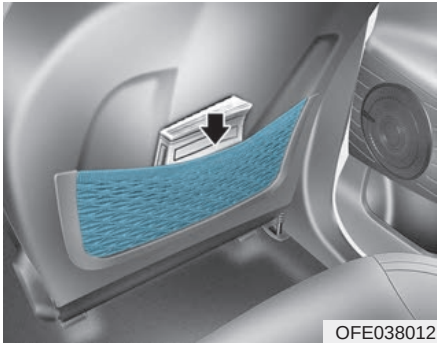
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Lumbar support (for driver's seat)

The lumbar support can be adjusted by pressing the lumbar support switch.

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

Seatback pocket


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The seatback pocket is provided on the back of the front passenger's seatback.

⚠ WARNING

To prevent the Occupant Classification System from malfunctioning:

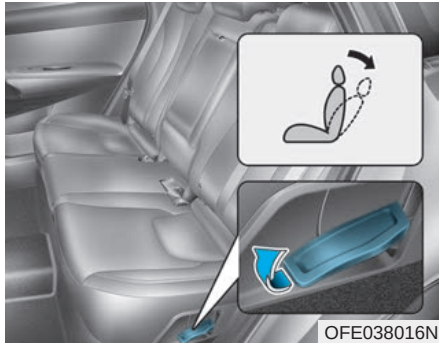
Do not hang onto the front passenger's seatback.

⚠ 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 adjustment


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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.)

Folding the rear seat

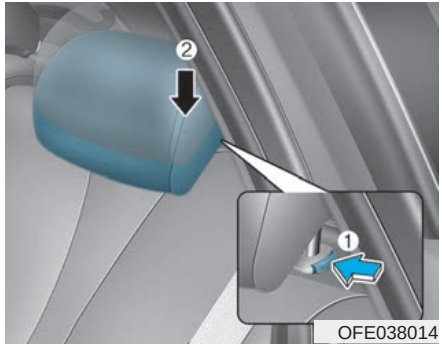
The rear seatbacks can be folded to facilitate carrying long items or to increase the luggage capacity of the vehicle.

⚠ WARNING

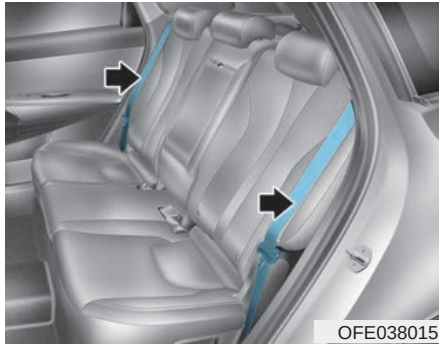
- **Never allow passengers to sit on top of the folded down seatback while the vehicle is moving. This is not a proper seating position and no seat belts are available for use. This could result in serious injury or death in case of an accident or sudden stop.**
- **Objects carried on the folded down 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.**

To fold down the rear seatback:

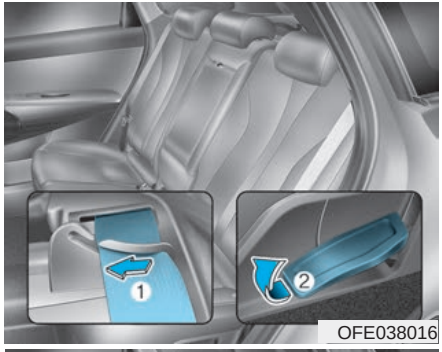
1. Set the front seatback to the upright position and if necessary, slide the front seat forward.

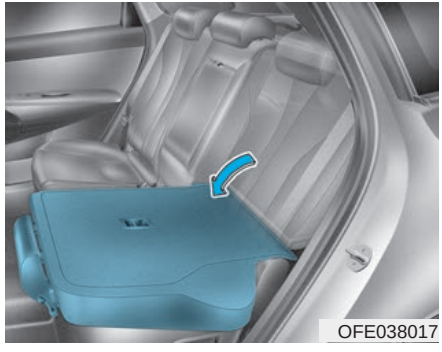


2. Lower the rear head restraints to the lowest position by pushing and holding the release button (1) and pushing down on the headrest (2).

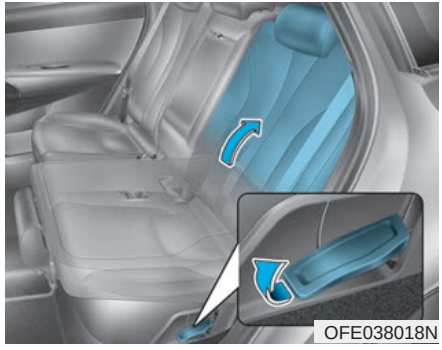


3. Locate the seatbelt toward the outboard position before folding down the seatback. If not, the seatbelt system may be interfered by the seatback.





4. Put out the belt from guide (1) and pull up the seatback folding lever (2), then fold the seat toward the front of the vehicle.



5. To use the rear seat, lift and unfold the seatback to the upright position by pulling up the recline lever.

   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. Insert the belt in the guide located on the side of the rear head restraints.

⚠ WARNING

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.

⚠ WARNING

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.

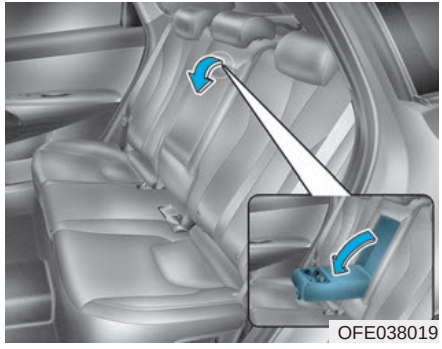
⚠ WARNING

Make sure the vehicle is off, 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 lever is inadvertently moved to another position.

⚠ CAUTION

- **Be careful when loading cargo through the rear passenger seats to prevent damage to the vehicle interior.**
- **When cargo is loaded through the rear passenger seats, ensure the cargo is properly secured to prevent it from moving while driving.**
- **Unsecured cargo in the passenger compartment can cause damage to the vehicle or injury to it's occupants.**

Armrest



The armrest is located in the center of the rear seat. Use the strap in the center of the armrest to pull it down.

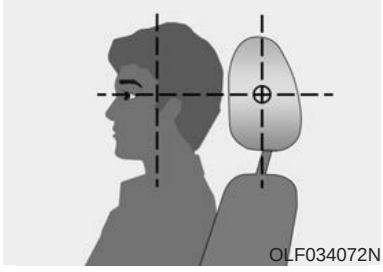
Head Restraints

The vehicle's front and rear seats have adjustable head restraints. The head restraints 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 head restraints:

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

- 

  Adjust the head restraints so the middle of the head restraint is at the same height as the height of the top of the eyes.
- **NEVER adjust the head restraint position of the driver's seat when the vehicle is in motion.**
- **Adjust the head restraint 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 head restraint locks into position after adjusting it.**

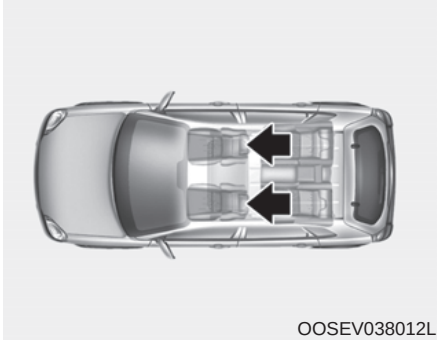
NOTICE

To prevent damage, NEVER hit or pull on the head restraints.

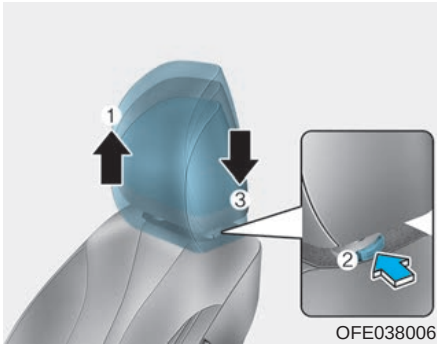
⚠ CAUTION

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.

Front seat head restraints



The vehicle's front and passenger's seats are equipped with adjustable head restraints for the passengers safety and comfort.



OFE038006

Adjusting the height up and down

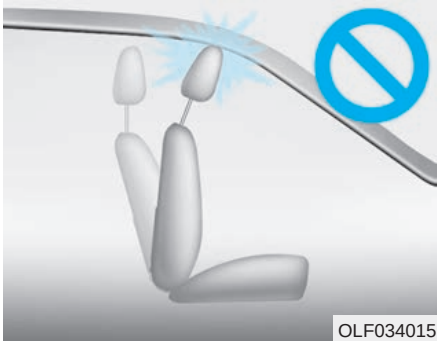
To raise the head restraint:

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

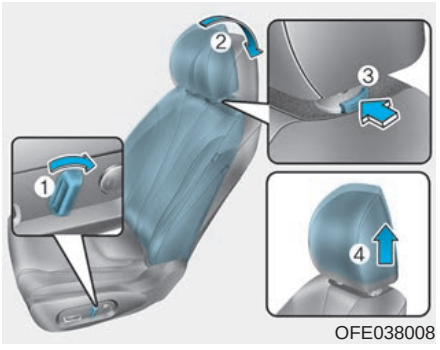
To lower the head restraint:

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

NOTICE


OLF034015

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

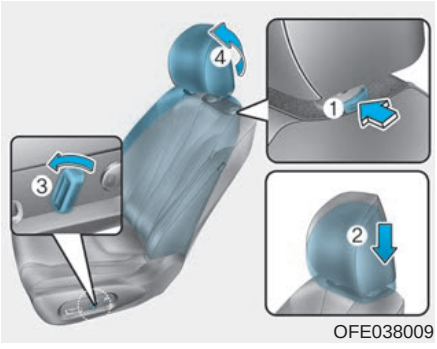


OFE038008

Removal/Reinstallation

To remove the head restraint:

1. Recline the seatback (2) rearward using the seatback angle lever/ switch (1).
2. Raise the head restraint as far as it can go.
3. Press the head restraint release button (3) while pulling the head restraint up (4).

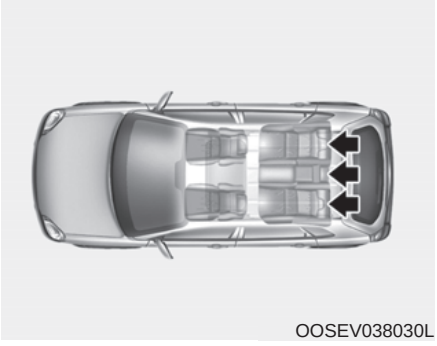


OFE038009

To reinstall the head restraint:

1. Put the head restraint poles (2) into the holes while pressing the release button (1).
2. Adjust the head restraint to the appropriate height.
3. Adjust the seatback (4) forward using the seatback angle lever/ switch (3).

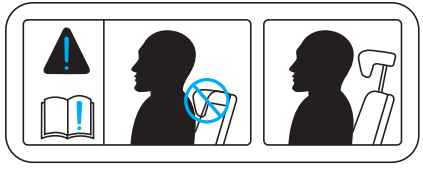
Rear seat head restraints


OOSEV038030L

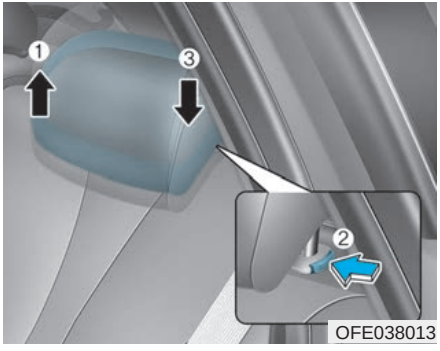
The rear seats are equipped with head restraints in all the seating positions for the passenger's safety and comfort.

⚠ CAUTION

- **Adjust the headrests so the middle of the head restraints is at the same height as the height of the top of the eyes.**



- **When seating on the rear seat, do not adjust the height of the head restraints to the lowest.**



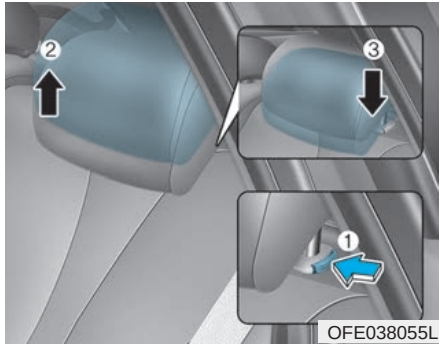
Adjusting the height up and down

To raise the head restraint:

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

To lower the head restraint:

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



Removal/Reinstallation

To remove the head restraint:

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

To reinstall the head restraint:

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

Seat Warmers and Air Ventilation Seats

Front seat warmers (if equipped)

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

⚠ 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.

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

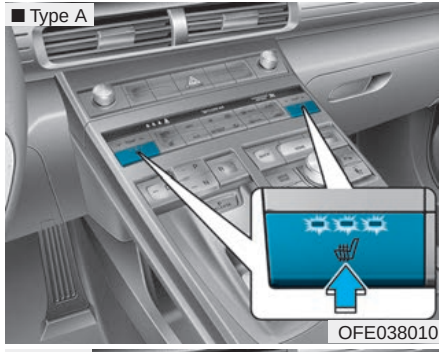
NEVER place anything on the seat that insulates against heat when the seat warmer is in operation, such as a blanket or seat cushion. This may cause the seat warmer to overheat, causing a burn or damage to the seat.

NOTICE

To prevent damage to the seat warmers and seats:

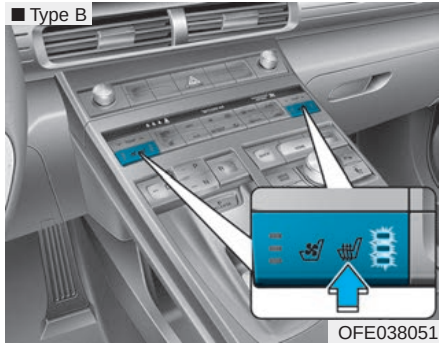
- **Never use a solvent such as paint thinner, benzene, alcohol or gasoline to clean the seats.**
- **Do not place heavy or sharp objects on seats equipped with seat warmers.**
- **Do not change the seat cover. It may damage the seat warmer.**

■ Type A



OFE038010

■ Type B



OFE038051

While the vehicle is ON, push either of the switches to warm the driver's seat or front passenger's seat.

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

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

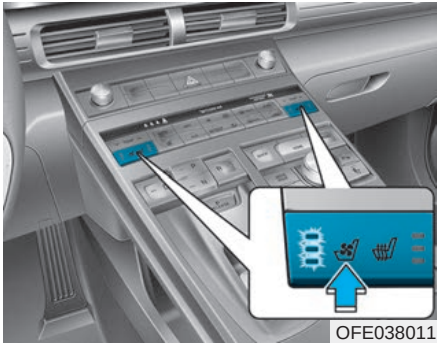
OFF → HIGH ( ) ↓ MIDDLE ( ) ← LOW ( )

- When pressing the switch for more than 1.5 seconds with the seat warmer operating, the seat warmer will turn OFF.
- The seat warmer defaults to the OFF position each time the POWER button is turned to the ON position.

i Information

With the seat warmer switch in the ON position, the heating system in the seat turns off or on automatically depending on the seat temperature.

Front air ventilation seat (if equipped)


OFE038011

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 switches in the OFF position.

While the vehicle is ON, push the switch to cool the driver's seat or the front passenger's seat.

- Each time you push the switch, the airflow changes as follows:

OFF → HIGH ( ) ↓ MIDDLE ( ) ← LOW ( )

- When pressing the switch for more than 1.5 seconds with the air ventilation seat operating, the operation will turn OFF.
- The air ventilation seats defaults to the OFF position each time the POWER button is placed to the ON position.

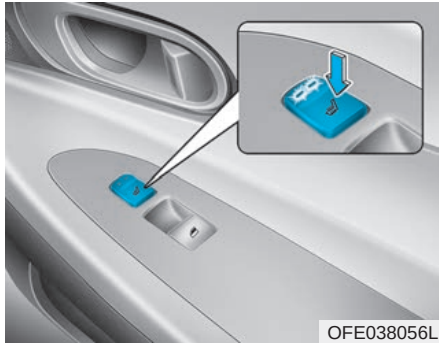
NOTICE

To prevent damage to the air ventilation seat:

- **Use the air ventilation seat ONLY when the climate control system is on. Using the air ventilation seat for prolonged periods of time with the climate control system off could cause the air ventilation seat to malfunction.**
- **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 become blocked and not work properly.**
- **Do not place materials such as plastic bags or newspapers under the seats. They may block the air intake causing the air vents to not work properly.**

- **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, have the vehicle inspected by an authorized HYUNDAI dealer.**

Rear seat warmers (For CANADA)


OFE038056L

While the vehicle is ON, pusheither of the switches to warm the rearseat.

During mild weather or under conditions where the operation of the seatwarmer is not needed, keep the switches in the OFF position.

Each time you push the switch, thetemperature setting of the seat ischanged as follows :

OFF → HIGH ( ) → LOW ( )

The seat warmer defaults to the OFFposition whenever the POWER button is placed to the ON position.

Information

With the seat warmer switch in the ON position, the heating system in theseat turns off oron automatically-depending on the seat temperature.

SEAT BELTS

This section describes how to use the seat belts properly. It also describes some of the things to avoid 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, but they are not a substitute. Most states 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:

- **ALWAYS properly restrain children under age 13 in the rear seats.**
- **NEVER allow children to ride in the front passenger seat. If a child age 13 or older must be seated in the front seat, move the seat as far back as possible and properly restrain them in the seat.**
- **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.**
- **Always wear both the shoulder portion and lap portion of the lap/shoulder belt.**
- **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. This may prevent the seat belt from fastening securely.**
- **No modifications or additions should be made by the user which will either prevent the seat belt adjusting devices from operating to remove slack, or prevent 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

Seat belt warning light



OLMB033022

Driver's seat belt warning

As a reminder to the driver, the seat belt warning light will illuminate for approximately 6 seconds each time the POWER button is turned ON regardless of belt fastening. At this time, if the seat belt is not fastened a warning chime will sound for 6 seconds.

If you continue not to fasten the seat belt and you drive over 6 mph (9 km/h), the warning light will stay illuminated.

If you continue not to fasten the seat belt and you drive over 12 mph (20 km/h) the seat belt warning chime will sound for approximately 100 seconds and the corresponding warning light will blink.

If you unfasten the seat belt while driving under 12 mph (20 km/h), the seat belt warning light will illuminate until the seat belt is fastened.

If you unfasten the seat belt while driving over 12 mph (20 km/h), the seat belt warning chime will sound for approximately 100 seconds and the corresponding warning light will blink.



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 POWER button is turned ON position regardless of belt fastening.

If you continue not to fasten the seat belt and you drive over 6 mph (9 km/h), the warning light will stay illuminated.

If you continue not to fasten the seat belt and you drive over 12 mph (20 km/h) the seat belt warning chime will sound for approximately 100 seconds and the corresponding warning light will blink.

If you unfasten the seat belt while driving under 12 mph (20 km/h) the seat belt warning light will illuminate until the seat belt is fastened.

If you unfasten the seat belt while driving over 12 mph (20 km/h), the seat belt warning chime will sound for approximately 100 seconds and the corresponding warning light will blink.

Information

- **Although the front passenger seat is not occupied, the seat belt warning light will blink or illuminate for 6 seconds.**

  Also, when the front passenger gets off the vehicle while the warning is activating, the warning may continue for 6 seconds even after the passenger gets off.
- **The front passenger's seat belt warning light may not properly operate if the front passenger does not sit properly in the seat.**
- **The front passenger's seat belt warning may operate when luggage, electronic device, etc. are placed on the front passenger seat.**

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.**
- **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.**

Seat Belt-Driver's 3-point system with emergency locking retractor



To fasten your seat belt:

Pull the seat belt 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.

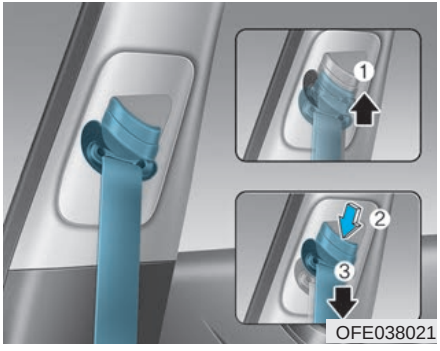
NOTICE

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 three 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.



OFE038021

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.



OHSS038103

To release your seat belt:

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

When it is 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 Seat Belt – Passenger's 3-point system with convertible locking retractor

This type of seat belt combines the features of both an emergency locking retractor seat belt and an automatic locking retractor seat belt. Convertible retractor type seat belts are installed in the rear seat positions to help accommodate the installation of child restraint systems. Although a convertible retractor is also installed in the front passenger seat position, NEVER place any infant/child restraint system in the front seat of the vehicle.

To fasten your seat belt:

Pull the seat belt out of the retractor and insert the metal tab into the buckle. There will be an audible "click" when the tab locks into the buckle. When not securing a child restraint, the seat belt operates in the same way as the driver's seat belt (Emergency Locking Retractor Type). It automatically adjusts to the proper length only after the lap belt portion of the seat belt is adjusted manually so that it fits snugly across your hips.

When the seat belt is fully extended from the retractor to allow the installation of a child restraint system, the seat belt operation changes to allow the belt to retract, but not to extend (Automatic Locking Retractor Type). Refer to the "Using a Child Restraint System" section in this chapter.

NOTICE

Although the seat belt retractor provides the same level of protection for seated passengers in either emergency or automatic locking modes, the emergency locking mode allows seated passengers to move freely in their seat while keeping some tension on the belt. During a collision or sudden stop, the retractor automatically locks the belt to help restrain your body.

To deactivate the automatic locking mode, unbuckle the seat belt and allow the belt to fully retract.

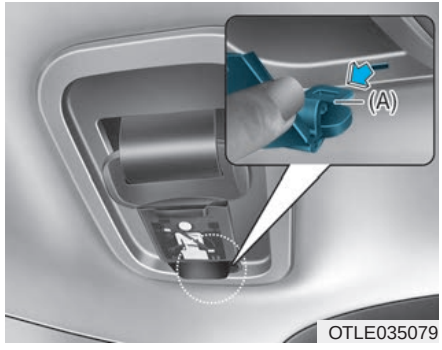


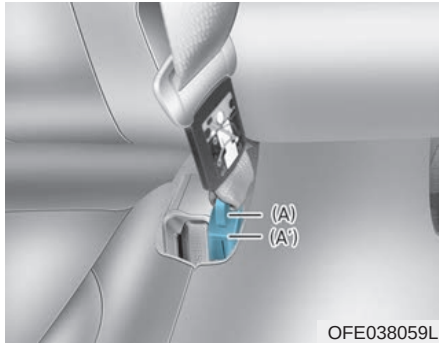
To release your seat belt:

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

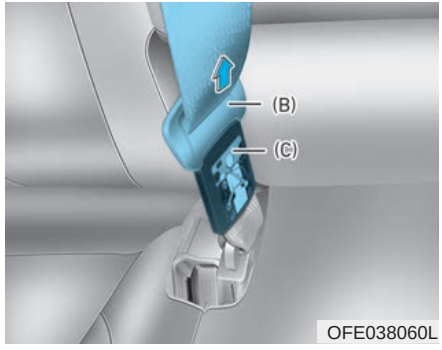
When it is released, the belt should automatically draw back into the retractor. If this does not happen, check the belt to be sure it is not twisted, then try again.

To fasten the rear center seat belt

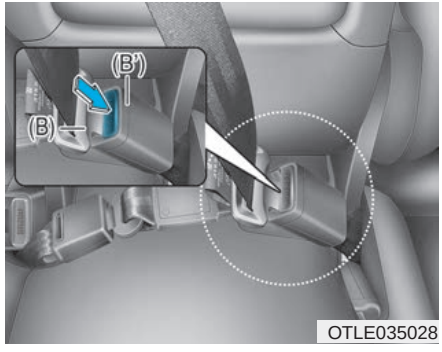




1. Extract the small tongue plate (A) from the slot on the belt assembly pocket located in the headliner.
2. Insert the small tongue plate (A) into the primary buckle (A') located on the right hand (passenger) side of the center seat. Insert the buckle until an audible "click" is heard, indicating that the latch is locked. Make sure the belt is not twisted.



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OTLE035028

3. Slip the large tongue plate (B) out of the pocket (C) located on the belt assembly.

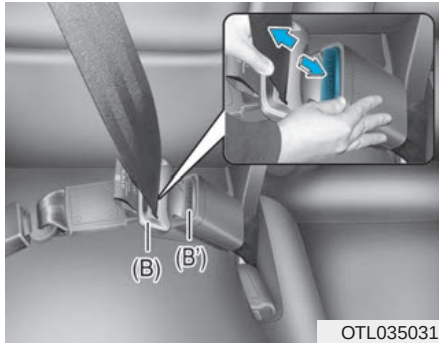
4. Pull the large tongue plate and insert it into the seat belt buckle (B') located on the left hand (driver) side of the center seat. Insert the buckle until an audible "click" is heard, indicating that the latch is locked. Make sure the belt is not twisted.

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

Information

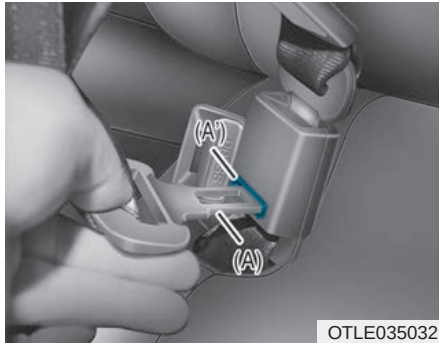
If you are not able to pull out the safety belt from the retractor, firmly pull the belt out and release it. After release, you will be able to pull the belt out smoothly.

To release the rear center seat-belt

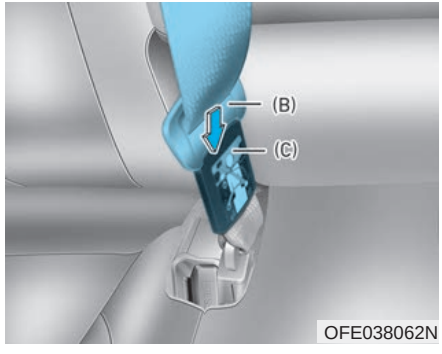


OTL035031

1. Press the release button on the rear center seat belt buckle (B') located on the left hand (driver) side of the center seat and remove the large tongue plate (B).



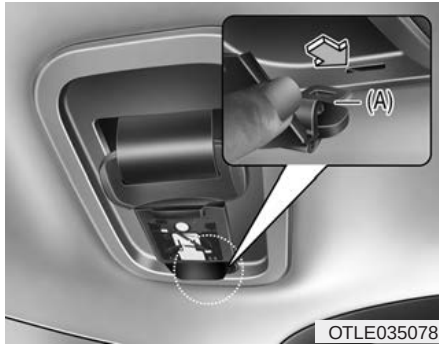
OTLE035032



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2. To release and retract the rear center seatbelt assembly, insert a small tool or key into the primary buckle release hole (A') located on the right hand (passenger) side of the center seat. You can also insert the large buckle (B) into the release hole to release the seat belt assembly.

   Pull up on the seat belt webbing and allow the webbing to retract automatically.
3. Slip the large tongue plate (B) into the pocket (C) located on the belt assembly.



OTLE035078

4. Insert the small tongue plate (A) into the slot on the belt assembly pocket located in the headliner.

Pre-tensioner seat belt (Driver and front passenger)



Your vehicle is equipped with driver's and front passenger's Pre-tensioner Seat Belts (Retractor Pretensioner and Emergency Fastening Device System). 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 Emergency Fastening Device System may be activated in certain crashes where the frontal 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 or side collision(s), the pre-tensioner will activate and pull the seat belt into tighter contact against the occupant's body.

(1) Retractor Pretensioner

The purpose of the retractor pretensioner is to make sure that the shoulder belts fit in tightly against the occupant's upper body in certain frontal or side collision(s).

(2) Emergency Fastening Device System

The purpose of the Emergency Fastening Device System is to make sure that the pelvis belts fit in tightly against the occupant's lower body in certain frontal collision(s).

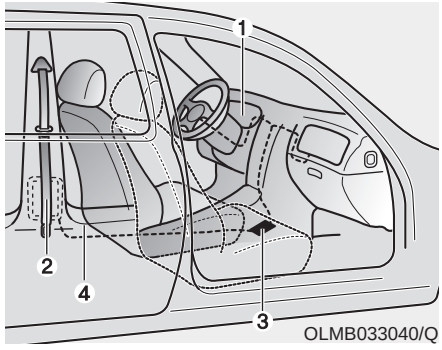
If the system senses excessive tension on the driver or passenger's seat belt when the pre-tensioner system activates, the load limiter inside the retractor pre-tensioner will release some of the pressure on the affected seat belt.

⚠ 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 yourself. This must be done 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-tensioners become hot and can burn you.



OLMB033040/Q

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. Emergency fastening device

NOTICE

The sensor that activates the SRS air bag is connected with the pre–tensioner seat belts. The SRS air bag warning light on the instrument panel will illuminate for approximately 6 seconds after the POWER button is placed to 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, have an authorized HYUNDAI dealer inspect the pre-tensioner seat belts and SRS air bags as soon as possible.

NOTICE

- **Both the driver's and front passenger's pre-tensioner seat belts may be activated in certain frontal or side collisions or rollovers.**
- **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 line so that it fits snugly and as low as possible across the hips, not across the abdomen.

⚠ WARNING

- **Fasten your seat belt while sitting properly in an upright position to maximize the effectiveness of the pre-tensioner seat belt system.**
- **A pre-tensioner seat belt system is designed to activate only once. Replace the pre-tensioner seat belt system, if it was activated in an accident.**

⚠ WARNING

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

Seat belt use and children

Infant and small children

All 50 states have child restraint laws which require children to travel in approved child restraint devices, including booster seats. The age at which seat belts can be used instead of child restraints differs among states, so you should be aware of the specific requirements in your state, and where you are travelling. Infant and child restraints 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 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 Federal Motor Vehicle Safety Standards. Before buying any child restraint system, make sure that it has a label certifying that it meets Federal Motor Vehicle Safety Standard FMVSS 213. The restraint must be appropriate for your child's height and weight. Check the label on the child restraint for this information. Refer to the "Child Restraint Systems" section in this chapter.

Larger children

Children under age 13 and who are too large for a booster seat must 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. Children are afforded the most safety in the event of an accident when they are restrained by a proper restraint system and/or seat belts in the rear seat. Always have the LATCH system inspected by your authorized HYUNDAI dealer after an accident. An accident can damage the LATCH system and may not properly secure the child restraint.

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 children are wearing their seat belts and that they are properly adjusted before driving.**
- **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.**

Transporting an injured person

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 air bags) is greatly reduced by reclining your seatback.

To reduce the chance of injuries in the event of an accident and to achieve the maximum effectiveness of the restraint system, all passengers should be sitting up and the front and rear seats should be in an upright position when the car is moving.

A seat belt cannot provide proper protection if the person is lying down in the rear seat or if the front or rear seats are in a reclined position.

⚠ 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.**

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 by an authorized HYUNDAI dealer.

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. Additional questions concerning seat belt operation should be directed to an authorized HYUNDAI dealer.

CHILD RESTRAINT SYSTEM (CRS)

Children Always in the Rear

⚠ WARNING

Always properly restrain children in the rear seats of the vehicle.

Children of all ages are safer when restrained in the rear seat. A child riding in the front passenger seat can be forcefully struck by an inflating air bag resulting in SERIOUS INJURY or DEATH.

Children under age 13 must 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. **Even with air bags, children can be seriously injured or killed.** Children too large for a child restraint must use the seat belts provided.

All 50 states have child restraint laws which require children to travel in approved child restraint devices. The laws governing the age or height/weight restrictions at which seat belts can be used instead of child restraints differs among states, so you should be aware of the specific requirements in your state, and where you are travelling.

Child restraint systems must be properly placed and installed in the rear seat. You must use a commercially available child restraint system that meets the requirements of the Federal Motor Vehicle Safety Standards (FMVSS 213).

Child restraint systems are generally designed to be secured in a vehicle seat by lap belt portion of a lap/shoulder belt, or by a LATCH system in the rear seats of the vehicle.

Child restraint system (CRS)

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

⚠ WARNING

An improperly secured child restraint can increase the risk of SERIOUS INJURY or DEATH in an accident. Always take the following precautions when using a child restraint system:

- **NEVER install a child or infant restraint in the front passenger's seat.**
- **Always properly secure the child restraint to a rear seat of the vehicle.**
- **Always follow the child restraint system manufacturer's instructions for installation and use.**
- **Always properly restrain your child in the child restraint.**
- **If the vehicle head restraint prevents proper installation of a child seat (as described in the child restraint system manual), the head restraint of the respective seating position shall be readjusted or entirely removed.**
- **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, have a HYUNDAI dealer check the child restraint system, seat belts, tether anchors and lower anchors.**

Selecting a Child Restraint System (CRS)

When selecting a CRS for your child, always:

- Make sure the CRS has a label certifying that it meets applicable Federal Motor Vehicle Safety Standards (FMVSS 213).
- Select a child restraint based on your child's height and weight. The required label or the instructions for use typically provide this information.
- Select a child restraint 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

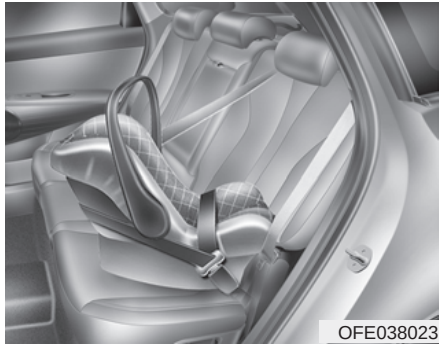
There are three main types of child restraint systems: rearward-facing seats, forward-facing seats, and booster seats. They are classified according to the child's age, height and weight.

Rearward-facing child seats

⚠ WARNING

NEVER install a child or infant restraint in the front passenger's seat.

Placing a rearward-facing child restraint in the front seat can result in SERIOUS INJURY or DEATH if the child restraint is struck by an inflating air bag.



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A rearward-facing child seat 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 seat and reduce the stress to the neck and spinal cord.

All children under age one must always ride in a rearward-facing infant child restraint.

Convertible and 3-in-1 child seats typically have higher height and weight limits for the rearward-facing position, allowing you to keep your child rearward-facing for a longer period of time.

Continue to use a rearward-facing child seat for as long as your child will fit within the height and weight limits allowed by the child seat manufacturer. It's the best way to keep them safe. Once your child has outgrown the rearward-facing child restraint, your child is ready for a forward-facing child restraint with a harness.



Forward-facing child restraints

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

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

Booster seats

A booster seat is a restraint 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 lap of your child.

Keep your child in a booster seat until they are big enough to sit in the seat without a booster and still have the seat belt fit properly. For a seat belt to fit properly, the lap belt must lie snugly across the upper thighs, not the stomach. The shoulder belt should lie snug across the shoulder and chest and not across the neck or face. Children under age 13 must always ride in the rear seats and must always be properly restrained to minimize the risk of injury.

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.**
- **Read and follow the instructions regarding child restraint systems in this manual.**

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

⚠ WARNING

If the vehicle headrest prevents proper installation of a child seat (as described in the child seat system manual, the headrest of the respective seating position shall be readjusted or entirely removed.

After selecting a proper child seat for your child, check to make sure it fits properly in your vehicle. Follow the instructions provided by the manufacturer when installing the child seat. Note these general steps when installing the seat to your vehicle:

- **Properly secure the child restraint to the vehicle.** All child restraints must be secured to the vehicle with the lap part of a lap/shoulder belt or with the LATCH system. If using the lap/shoulder belt for your child restraint, the convertible locking retractor should be pulled all the way out to engage the "automatic locking" mode. (See page 2-43.)
- **Make sure the child restraint is firmly secured.** After installing a child restraint to the vehicle, push and pull the seat forward-and-back and side-to-side to verify that it is securely attached to the seat. A child restraint secured with a seat belt should be installed as firmly as possible. However, some side-to-side movement can be expected.
- **Secure the child in the child restraint.** Make sure the child is properly strapped in the child restraint according to the manufacturer instructions.

⚠ CAUTION

A child restraint 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.

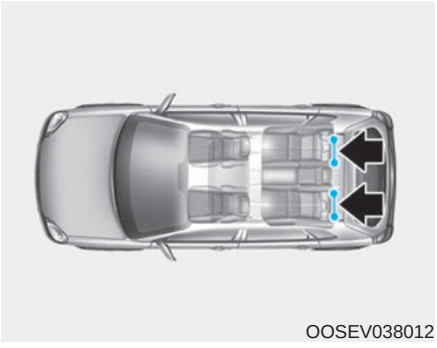
Lower Anchors and Tether for Children (LATCH System)

The LATCH system holds a child restraint during driving and in an accident. This system is designed to make installation of the child restraint easier and reduce the possibility of improperly installing your child restraint. The LATCH system uses anchors in the vehicle and attachments on the child restraint. The LATCH system eliminates the need to use seat belts to secure the child restraint to the rear seats.

Lower anchors are metal bars built into the vehicle. There are two lower anchors for each LATCH seating position that will accommodate a child restraint with lower attachments.

To use the LATCH system in your vehicle, you must have a child restraint with LATCH attachments.

The child seat manufacturer will provide you with instructions on how to use the child seat with its attachments for the LATCH lower anchors.

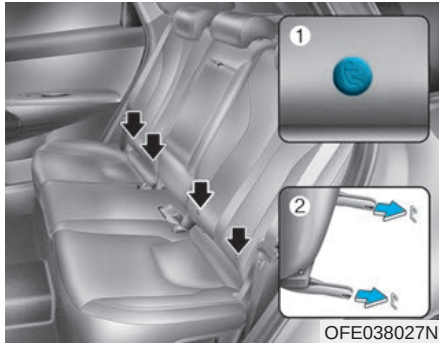


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LATCH anchors have been provided in the left and right outboard rear seating positions. Their locations are shown in the illustration. There are no LATCH anchors provided for the center rear seating position.

⚠ WARNING

Do not attempt to install a child restraint system using LATCH anchors in the rear center seating position. There are no LATCH anchors provided for this seat. Using the outboard seat anchors can damage the anchors which may break or fail in a collision resulting in serious injury or death.



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[1] : Lower Anchor Position Indicator,
[2] : Lower Anchor

The lower anchor position indicator symbols are located on the left and right rear seat backs to identify the position of the lower anchors in your vehicle (see arrows in illustration).

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

Securing a child restraint with the LATCH anchors system

To install a LATCH-compatible child restraint in either of the rear outboard seating positions:

1. Move the seat belt buckle away from the lower anchors.
2. Move any other objects away from the anchors that could prevent a secure connection between the child restraint and the lower anchors.
3. Place the child restraint on the vehicle seat, then attach the seat to the lower anchors according to the instructions provided by the child restraint manufacturer.
4. Follow the child restraint instructions for properly adjusting and tightening the lower attachments on the child restraint to the lower anchors.

⚠ WARNING

Take the following precautions when using the LATCH 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 to a single anchor. This could cause the anchor or attachment to come loose or break.**
- **Always have the LATCH system inspected by your authorized HYUNDAI dealer after an accident. An accident can damage the LATCH system and may not properly secure the child restraint.**

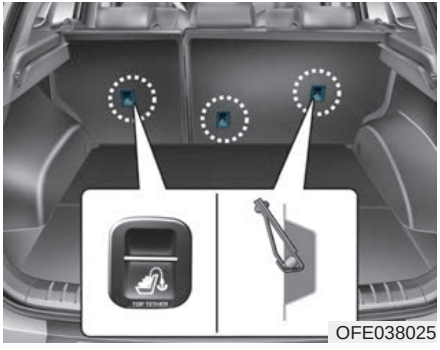
NOTICE

The recommended weight for the LATCH system is under 65 lb (30 kg).

How to determine an appropriate child restraint weight:

Child weight + Child restraint weight < 65 lb (30kg)

Securing a child restraint seat with "Tether Anchor" system


OFE038025

First secure the child restraint with the LATCH lower anchors or the seat belt. If the child restraint manufacturer recommends that the top tether strap be attached, attach and tighten the top tether strap to the top tether strap anchor.

Child restraint hook holders are located on the rear of the seatbacks.

⚠ WARNING

Take the following precautions when installing the tether strap:

- **Read and follow all installation instructions provided with your child restraint system.**
- **NEVER attach more than one child restraint to a single tether anchor. This could cause the anchor or attachment to come loose or break.**
- **Do not attach the tether strap to anything other than the correct tether anchor. It may not work properly if attached to something else.**
- **Do not use the tether anchors for adult seat belts or harnesses, or for attaching other items or equipment to the vehicle.**


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To install the tether anchor:

1. Route the child restraint tether strap over the child restraint seatback. Route the tether strap under the head restraint and between the head restraint posts, or route the tether strap over the top of the vehicle seatback. Make sure the strap is not twisted.
2. Connect the tether strap hook to the tether anchor, then tighten the tether strap according to the child seat manufacturer's instructions to firmly secure the child restraint to the seat.
3. Check that the child restraint is securely attached to the seat by pushing and pulling the seat forward-and-back and side-to-side.

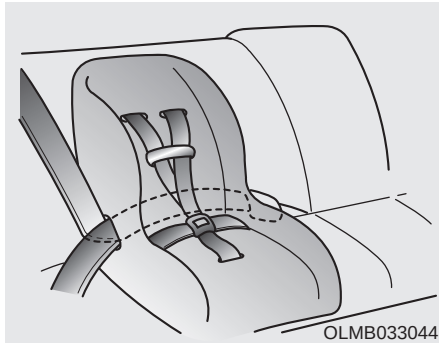
Securing a child restraint with lap/shoulder belt

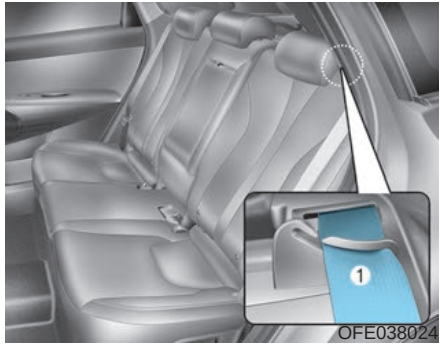
When not using the LATCH system, all child restraints must be secured to a vehicle rear seat with the lap part of a lap/shoulder belt.

⚠ WARNING

ALWAYS place a rear-facing child restraint in the rear seat of the vehicle.

Placing a rear-facing child restraint in the front seat can result in serious injury or death if the child restraint is struck by an inflating air bag.





Automatic locking mode

Since all passenger seat belts move freely under normal conditions and only lock under extreme or emergency conditions (emergency locking mode), you must manually pull the seat belt all the way out to shift the retractor to the "Automatic Locking" mode to secure a child restraint.

The "Automatic Locking" mode will help prevent the normal movement of the child in the vehicle from causing the seat belt to loosen and compromise the child restraint system. To secure a child restraint system, use the following procedure.

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, following the restraint manufacturer's instructions.

   Be sure the seat belt webbing is not twisted. Make sure to insert the belt into the guide(1).

NOTICE

When using the rear center seat belt, you should also refer to the "Rear Seat Belt – Passenger's 3-point system" section in this chapter.



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

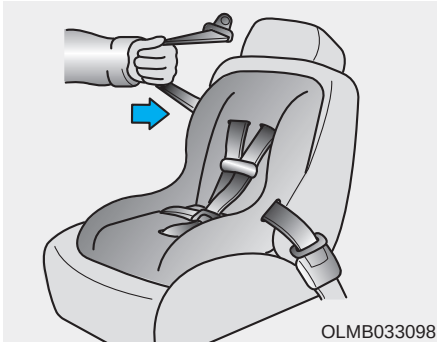
Information

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



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3. Pull the shoulder portion of the seat belt all the way out. When the shoulder portion of the seat belt is fully extended, it will shift the retractor to the "Automatic Locking" (child restraint) mode.


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4. Slowly allow the shoulder portion of the seat belt to retract and listen for an audible "clicking" or "ratcheting" sound. This indicates that the retractor is in the "Automatic Locking" mode. If no distinct sound is heard, repeat steps 3 and 4.
5. 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.
6. Push and pull on the child restraint system to confirm that the seat belt is holding it firmly in place. If it is not, release the seat belt and repeat steps 2 through 6.
7. Double check that the retractor is in the "Automatic Locking" mode by attempting to pull more of the seat belt out of the retractor. If you cannot, the retractor is in the "Automatic Locking" mode.

If your CRS manufacturer instructs or recommends you to use a tether anchor with the lap/shoulder belt, refer to the previous pages for more information.

NOTICE

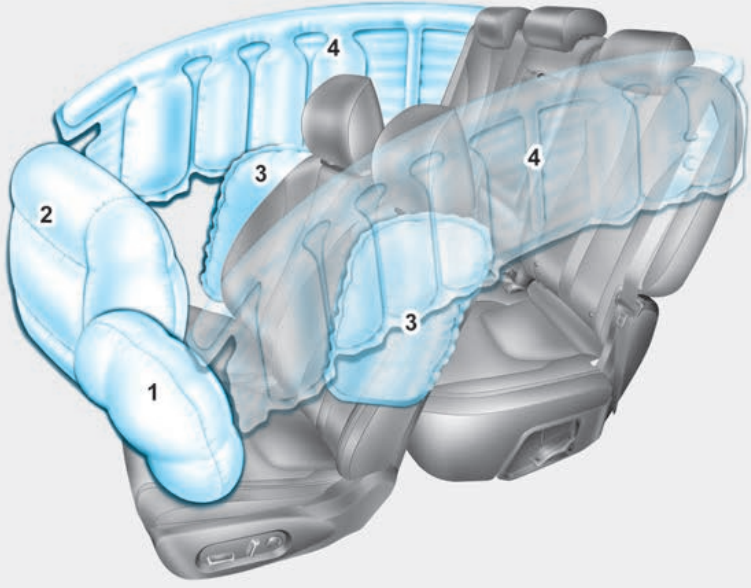
When the seat belt is allowed to retract to its fully stowed position, the retractor will automatically switch from the "Automatic Locking" mode to the emergency lock mode for normal adult usage.

⚠ WARNING

If the retractor is not in the "Automatic Locking" mode, the child restraint can move when your vehicle turns or stops suddenly. A child can be seriously injured or killed if the child restraint is not properly anchored in the car, including manually pulling the seat belt all the way out to shift the rectractor to the "Automatic Locking" mode.

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

AIR BAG - ADVANCED SUPPLEMENTAL RESTRAINT SYSTEM



1. Driver's front air bag
2. Passenger's front air bag
3. Side air bag
4. Curtain air bag

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

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This vehicle is equipped with an Advanced 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 restraints - 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 or booster seat in the front passenger seat. 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 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. The U.S. National Highway Traffic Safety Administration (NHTSA) recommends that drivers allow at least 10 inches (25 cm) between the center of the steering wheel and the chest.

Where Are the Air Bags?

Driver's and passenger's front air bags

Your vehicle is equipped with a Advanced 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.

■ Driver's front air bag



OFE038029

■ Passenger's front air bag



OFE038031

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.

The advanced SRS offers the ability to control the air bag inflation within two levels. A first stage level is provided for moderate-severity impacts. A second stage level is provided for more severe impacts.

According to the impact severity, the SRS Control Module (SRSCM) controls the air bag inflation. Failure to properly wear seat belts can increase the risk or severity of injury in an accident.

⚠ WARNING

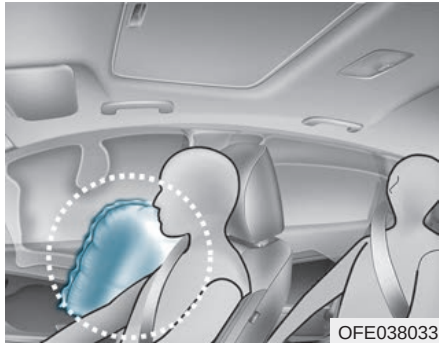
To reduce the risk of serious injury or death from an inflating front air bags, take the following precautions:

- **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, cellular 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.**

Side air bags


OFE038032


OFE038033

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 driver and the front passenger with 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.

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

The side 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 side air bag, take the following precautions:

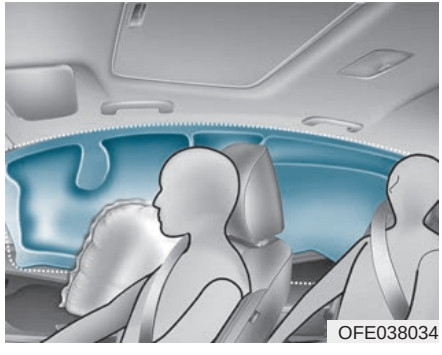
- **Seat belts must be worn at all times to help keep occupants positioned properly.**

- **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 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 put any objects between the side airbag label and seat cushion. It could cause harm if the vehicle is in a crash severe enough to cause the air bags to deploy.**
- **Do not cause impact to the doors when the POWER button is placed to the ON position as this may cause the side air bags to inflate.**
- **If the seat or seat cover is damaged, have the vehicle checked and repaired by an authorized HYUNDAI dealer.**

Curtain air bags


OFE038035


OFE038034

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.

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

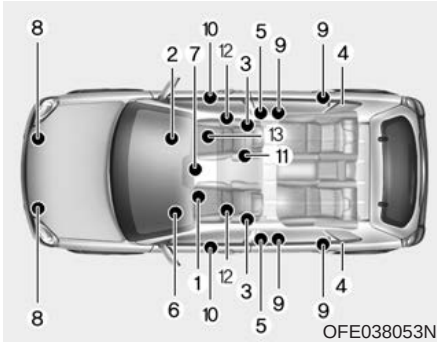
The curtain air bags are not designed to deploy in all side impact or rollover situations.

⚠ 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 restraints 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 open or repair the side curtain air bags.**

How Does the Air Bag 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. Retractor pre-tensioner
6. Air bag warning light
7. SRS control module (SRSCM)/ Rollover sensor
8. Front impact sensors
9. Side impact sensors

10. Side pressure sensors
11. Seat belt buckle sensor
12. Emergency Fastening Device System
13. Occupant classification system

The SRSCM (Supplemental Restraint System Control Module) continually monitors all SRS components while the POWER button is placed to the ON position 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 (Supplement 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 malfunction with your air bag system, which could include your side and curtain air bags used for rollover protection.

⚠ 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 six seconds when the POWER button is in the ON position.**
- **The light stays on after illuminating for approximately six seconds.**
- **The light comes on when the vehicle is ON.**
- **The light blinks when the vehicle is ON.**

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

During a frontal collision, sensors will detect the vehicle's deceleration. If the rate of deceleration is high enough, the control unit will inflate the front air bags.

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.

- Air bags are activated (able to inflate if necessary) only when the POWER button is placed to the ON position.
- 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, 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 certain side collisions, vehicles equipped with a rollover sensor, side and curtain air bags will inflate if the sensing system detects a rollover.

  When a rollover is detected, side and curtain air bags will remain inflated longer to help provide protection from ejection, especially when used in conjunction with the seat belts.
- 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 help 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 about 10 inches (25 cm) of space to inflate. NHTSA recommends that drivers allow at least 10 inches (25 cm) between the center of the steering wheel and the chest.

⚠ WARNING

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

- **NEVER place a child restraint in the front passenger seat.**

  Always properly restrain children under age 13 in the rear seats of the vehicle.
- **Adjust the front passenger's and driver's seats as far to the rear as possible while allowing you to maintain full control of the vehicle.**
- **Hold the steering wheel with hands at the 9 o'clock and 3 o'clock positions.**
- **Never place anything or anyone between the air bag and the seat occupant.**
- **Do not allow the front passenger to place their feet or legs on the dashboard.**

■ Driver's front air bag (1)



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

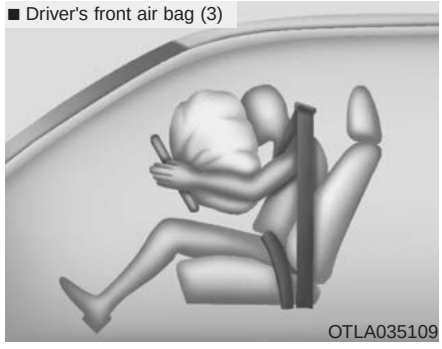
■ Driver's front air bag (2)



Upon deployment, tear seams molded directly into the pad covers 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 or the front passenger forward motion, reducing the risk of head and chest injury.

■ Driver's front air bag (3)



■ Passenger's front air bag



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:

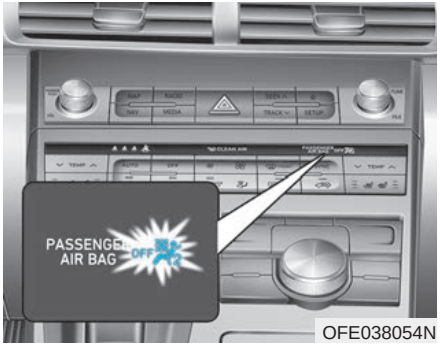
- **Open your windows and doors as soon as possible after impact to reduce prolonged exposure to the smoke and powder released by the inflating air bag.**
- **Do not touch the air bag storage area's internal components immediately after an air bag has inflated. The parts that come into contact with an inflating air bag may be very hot.**
- **Always wash exposed skin areas thoroughly with cold and mild soap.**
- **Always have 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.

Occupant Classification System (OCS)



OFE038054N

Your vehicle is equipped with an Occupant Classification System (OCS) in the front passenger's seat.

Main components of the Occupant Classification System

- A detection device located within the front passenger seat cushion.
- Electronic system to determine whether the passenger air bag systems should be activated or deactivated.
- An indicator light located on the instrument panel which illuminates the words "PASSENGER AIR BAG OFF" indicating the front passenger air bag system is deactivated.
- The instrument panel air bag indicator light is interconnected with the OCS.

The OCS is designed to help detect the presence of a properly-seated front passenger and determine if the passenger's front air bag should be enabled (may inflate) or not.

The purpose is to help reduce the risk of injury or death from an inflating air bag to certain front passenger seat occupants, such as children, by requiring the air bag to be automatically turned OFF.

For example, if a child restraint of the type specified in the regulations is on the seat, the occupant classification sensor can detect it and cause the air bag to turn OFF.

Front passenger seat adult occupants who are properly seated and wearing the seat belt properly, should not cause the passenger air bag to be automatically turned OFF. For small adults it may be turned OFF, however, if the occupant does not sit in the seat properly (for example, by not sitting upright, by sitting on the edge of the seat, or by otherwise being out of position), this could cause the sensor to turn the air bag OFF.

You will find the "PASSENGER AIR BAG OFF" indicator on the center fascia panel. This system detects the conditions 1-4 in the following table and activates or deactivates the front passenger air bag based on these conditions.

Always be sure that you and all vehicle occupants are seated properly and wearing the seat belt properly for the most effective protection by the air bag and the seat belt.

The OCS may not function properly if the passenger takes actions which can affect the classification system. These include:

- Failing to sit in an upright position.
- Leaning against the door or center console.
- Sitting towards the sides of the front of the seat.
- Putting their legs on the dashboard or resting them on other locations which reduce the passenger weight on the front seat.
- Wearing the seat belt improperly.
- Reclining the seatback.
- Wearing a thick cloth like ski wear or hip protection wear.
- Putting an additional thick cushion on the seat.
- Putting electrical devices (e.g. notebook, satellite radio) on the seat with inverter charging.

Condition and operation in the front passenger Occupant Classification System

Condition detected by the occupant classification system	Indicator/Warning light		Devices
	"PASSENGER AIR BAG OFF" indicator light	SRS warning light	Front passenger air bag
1. Adult *1	Off	Off	Activated
2. Infant *2 or child restraint system with 12 months old *3 *4	On	Off	Deactivated
3. Unoccupied	On	Off	Deactivated
4. Malfunction in the system	Off	On	Activated

*1 The system judges a person of adult size as an adult. When a smaller adult sits in the front passenger seat, the system may recognize him/her as a child depending on his/her physique and posture.

*2 Do not allow children to ride in the front passenger seat. When a larger child who has outgrown a child restraint system sits in the front passenger seat, the system may recognize him/her as an adult depending upon his/her physique or sitting position.

*3 Never install a child restraint system on the front passenger seat.

*4 The PASSENGER AIR BAG "OFF" indicator may turn on or off when a child above 12 months to 12 years old (with or without child restraint system) sits in the front passenger seat. This is a normal condition.

⚠ WARNING

Riding in an improper position or placing weight on the front passenger's seat when it is unoccupied by a passenger adversely affects the OCS. To reduce the risk of serious injury or death:


OVQ036013NB

- **NEVER put a heavy load in the front seat or seatback pocket, or hang any items on the front passenger seat.**


OLMB033103

- **NEVER ride with the seatback reclined when the vehicle is moving.**


OLMB033100

- **NEVER place your feet on the front passenger seatback.**


OLMB033102

- **NEVER place your feet or legs on the dashboard.**


OLMB033101

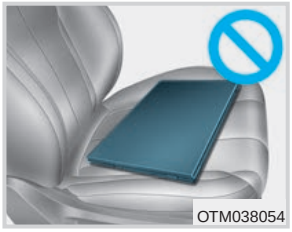
- **NEVER sit with your hips shifted towards the front of the seat.**


OLMB033104

- **NEVER lean on the door or center console or sit on one side of the front passenger seat.**



- Do not sit on the passenger seat wearing heavily padded clothes such as ski wear and hip protector.



- Do not place electronic devices such as laptops, DVD player, or conductive materials such as water bottles on the passenger seat.
- Do not use electronic devices such as laptops and satellite radios which use inverter chargers.



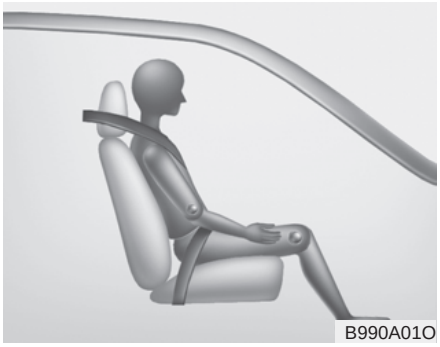
- Do not use car seat accessories such as thick blankets and cushions which cover up the car seat surface.



- If large quantity of liquid has been spilled on the passenger seat, the air bag warning light may illuminate or malfunction.

  Therefore, make sure the seat has been completely dried before driving the vehicle.

- Do not place sharp objects on the front passenger seat. These may damage the occupant detection system, if they puncture the seat cushion.
- Do not place any items under the front passenger seat.
- When changing or replacing the seat or seat cover, use original items only. The OCS has been developed based on using original HYUNDAI car seats only. Altering or changing the authentic parts may result in system malfunction and increase risk of injury when in collision. Any of the above could interfere with the proper operation of the OCS sensor thereby increasing the risk of an injury in an accident.



Proper seated position for OCS

If the "PASSENGER AIR BAG OFF" indicator is on when an adult is seated in the front passenger seat, place the POWER button in the OFF position and ask the passenger to sit properly (sitting upright with the seat back in an upright position, centered on the seat cushion with their seat belt on, legs comfortably extended and their feet on the floor). Restart the vehicle and have the person remain in that position. This will allow the system to detect the person and to enable the passenger air bag. If the "PASSENGER AIR BAG OFF" indicator is still on, ask the passenger to move to the rear seat.

⚠ 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. Have your passenger reposition himself in the seat. If the "PASSENGER AIR BAG OFF" indicator remains illuminated after the passenger repositions himself properly and the vehicle is restarted, have the passenger move to the rear seat because the air bag will not inflate.

NOTICE

The "PASSENGER AIR BAG OFF" indicator illuminates for approximately 4 seconds after the POWER button is in the ON position or after the vehicle is started. If the front passenger seat is occupied, the OCS will then classify the front passenger after several more seconds.

Do Not Install a Child Restraint in the Front Passenger's Seat



Even though your vehicle is equipped with the OCS, never install a child restraint in the front passenger's seat. An inflating air bag can forcefully strike a child or child restraint resulting in serious or fatal injury.

⚠ WARNING

- **NEVER place a rear-facing or front-facing child restraint in the front passenger's seat of the vehicle.**
- **An inflating frontal air bag could forcefully strike a child resulting in serious injury or death.**
- **Always properly restrain children in an appropriate child restraint in the rear seat of the vehicle.**

Why Didn't My Air Bag Go Off in a Collision?

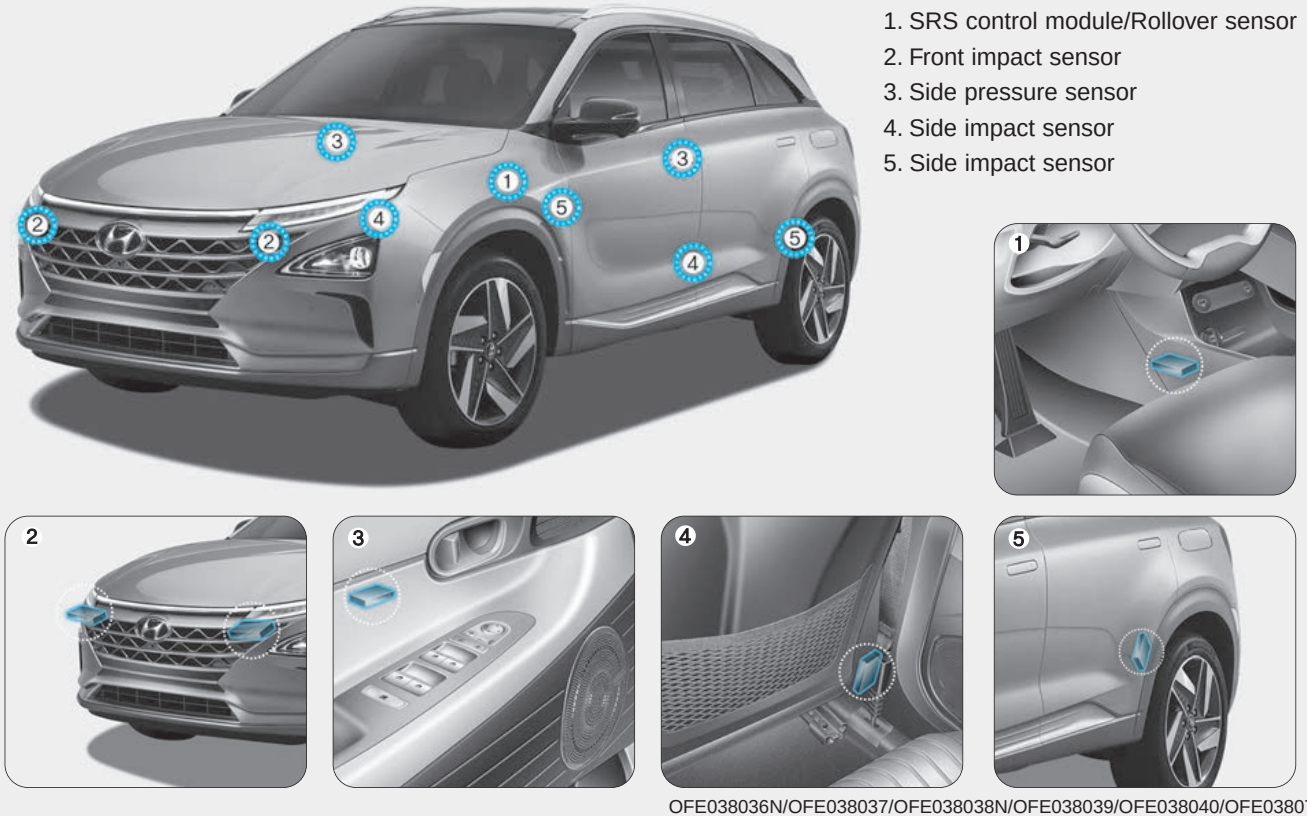
Air bags are not designed to inflate in every collision. There are certain types of accidents in which the air bag would not be expected to provide additional protection. These include rear impacts, second or third collisions in multiple impact accidents, as well as low speed impacts. Damage to the vehicle 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

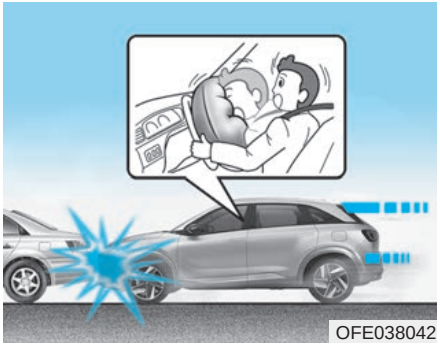
To reduce the risk of an air bag deploying unexpectedly and causing serious injury or death:

- **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.**
- **Do not install bumper guards or replace the bumper with a non-genuine HYUNDAI parts. This may adversely affect the collision and air bag deployment performance.**
- **Place the POWER button to the OFF position when the vehicle is being towed to prevent inadvertent air bag deployment.**
- **Have all air bag repairs conducted by an authorized HYUNDAI dealer.**



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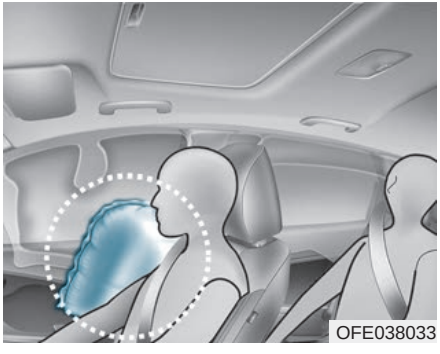
Air bag inflation conditions


OFE038042

Front air bags

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


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OFE038033

Side and curtain air bags

Side and curtain air bags 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.

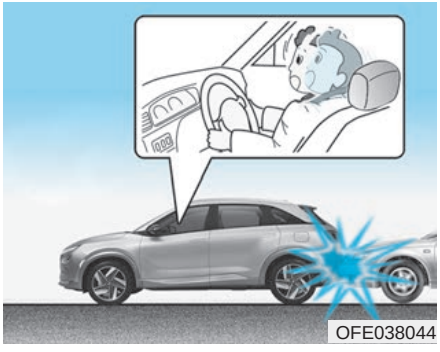
Although the driver's and front passenger's air bags are designed to inflate only in frontal collisions, they also may inflate in other types of collisions if the front impact sensors detect a sufficient impact. Side and curtain air bags are designed to inflate only in side impact collisions or rollover situations, but they may inflate in other collisions if the side impact sensors detect a sufficient impact.

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


OFE038043

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.

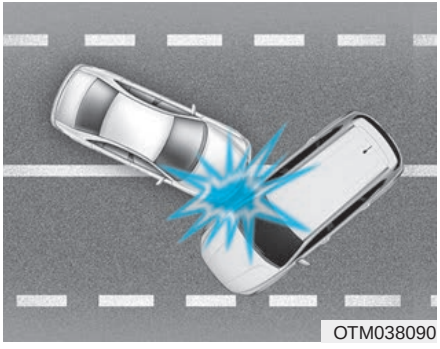

OFE038044

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.

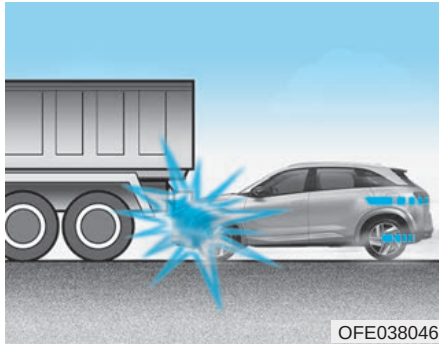

OFE038045N

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.

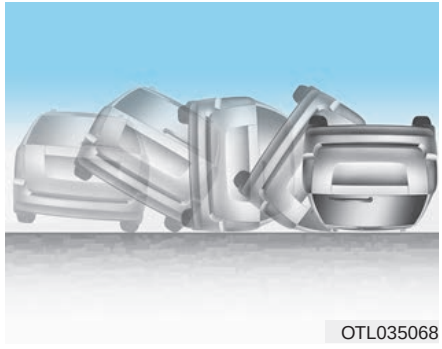
However, side and curtain air bags may inflate depending on the severity of impact.


OTM038090

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.

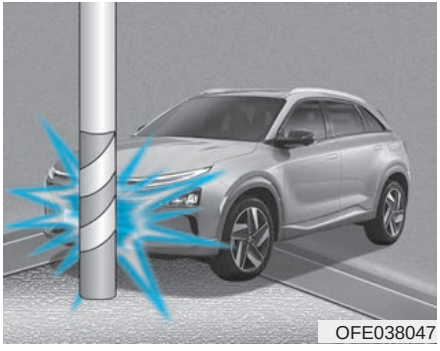

OFE038046

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.


OTL035068

Front air bags may not inflate in rollover accidents because air bag deployment could not provide protection to the occupants.

However, side and curtain air bags may inflate when the vehicle is rolled over by a side impact collision.


OFE038047

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 POWER button is in the ON position, or continuously remains on, have your vehicle immediately inspected by an authorized HYUNDAI dealer.

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 must 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, or 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.**
- **Always have inflated air bags 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. 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 POWER button is in the ON position may cause the air bags to inflate.

Modifications to accommodate disabilities. If you require modification to your vehicle to accommodate a disability, contact the HYUNDAI Customer Connect Center at 800-633-5151.

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


OFE038049N

Air bag warning labels, required by the U.S. National Highway Traffic Safety Administration (NHTSA), are attached to alert the driver and 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 Owners Manual.

ACTIVE HOOD LIFT SYSTEM (IF EQUIPPED)

The active hood lift system can reduce a risk of injury to pedestrians by raising the hood in certain accident situations. The active hood lift system has the additional deformation space under the hood, which is made available for subsequent head impact.

System activation

Prerequisite for activation

The POWER button is in the START position and the vehicle speed is between about 15.5 mph (25 km/h) and 31 mph (50 km/h).

Information

- Active hood lift system repair

- **If the active hood lift system has been activated, do not place the hood back by yourself. Have the system repaired by an authorized HYUNDAI dealer.**
- **If you change or repair the front bumper, have the system checked by an authorized HYUNDAI dealer.**

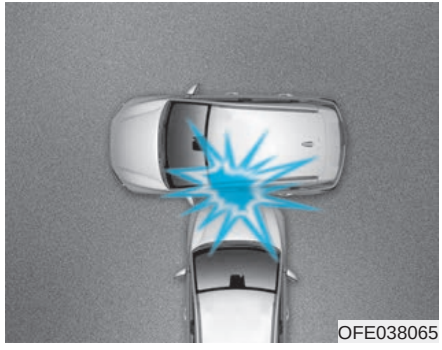
System activation

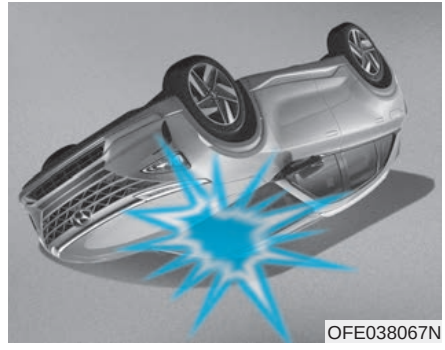
The active hood lift system is designed to work in a frontal collision depending on the intensity, speed or angles of impact of the front collision.

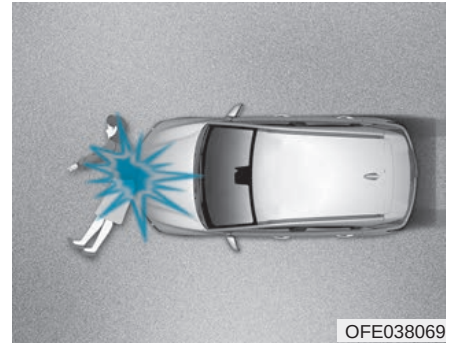
The system will activate when:

- There is a frontal collision with a pedestrian, an animal, an obstacle or a vehicle and certain operation conditions (intensity, speed, angle of impact, etc.) are met.

System limitation


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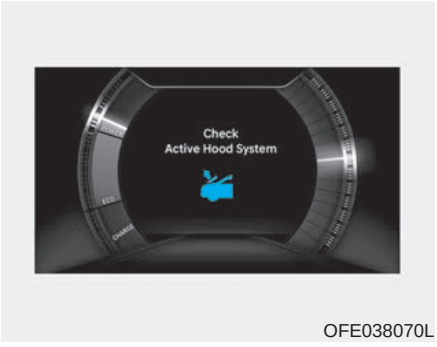

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The system will not activate when:

- In side, rear collisions and rollover accidents. The vehicle can detect only frontal collision.
- The front bumper is damaged or modified.
- The vehicle is in an angled frontal collision with pedestrians.
- A pedestrian is laying on the road.
- A pedestrian has an object to absorb the shock such as a suit case, buggy or cart.

System malfunction



OFE038070L

If there is a problem with the system a message will appear on the cluster LCD display.

This warning message means that the protection of pedestrians by the active hood lift system is not working properly.

If the warning message is displayed, have the system checked as soon as possible by an authorized HYUNDAI dealer.

Information

- **Do not remove or change the components and the wiring of the active hood system.**
- **Do not change the front bumper or the body structure.**
- **Do not install or assemble any aftermarket accessory on the front bumper or cover.**
- **When replacing tires, make sure they are the same size as your original tires. If you drive with different tire or wheel sizes, the active hood lift system may not work normally.**

The above situations may cause a malfunction of the active hood lift system.

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Smart Key

■ Type A



OFE048005

■ Type B



OFE048006N

Your HYUNDAI uses a Smart Key, which you can use to lock or unlock the driver and passenger doors or the rear liftgate.

1. Door Lock
2. Door Unlock
3. Liftgate Unlock
4. Panic
5. Remote Smart Parking Assist (if equipped)
6. Remote Start (if equipped)

Locking your vehicle



OFE048003

To lock your vehicle using the door handle button or the Smart Key:

1. Make sure all doors, the hood and the liftgate are closed.
2. Make sure you have the smart key in your possession.
3. Press either the button on the door handle or the Door Lock button (1) on the smart key. The chime will sound once and the hazard warning lights will blink.
4. Make sure the doors are locked by checking the position of the door lock button inside the vehicle.

Information

The door handle button will only operate when the smart key is within 28~40 inches (0.7~1 m) from the outside door handle.

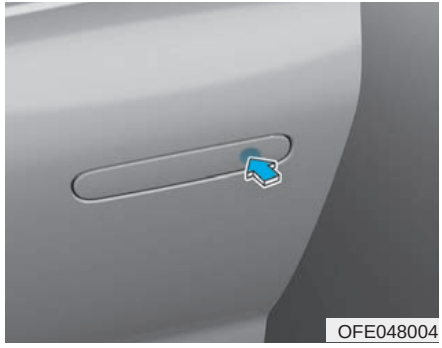
Note that you cannot lock your vehicle using the door handle button if any of the following occur:

- The Smart Key is in the vehicle.
- The POWER button is in ACC or ON position.
- Any of the doors are open except for the liftgate.

⚠ WARNING

Do not leave the Smart Key in your vehicle with unsupervised children. Unattended children could press the POWER button and may operate power windows or other controls, or even make the vehicle move, which could result in serious injury or death.

Unlocking your vehicle


OFE048004

To unlock your vehicle:

1. Make sure you have the smart key in your possession.
2. Press either the button on the door handle or the Door Unock button (2) on the smart key. The driver's door will unlock and the hazard warning lights will blink two times.

Two Press Unlock Feature

The priority for unlocking the driver door only, or unlocking all the doors with one press may be adjusted in the User Settings mode in the AVN LCD display.

The Two Press Unlock feature, when enabled, will require the user to press the door unlock button once for driver door only and twice for unlocking all the doors within 4 seconds.

Select or Deselect the Two Press Unlock feature in the User Settings mode in the AVN LCD display. The option can be found under the following menu:

Vehicle Settings mode → Door/Liftgate → Two Press Unlock

The Two Press Unlock feature can also be enabled or disabled by pressing the door lock and unlock buttons simultaneously on the Key FOB:

Press and hold both the Door Lock button and the Door Unlock button simultaneously until the hazard warning lights blink.

This will enable or disable the Two Press Unlock feature. Repeat this procedure to enable/disable the mode again.

Information

- **The door handle buttons will only operate when the smart key is within 28-40 inches (0.7~1m) from the outside door handle**
- **Either the driver or front passenger door can be opened with the door handle button when the smart key is within this range**
- **If you press the front passenger outside door handle with the smart key in your possession, all the doors will unlock**

Opening the liftgate

Non-power liftgate

To unlock and open the liftgate:

1. Make sure you have the smart key in your possession.
2. Press either the liftgate handle release switch on the vehicle or press and hold the Liftgate Unlock button on the smart key for more than one second. The hazard warning lights will blink two times and the liftgate latch will unlock.
3. Once the liftgate is opened and then closed, the liftgate will automatically re-lock after 30 seconds.

Information

- **The liftgate handle switch will only operate when the smart key is within 28 inches (0.7 m) from the liftgate handle.**
- **The Liftgate Unlock button (3) will only unlock the liftgate. It will not release the latch and open the liftgate automatically. If the Liftgate Unlock button is used, someone must still press the liftgate handle switch to open the liftgate.**

Power liftgate

To unlock and open the liftgate:

1. Make sure you have the smart key in your possession.
2. Press either the liftgate handle release switch on the vehicle or press and hold the Liftgate Unlock button on the smart key for more than one second. The hazard warning lights will blink two times and the liftgate latch will open.
3. Once the liftgate is opened and then closed, the liftgate will automatically re-lock after 30 seconds.

Information

The liftgate handle switch will only operate when the smart key is within 28 inches (0.7 m) from the liftgate handle.

Panic button

Press and hold the Panic button (4) for more than one second. The horn sounds and hazard warning lights blink for about 30 seconds. To cancel the panic mode, press any button on the Smart Key.

Start-up

You can start the vehicle without inserting the key.

For information, refer to the "POWER button" section in chapter 5.

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.**

Remote start (if equipped)

You can start the vehicle using the remote start button (6) of the smart key.

To start the vehicle remotely :

- Lock the doors by pressing the door lock button (1) within 32 ft (10 m) distance from the vehicle.
- Press the remote start button for over 2 seconds within 4 seconds after locking the doors.

Press the remote start button once to turn off the vehicle.

Air conditioner/heater system maintains the status before turning off the vehicle.

If no further action for operating/driving the vehicle is taken, the vehicle will be turned off 10 minutes after starting the vehicle remotely.

⚠ CAUTION

- **Laws in your country may restrict the use of remote start. You should check country regulations before using this remote starting system.**
- **It is only possible to start the vehicle remotely when shifted to P (Park).**
- **If the hood or the liftgate is opened, you cannot start the vehicle remotely.**
- **The Remote start function works the same as Blue Link remote start. For further caution information, refer to the separately supplied "Blue Link (AVN) manual".**

Remote Smart Parking Assist (RSPA) (if equipped)

The Remote Smart Parking Assist (RSPA) system helps the drivers park their vehicle by using sensors to measure parking spaces and control the steering wheel, gear shift and vehicle speed to semi-automatically park the vehicle and provide instruction on the AVN screen to help through parking.

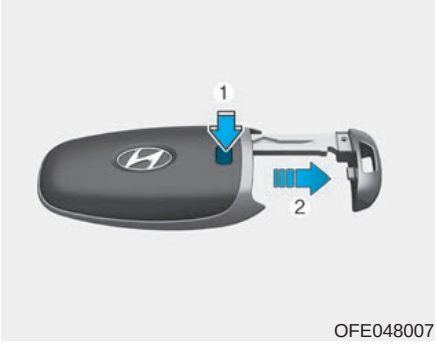
The driver can activate the RSPA system after measuring the parking spaces or using the smart key.

It is also possible to move the vehicle forward or backward using the buttons (5) on the smart key.

For more details, refer to "Remote Smart Parking Assist (RSPA)" in this chapter.

Mechanical key

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



OFE048007

To remove the mechanical key from the smart key FOB, slide the release lever in the direction of the arrow (1) and then pull the mechanical key (2) outward.

To unlock the vehicle using the mechanical key. insert the mechanical key into the key hole in the driver door (Refer to "DOOR LOCKS" in this chapter.)

To reinstall the mechanical key into the FOB, insert the key in the top of the key FOB and push inward until a click sound is heard.

Loss of a smart key

A maximum of two Smart Keys can be registered to a single vehicle. If you happen to lose your smart key, 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 cellular 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, 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 remote 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.

NOTICE

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.

Information

This device complies with Part 15 of the FCC rules.

Operation is subject to the following three conditions:

1. **This device may not cause harmful interference.**
2. **This device must accept any interference received, including interference that may cause undesired operation.**
3. **Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the device.**

Battery replacement



OFE048009



OFE048008

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

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, contact an authorized HYUNDAI dealer.

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 protects your vehicle from theft. If an improperly coded key (or other device) is used, the power system is disabled.

When the POWER button is placed in 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.

Place the POWER button to the OFF position, then place the POWER 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 your HYUNDAI dealer.

Do not attempt to alter this system or add other devices to it. Electrical problems could result that may make your vehicle inoperable.

⚠ WARNING

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.

i Information

This device complies with Part 15 of the FCC rules.

Operation is subject to the following three conditions:

1. **This device may not cause harmful interference.**
2. **This device must accept any interference received, including interference that may cause undesired operation.**
3. **Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the device.**

DOOR LOCKS

Door unlocking from outside the vehicle

Smart key


OFE048002


FE-TAG-13


FE-TAG-10

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 AVN screen.

Go to "Vehicle settings → Door/Tailgate → Approach unlock".

- When the "Approach unlock" is activated :
  - If you approach (within 40 in.(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.
- Unlock the door and pull the outside handle to open the door.
- Push the door to close.

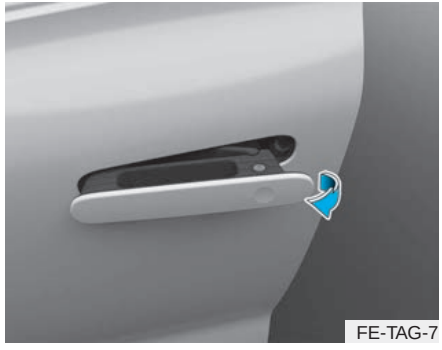
NOTICE

- **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.**

Mechanical key



1. Push the front side of the door handle.



2. Pull the rear side of the handle while holding it.



3. Open the plug by using the mechanical key.



4. Put the key and turn it clockwise.



5. Pull the handle.

NOTICE

Excessive force applied on the door and door handle may result in damage.

⚠ WARNING

- **Close the door tightly or door may reopen.**
- **Make sure the fingers or other body parts are not caught between the doors when opening/closing the doors.**
- **Make sure the fingers or other body parts are caught inside the handle while the handle is pulled. The door may not fully close if the handle is back to its normal position due to any foreign material.**

Door locking from outside the vehicle

Smart key



FE-TAG-11





FE-TAG-9/OFE048436L

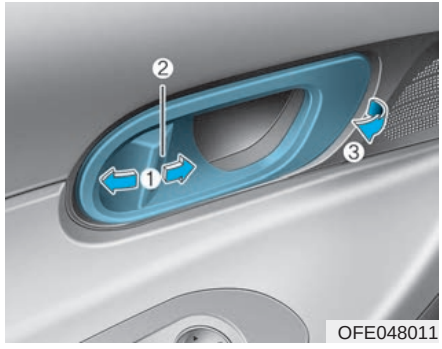


FE-TAG-12

- To lock the doors, press the button on the outside door handle while carrying the smart key with you. The handle will slide in as it's locked. In this case, Hazard Warning Flasher blinks and chime also sounds once.

Operating Door Locks from Inside the Vehicle

With the door lock button



OFE048011

- To unlock a door, push the door lock button (1) to the "Unlock" position. The red mark (2) on the door lock button will be visible.
- To lock a door, push the door lock button (1) to the "Lock" position. If the door is locked properly, the red mark (2) on the door lock button will not be visible.
- To open a door, pull the door handle (3) outward.

- If the inner door handle of either the driver door or passenger door is pulled when the door lock button is in the lock position, the button is unlocked and the door will open.
- The doors cannot be locked if the smart key is inside the vehicle and any of the doors are open.

Information

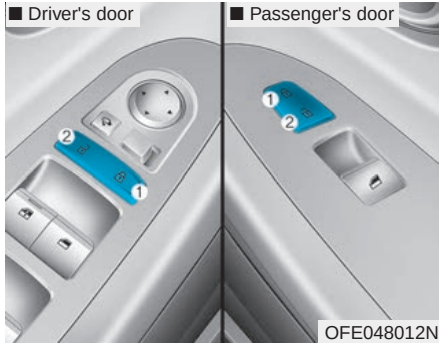
If a power door lock ever fails to function while you are in the vehicle try one or more of the following techniques to exit:

- **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.**

Information

When the vehicle's battery run out and you leave the vehicle, make sure all the doors are locked. You can lock the driver's door with a key and the rest of the doors with the lock button above the door inside handle.

With the central door lock switch



The driver side and front passenger side door armrest is equipped with a central door lock switch. The lock button is indicated by a (🔒) symbol. The unlock button is indicated by a (🔓) symbol.

When the lock button (1) is pressed, all the vehicle doors will lock.

When the unlock button (2) is pressed, all the vehicle doors will unlock.

If the smart key is in the vehicle and any door is open, the doors will not lock even though the lock button (1) is pressed.

⚠ 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 children or animals unattended in your vehicle. An enclosed vehicle can become extremely hot, causing death or serious injury to unattended children or animals who cannot escape 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, move the shift lever to the P (Park) position, engage the parking brake, and place the POWER button in the LOCK/OFF position, close all windows, lock all doors, and always take the key with you.

⚠ 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 to the P (Park) position, engage the parking brake, and place the POWER button in the OFF position, close all windows, lock all doors, and always take the key with you.

⚠ CAUTION

Opening a door when something is approaching may cause damage or injury. Be careful when opening doors and watch for vehicles, motorcycles, bicycles or pedestrians approaching the vehicle in the path of the door.

⚠ WARNING

If you stay in the vehicle for a long time while the weather is very hot or cold, there are risks of injuries or danger to life. Do not lock the vehicle from the outside when someone is in the vehicle.

Automatic Door Lock and Unlock Features

Your vehicle is equipped with features that will automatically lock or unlock your vehicle based on settings you select in the AVN LCD display.

Auto LOCK - Enable on Speed

When this feature is set in the AVN LCD display, all the doors will be locked automatically when the vehicle exceeds 9 mph (15 kph).

Auto LOCK - Enable on Shift

When this feature is set in the AVN LCD display, all the doors will be locked automatically when the vehicle is shifted out of P (Park) while the vehicle is ON.

Auto UNLOCK - On shift to P

When this feature is set in the AVN LCD display, all the doors will be unlocked automatically when the vehicle is shifted back into P (Park).

For more information on these features, refer to the LCD Display section later in this chapter.

Auto UNLOCK – On vehicle Off

When this feature is set in the AVN LCD display, all the doors will be unlocked automatically when the vehicle is off.

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



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 accidently 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.

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 occurs:

- A door is opened without using the smart key.
- The liftgate is opened without using the smart key.
- The 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 liftgate. For the system to activate, you must lock the doors and the liftgate from outside the vehicle with the smart key or by pressing the button on the outside of the door handles 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 liftgate, 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 liftgate, or any door is not fully closed. If the system will not set, check the hood, the liftgate, or the doors are fully closed.

Do not attempt to alter this system or add other devices to it.

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 (indicator ON) by directly pressing the POWER button with the smart key.**
- **When the system is disarmed but a door or liftgate is not opened within 30 seconds, the system will be rearmed.**

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, have the system checked by an authorized HYUNDAI dealer.

⚠ CAUTION

If the Electric Power Steering System does not operate normally, the warning light (⛐!) will illuminate on the instrument cluster. You may steer the vehicle, but it will require increased steering efforts. Take your 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 placing the POWER button in the ON position.**

  This happens as the system performs the EPS system diagnostics. When the diagnostics is completed, the steering wheel 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 POWER 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 temperature, abnormal noise may occur. If temperature rises, the noise will disappear. This is a normal condition.**
- **When an error is detected from the EPS, the assistant function of steering effort will not be activated in order to prevent fatal accidents. Instrument cluster warning lights may be on or the steering effort may be high. When the following symptoms occur, immediately drive the vehicle to a safe area and check it.**

Tilt Steering / Telescope Steering

Adjust the steering wheel so 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.



OFE048014

To change 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 height (3).
3. Pull up the lock-release lever to lock the steering wheel in place.

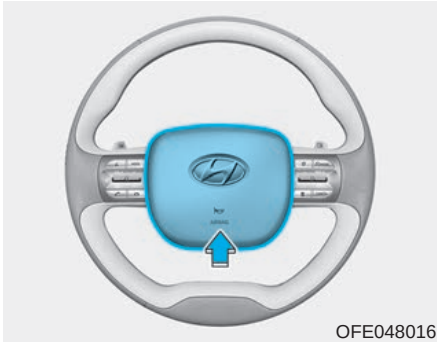
i Information

After adjustment, sometimes the lock release lever may not lock the steering wheel. It is not a malfunction. This occurs when two gears are not engaged correctly. In this case, adjust the steering wheel again and then lock the steering wheel.

⚠ CAUTION

While adjusting the steering wheel height, please do not push or pull it hard since the fixture can be damaged.

Horn

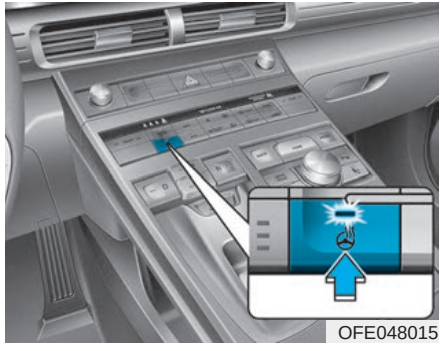

OFE048016

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)


OFE048015

When the POWER button is in the ON position or when the vehicle is in the ready ( ) mode, press the heated steering wheel button to warm the steering wheel. The indicator on the button will illuminate.

To turn the heated steering wheel off, press the button again. The indicator on the button will turn off.

The heated steering wheel will automatically turn off after approximately 30 minutes.

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.

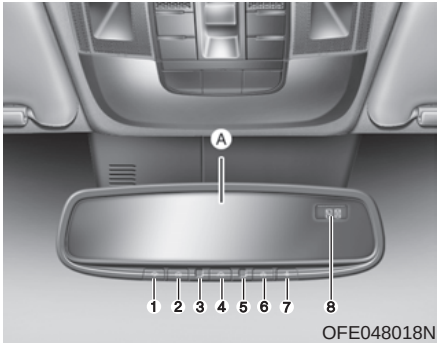
NOTICE

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.

Electric chromic mirror (ECM) with compass and HomeLink® system

Your vehicle may be equipped with a Gentex Automatic-Dimming Mirror with a Z-Nav™ Electronic Compass Display and an Integrated HomeLink® Wireless Control System.

During nighttime driving, this feature will automatically detect and reduce rearview mirror glare while the compass indicates the direction the vehicle is pointed. The HomeLink® Universal Transceiver allows you to activate your garage door(s), electric gate, home lighting, etc.



(1) Channel 1 button
(2) Channel 2 button
(3) Status indicator LED
(4) Channel 3 button
(5) Rear light sensor
(6) Dimming ON/OFF button
(7) Compass control button
(8) Compass display

Automatic-Dimming Night Vision Safety™ (NVS®) Mirror (if equipped)

The NVS® Mirror automatically reduces glare by monitoring light levels in the front and the rear of the vehicle. Any object that obstructs either light sensor will degrade the automatic dimming control feature.

For more information regarding NVS® mirrors and other applications, please refer to the Gentex website:

www.gentex.com

The auto-dimming function can be controlled by pressing the ON/OFF button:

1. Pressing the button turns the auto-dimming function OFF which is indicated by the green Status Indicator LED turning off.
2. Pressing the button again turns the auto-dimming function ON which is indicated by the green Status Indicator LED turning on.

The mirror defaults to the ON position each time the vehicle is started.

Z-Nav™ Compass Display

The NVS™ Mirror in your vehicle is also equipped with a Z-Nav™ Compass that shows the vehicle Compass heading in the Display Window using the 8 basic cardinal headings (N, NE, E, SE, etc.).

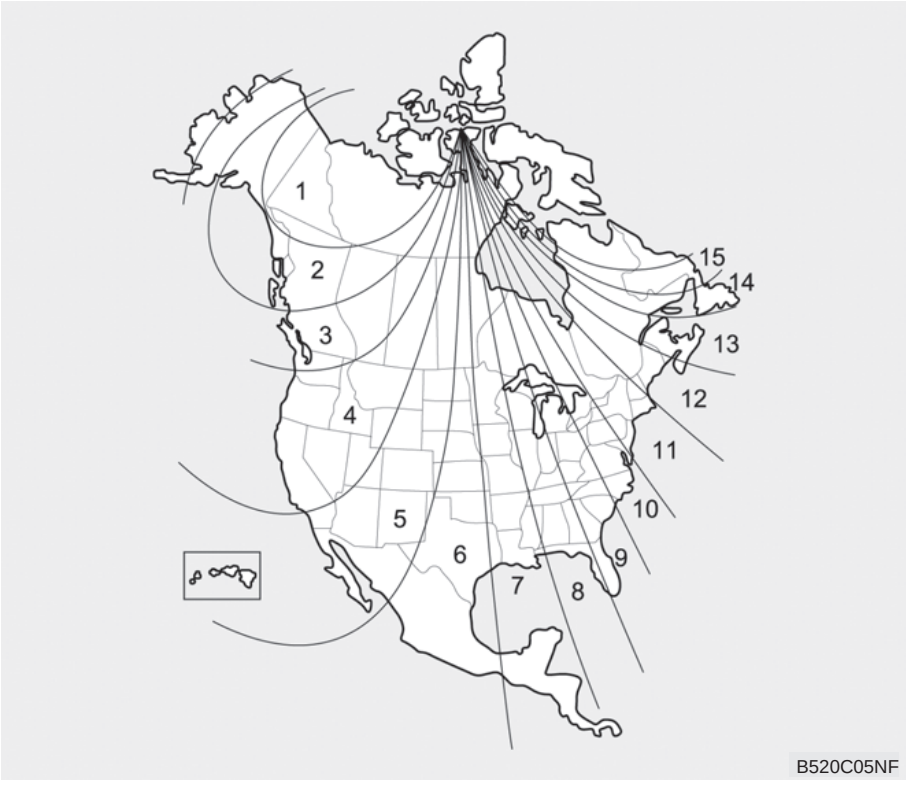
Compass function

The Compass can be turned ON and OFF and will remember the last state when the ignition is cycled. To turn the display feature ON/OFF:

1. Press and release the ⏻ button to turn the display feature OFF.
2. Press and release the ⏻ button again to turn the display back ON.

Additional options can be set with press and hold sequences of the button and are detailed below.

There is a difference between magnetic north and true north. To compensate for this difference you will need to adjust the Zone setting based on where you live.



To adjust the Zone setting:

1. Determine the desired Zone Number based upon your current location on the Zone Map.
2. Press and hold the ⏻ button for more than 3 but less than 6 seconds, the current Zone Number will appear on the display.
3. Pressing and holding the ⏻ button again will cause the numbers to increment (Note: they will repeat …13, 14, 15, 1, 2, …). Releasing the button when the desired Zone Number appears on the display will set the new Zone.
4. Within about 5 seconds the compass will start displaying a compass heading again.

There are some conditions that can cause changes to the vehicle magnets, such as installing a ski rack or a CB antenna. Body repair work on the vehicle can also cause changes to the vehicle's magnetic field. In these situations, the compass will need to be re-calibrated to quickly correct these changes.

If you need to recalibrate the compass:

1. Press and hold the ⏻ button for more than 6 seconds. When the compass memory is cleared a "C" will appear in the display.
2. Drive the vehicle in 2 complete circles at less than 5 mph (8 km/h).

Integrated HomeLink® Wireless Control System

The HomeLink® Wireless Control System can replace up to three handheld radio-frequency (RF) transmitters with a single built-in device. This innovative feature will learn the radio frequency codes of most current transmitters to operate devices such as gate operators, garage door openers, entry door locks, security systems, even home lighting. Both standard and rolling code-equipped transmitters can be programmed by following the outlined procedures.

Additional HomeLink® information can be found at: www.homelink.com or by calling 1-800-355-3515.

Retain the original transmitter of the RF device you are programming for use in other vehicles as well as for future HomeLink® programming. It is also suggested that upon the sale of the vehicle, the programmed HomeLink® buttons be erased for security purposes.

⚠ WARNING

Before programming HomeLink® to a garage door opener or gate operator, make sure people and objects are out of the way of the device to prevent potential harm or damage. Do not use the HomeLink® with any garage door opener that lacks the safety stop and reverse features required by U.S. federal safety standards (this includes any garage door opener model manufactured before April 1, 1982). A garage door that cannot detect an object - signaling the door to stop and reverse - does not meet current U.S. federal safety standards. Using a garage door opener without these features increases the risk of serious injury or death.

Programming HomeLink®

Please note the following:

- When programming a garage door opener, it is advised to park the vehicle outside of the garage.
- It is recommended that a new battery be placed in the hand-held transmitter of the device being programmed to HomeLink® for quicker training and accurate transmission of the radio-frequency signal.
- Some vehicles may require the POWER button to be placed in the ACC (or "Accessories") position for programming and/or operation of HomeLink®.
- In the event that there are still programming difficulties or questions after following the programming steps listed below, contact HomeLink® at: www.homelink.com or by calling 1-800-355-3515.

Rolling code programming

Rolling code devices which are "code-protected" and manufactured after 1996 may be determined by the following:

- Reference the device owner's manual for verification.
- The handheld transmitter appears to program the HomeLink® Universal Transceiver but does not activate the device.
- Press and hold the trained HomeLink button. The device has the rolling code feature if the indicator light flashes rapidly and then turns solid after 2 seconds.

To train rolling code devices, follow these instructions:

1. At the garage door opener receiver (motor-head unit) in the garage, locate the "learn" or "smart" button. This can usually be found where the hanging antenna wire is attached to the motor-head unit. Exact location and color of the button may vary by garage door opener brand. If there is difficulty locating the training button, reference the device owner's manual or please visit our Web site at www.homelink.com.
2. Firmly press and release the "learn" or "smart" button (which activates the "training light"). You will have 30 seconds to initiate step 3.
3. Return to the vehicle and firmly press, hold for two seconds and then release the desired HomeLink® button. Repeat the "press/hold/release" sequence a second time to complete the programming. (Some devices may require you to repeat this sequence a third time to complete the programming.)
4. Press and hold the just-trained HomeLink® button and observe the red Status Indicator LED. If the indicator light stays on constantly, programming is complete and your device should activate.
5. To program the remaining two HomeLink® buttons, follow either steps 1 through 4 above for other Rolling Code devices or steps 2 through 5 in Standard Programming for standard devices.

Standard programming

To train most devices, follow these instructions:

1. For first-time programming, press and hold the two outside buttons, HomeLink® Channel 1 and Channel 3 Buttons, until the indicator light begins to flash (after 20 seconds). Release both buttons. Do not hold the buttons for longer than 30 seconds.
2. Position the end of your hand-held transmitter 1-3 inches (2-8 cm) away from the HomeLink® buttons while keeping the indicator light in view.
3. Simultaneously press and hold both the HomeLink® and hand-held transmitter button. DO NOT release the buttons until step 4 has been completed.
4. While continuing to hold the buttons the red Indicator Status LED will flash slowly and then rapidly after HomeLink® successfully trains to the frequency signal from the hand-held transmitter. Release both buttons.

5. Press and hold the just-trained HomeLink® button and observe the red Status Indicator LED. If the indicator light stays on constantly, programming is complete and your device should activate when the HomeLink® button is pressed and released.
6. To program the remaining two HomeLink® buttons, follow steps 2 through 5.

Gate operator & Canadian programming

During programming, your handheld transmitter may automatically stop transmitting. Continue to press the Integrated HomeLink® Wireless Control System button (note steps 2 through 4 in the Standard Programming portion of this document) while you press and re-press ("cycle") your handheld transmitter every two seconds until the frequency signal has been learned. The indicator light will flash slowly and then rapidly after several seconds upon successful training.

Operating HomeLink®

To operate, simply press and release the programmed HomeLink® button. Activation will now occur for the trained device (i.e. garage door opener, gate operator, security system, entry door lock, home/office lighting, etc.). For convenience, the hand-held transmitter of the device may also be used at any time.

Reprogramming a single HomeLink® button

To program a new device to a previously trained HomeLink® button, follow these steps:

1. Press and hold the desired HomeLink® button. Do NOT release until step 4 has been completed.
2. When the indicator light begins to flash slowly (after 20 seconds), position the handheld transmitter 1 to 3 inches away from the HomeLink® surface.
3. Press and hold the handheld transmitter button. The HomeLink® indicator light will flash, first slowly and then rapidly.
4. When the indicator light begins to flash rapidly, release both buttons.
5. Press and hold the just-trained HomeLink® button and observe the red Status Indicator LED. If the indicator light stays on constantly, programming is complete and your new device should activate.

Erasing HomeLink® buttons

Individual buttons cannot be erased. However, to erase all three programmed buttons:

1. Press and hold the two outer HomeLink® buttons until the indicator light begins to flash-after 20 seconds.
2. Release both buttons. Do not hold for longer than 30 seconds.

The Integrated HomeLink® Wireless Control System is now in the training (learn) mode and can be programmed at any time following the appropriate steps in the Programming chapters above.

NVS® is a registered trademark and Z-Nav™ is a trademark of the Gentex Corporation, Zeeland, Michigan. HomeLink® is a registered trademark owned by Johnson Controls, Incorporated, Milwaukee, Wisconsin.

FCC ID : NZLHFCHL4

IC : 4112A-HFCHL4

Information

This device complies with Part 15 of the FCC Rules.

Operation is subject to the following three conditions:

1. **This device may not cause harmful interference, and**
2. **This device must accept any interference received, including interference that may cause undesired operation.**
3. **The transceiver has been tested and complies with FCC and Industry Canada rules. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the device.**

Information

FOR CANADA

This device complies with Industry Canada Standard RSS-210.

Operation is subject to the following three conditions:

1. **This device may not cause harmful interference, and**
2. **This device must accept any interference received, including interference that may cause undesired operation.**
3. **The transceiver has been tested and complies with FCC and Industry Canada rules. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the device.**

Side View Mirrors


OFE048019

Make sure to adjust the side view mirrors to your desired position before you begin driving.

Your vehicle is equipped with both left-hand and right-hand side view mirrors. The mirrors can be adjusted remotely with the remote switch. The side view mirrors can be folded to help prevent damage when going through an automatic car wash or when passing through a narrow street.

The right side view 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.

⚠ WARNING

Do not adjust or fold the side view 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 spray 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.**

NOTICE

Do not clean the mirror with harsh abrasives, fuel or other petroleum based cleaning products.

Side view mirror adjustment



OFE048430L

Adjusting the side view mirrors:

1. Press either the L (driver's side) or R (passenger's side) button (1) to select the side view mirror you would like to adjust.
2. Use the mirror adjustment control switch (2) to position the selected mirror up, down, left or right.

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 side view mirrors by hand, because this can damage the motor.**

Folding the side view mirror


OFE048021

The side view mirror can be folded or unfolded by pressing the switch.

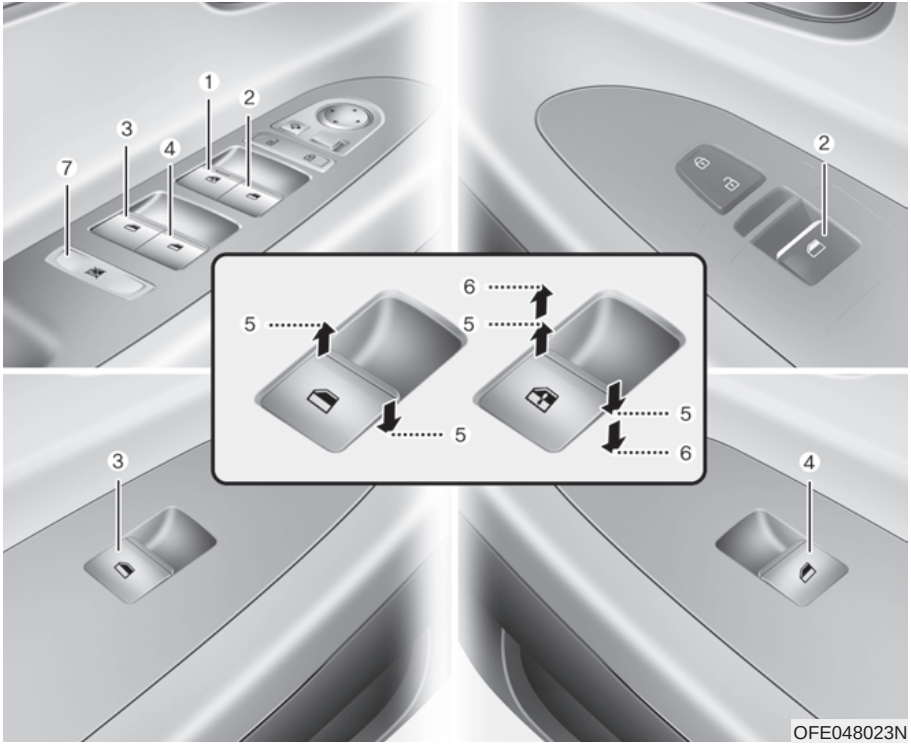
- If 'Convenience → Welcome mirror/light → On door unlock' is selected in the vehicle Settings mode on the AVN screen, the side view mirror will fold or unfold automatically as follows:
  - The mirror will fold or unfold when the door is locked or unlocked by the smart key.
  - The mirror will fold or unfold when the door is locked or unlocked by the button on the outside door handle.
- If 'Convenience → Welcome mirror/light → On door unlock' and 'Convenience → Welcome mirror/light → On driver approach' is selected in the vehicle Settings mode on the AVN screen, the side view mirror will unfold automatically when you approach the vehicle (all doors closed and locked) with a smart key in possession.

NOTICE

The electric type side view mirror operates even though the POWER 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 in the ready ( ) mode.

NOTICE

Do not fold the electric type side view mirror by hand. It could cause motor failure.



(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 (if equipped)
(7) Power window lock switch

Power Windows

The POWER 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 switch which can block the operation of rear passenger windows. The power windows will operate for approximately 10 minutes after the POWER button is placed in the ACC or OFF position. However, if the front doors are opened, the Power Windows will not operate even within the 10 minutes period.

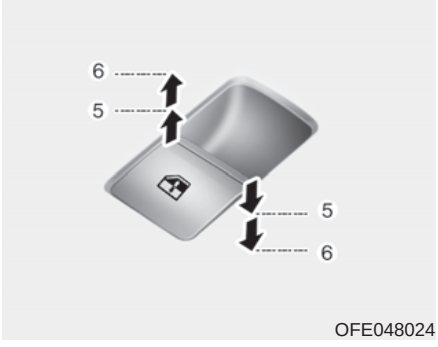
⚠ WARNING

To avoid serious injury or death, do not extend your head, arms or body outside the windows while driving.

Information

- **In cold and wet climates, power windows may not work properly due to freezing conditions.**
- **While driving with the rear windows down or with the sunroof (if equipped) opened (or partially opened), your vehicle may demonstrate a wind buffeting or pulsation noise. This noise is normal and can be reduced or eliminated by taking the following actions. If the noise occurs with one or both of the rear windows down, partially lower both front windows approximately one inch. If you experience the noise with the sunroof open, slightly close the sunroof.**

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 (if equipped)

Pressing or pulling up 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.

To reset the power windows

If the power windows do not operate normally, the automatic power window system must be reset as follows:

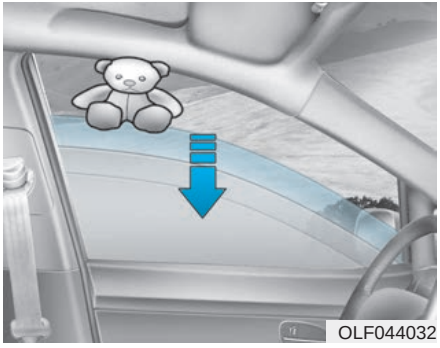
1. Place the POWER button to the ON position.
2. Close the window and continue pulling up on the power window switch for at least one second.

If the power windows do not operate properly after resetting, have the system checked 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 equipped)



If a window senses any obstacle while it is closing automatically, it will stop and lower approximately 12 inches (30 cm) 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 1 inch (2.5 cm).

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.

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 0.16 inch (4 mm) 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.

NOTICE

Do not install any accessories on the windows. The automatic reverse feature may not operate.

Power window lock switch


OFE048025

The driver can disable the power window switches on the rear passenger doors by pressing the power window lock switch.

When the power window lock switch 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 switch 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.**

SUNROOF (IF EQUIPPED)


OFE048026N

If your vehicle is equipped with a sunroof, you can slide or tilt your sunroof with the sunroof control switch located on the overhead console.

The sunroof can be opened, closed, or tilted when the POWER button is in the ON position.

The sunroof can be operated for approximately 10 minutes after the POWER button is in the ACC or OFF position.

However, if the front door is opened, the sunroof cannot be operated even within 10 minutes.

Information

- **In cold and wet climates, the sunroof may not work properly due to freezing conditions.**
- **After the vehicle is washed or in a rainstorm, be sure to wipe off any water that is on the sunroof before operating it.**

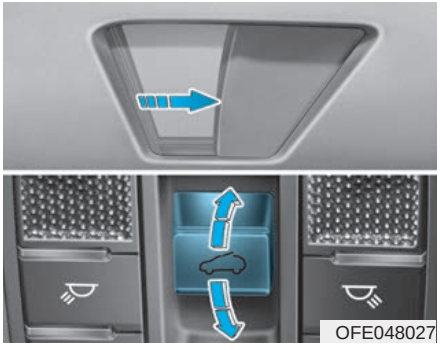
⚠ WARNING

- **Never adjust the sunroof or sunshade while driving. This could result in loss of control and an accident that may cause death, serious injury, or property damage.**
- **Make sure heads, other body parts or objects are out of the way before using the sunroof.**
- **Do not extend your head, arms or body outside the sunroof while driving, to avoid serious injury.**
- **Do not leave the vehicle on and the key in your vehicle with unsupervised children. Unattended children could operate the sunroof, which could result in serious injury.**
- **Do not sit on the top of the vehicle. It may cause injuries or vehicle damage.**

NOTICE

- **Do not continue to move the sunroof control lever after the sunroof is fully opened, closed, or tilted. Damage to the motor or system components could occur.**
- **Make sure the sunroof is closed fully when leaving your vehicle. If the sunroof is open, rain or snow may leak through the sunroof and wet the interior as well as cause theft.**

Sunroof Opening and Closing



To open:

Press the sunroof control lever backward to the first detent position. Release the switch when you want the sunroof to stop.

To close:

Press the sunroof control lever forward to the first detent position. Release the switch when you want the sunroof to stop.

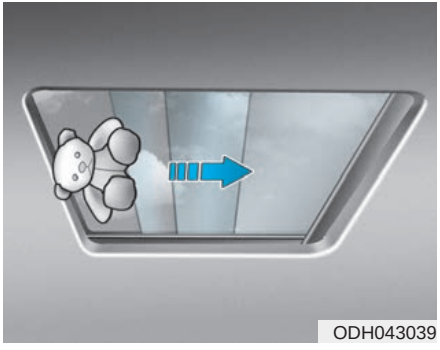
Sliding the Sunroof

Pressing the sunroof control lever backward or forward momentarily to the second detent position completely opens or closes the sunroof even when the switch is released. To stop the sunroof at the desired position while the sunroof is in operation, press the sunroof control lever backward or forward and release the switch.

Information

To minimize wind noise while driving, it is recommended that you drive with the sunroof slightly closed (stop the sunroof about 3 inch (7 cm) before the maximum slide open position).

Automatic reverse (if equipped)



If the sunroof senses any obstacle while it is closing automatically, it will reverse direction then stop to allow the object to be cleared.

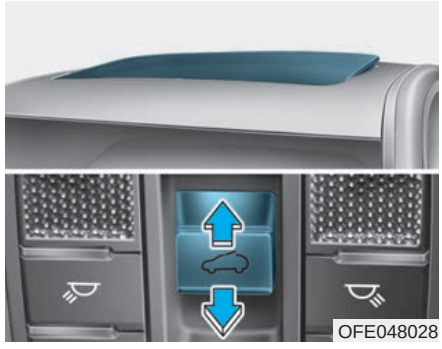
The auto reverse function does not work if a small obstacle is between the sliding glass and the sunroof sash.

You should always check that all passengers and objects are away from the sunroof before closing it.

⚠ WARNING

Small objects that can get caught between the sunroof glass and the front glass channel may not be detected by the automatic reverse system. In this case, the sunroof glass will not detect the object and will not reverse direction.

Tilting the Sunroof


OFE048028

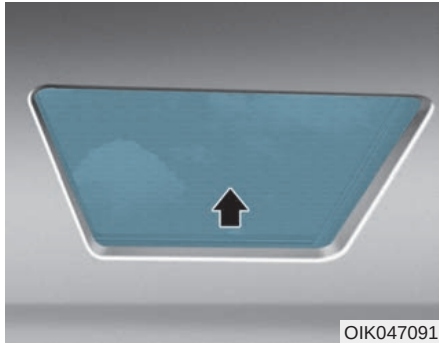
Tilt the sunroof open:

Push the sunroof control lever upward until the sunroof moves to the desired position.

To close the sunroof:

Push the sunroof control lever forward until the sunroof moves to the desired position.

Sunshade


OIK047091

The sunshade will open automatically with the sunroof when the glass panel moves. If you want it closed, move the sunshade manually.

NOTICE

The sunroof is made to slide together with the sunshade. Do not leave the sunshade closed while the sunroof is open.

Resetting the Sunroof

Sunroof needs to be reset if the following occurs :

- Battery is discharged or disconnected or the related fuse has been replaced or disconnected
- The one-touch sliding function of the sunroof does not normally operate

Reset procedure :

1. Place the POWER button to the ON position or start the vehicle (indicator ON). It is recommended to reset the sunroof while the vehicle is in the ready ( ) mode.
2. Push the control lever forward. The sunroof will close completely or tilt depending on the condition of the sunroof.
3. Release the control lever when the sunroof stops moving.
4. Push the control lever forward about 10 seconds.
   - When the sunroof is in the closed position :

     The glass will tilt and slightly move up and down.
   - When the sunroof is in the tilt position:

     The glass will slightly move up and down.

Do not release the lever until the operation is completed.

If you release the lever during operation, start the procedure again from step 2.

5. Within 3 seconds, push and hold the control lever forward until the sunroof operates as follows:

   Tilt down → Slide Open → Slide Close.

Do not release the lever until the operation is completed.

If you release the lever during operation, start the procedure again from step 2.

6. Release the sunroof control lever after all steps have completed. The sunroof system has been reset.

Information

- **If the sunroof is not reset when the vehicle battery is disconnected or discharged, or the sunroof fuse is blown, the sunroof may not operate normally.**
- **For more detailed information, contact an authorized HYUNDAI dealer.**

Sunroof Open Warning (if equipped)



OFE048148

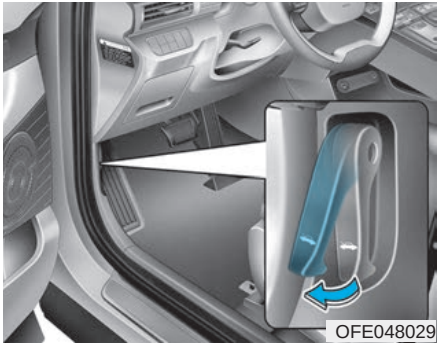
- If the driver turns off the vehicle when the sunroof is not fully closed, the warning chime will sound for approximately 3 seconds and the sunroof open warning will appear on the LCD display.
- If the driver turns off the vehicle and opens the door when the sunroof is not fully closed, the open sunroof warning will appear on the LCD display until the door is closed or the sunroof is fully closed.

Close the sunroof securely when leaving your vehicle.

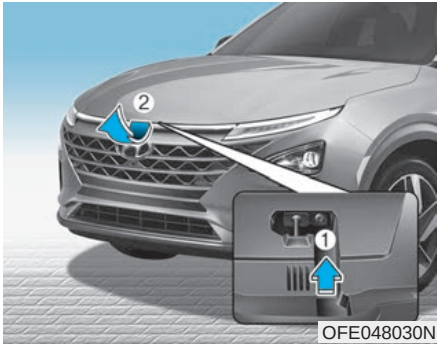
EXTERIOR FEATURES

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 up the secondary latch (1) inside of the hood center and lift the hood (2). After it has been raised about halfway, it will raise completely by itself.

Closing the hood

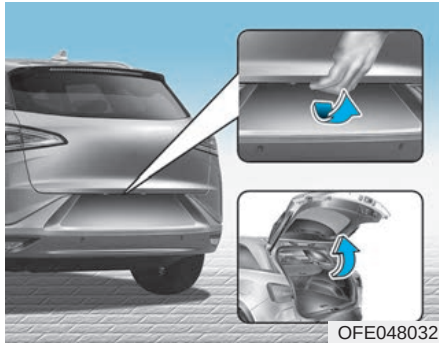
1. Before closing the hood, check the following:
   - All filler caps in fuel cell power module compartment must be correctly installed.
   - Gloves, rags or any other combustible material must be removed from the fuel cell power module compartment.
2. Lower the hood halfway (lifted approximately 12 inches (30 cm) from the closed position) and push down to securely lock in place. Then double check to be sure the hood is secure. If the hood can be raised slightly, it is not securely locked. Open it again and close it with more force.

⚠ WARNING

- **Before closing the hood, ensure all obstructions are removed from around the hood opening.**
- **Always double check to 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.**

Non-Powered Liftgate (if equipped)

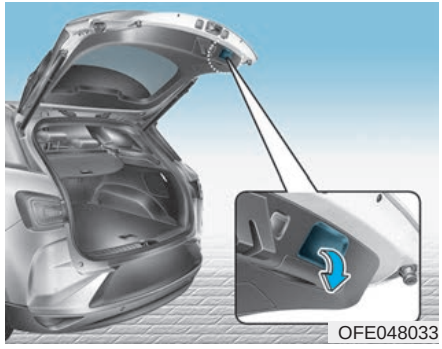
Opening the liftgate


OFE048032

Before attempting to open the liftgate, make sure the vehicle is in P (Park). To open the liftgate, perform one the following:

1. Unlock all doors with the Door Unlock button on your smart key. From outside press the liftgate handle switch and open the liftgate.
2. Press and hold the Liftgate Unlock button on the smart key. From outside press the liftgate handle switch and open the liftgate.
3. With the Smart Key in your possession, press the liftgate handle switch and open the liftgate.

Closing the liftgate


OFE048033

Lower the liftgate lid and press down until it locks. To be sure the liftgate lid is securely fastened, always check by trying to pull it up again without pressing the liftgate handle switch.

i Information

In cold and wet climates, door lock and door mechanisms may not work properly due to freezing conditions.

⚠ WARNING

The liftgate swings upward. Make sure no objects or people are near the rear of the vehicle when opening the liftgate.

NOTICE

Make certain that you close the liftgate before driving your vehicle. Possible damage may occur to the liftgate struts and mounting hinges if the liftgate is not closed prior to driving.

⚠ WARNING

Always keep the liftgate completely closed while the vehicle is in motion. If it is left open or ajar, poisonous exhaust gases containing carbon monoxide (CO) may enter the vehicle and serious illness or death may result.

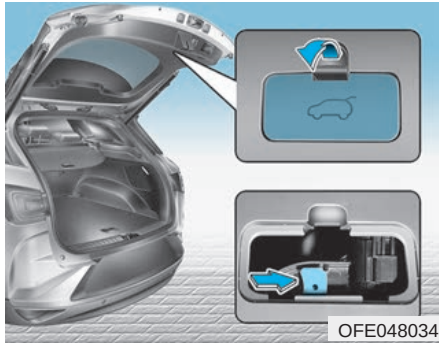
⚠ WARNING



OFE048035

Do not hold on to or try to pull on the liftgate strut. Be aware that the deformation of the liftgate strut may cause vehicle damage and risk of injury.

Emergency liftgate safety release



OFE048034

Your vehicle is equipped with an emergency liftgate safety release lever located on the bottom of the liftgate inside the vehicle.

To unlock and open the liftgate manually from inside the luggage compartment, perform the following steps:

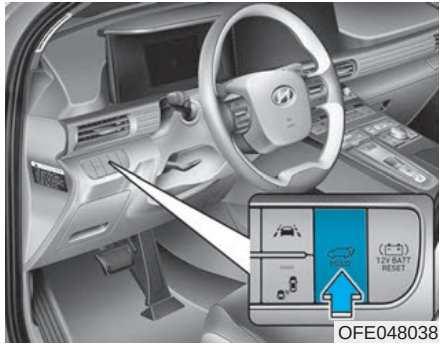
1. Remove the cover.
2. Push the release lever to the right.
3. Push the liftgate outward and upward.

⚠ WARNING

- **Be aware of the location of the emergency liftgate safety release lever in your vehicle and know how to open the liftgate using the safety release lever.**
- **No one 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 a crash.**
- **Use the release lever for emergencies only. Use extreme caution, especially while the vehicle is in motion.**

Power Liftgate (if equipped)

Power liftgate button



OFE048038

Power liftgate setting

When the POWER button is in the ON position and the shift button is in P (Park), the power liftgate can be opened by using the console button on the dash.

Before using the power liftgate, make sure the power liftgate option is selected in the Vehicle Setting modes in the AVN LCD display.

'Vehicle Settings → Door/Liftgate → Power Liftgate'

Also, the speed of the power liftgate can be adjusted in the Vehicle Settings mode in the AVN LCD display.

'Vehicle Settings → Door/Liftgate → Power Liftgate Speed → Fast/Slow'

- If the power liftgate function turns off or the liftgate is not fully closed, you cannot adjust the power liftgate speed.
- Initial speed of power liftgate is set as "Fast".

For more details, refer to the separately supplied Navigation manual.

Information

The power liftgate operates only when the shift button is in P (Park).

⚠ WARNING

Never leave children unattended in your vehicle. Children might operate the power liftgate. Doing so could result in injury to themselves or others, and could damage the vehicle.

⚠ WARNING

Make sure there are no people or objects around the liftgate before operating the power liftgate. Wait until the liftgate is opened fully and stopped before loading or unloading cargo or passengers from the vehicle.

NOTICE

Do not close or open the power liftgate manually. This may cause damage to the power liftgate. If it is necessary to close or open the power liftgate manually when the battery is discharged or disconnected, do not apply excessive force.

Opening the liftgate

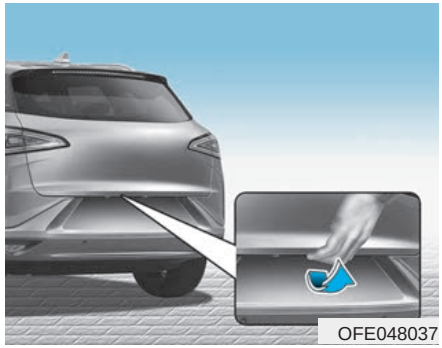
The power liftgate will open automatically by doing one of the following:



OFE048036

Smart key liftgate unlock button

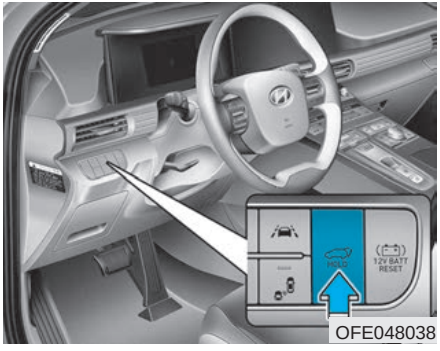
Press and hold the liftgate unlock button on the smart key.



OFE048037

Power liftgate handle switch

Press the liftgate outside handle switch while having the smart key with you.



OFE048038

Power liftgate button

Press the power liftgate button for approximately one second.

In order to suddenly stop the movement of the liftgate while it is operating, quickly press the power liftgate button.

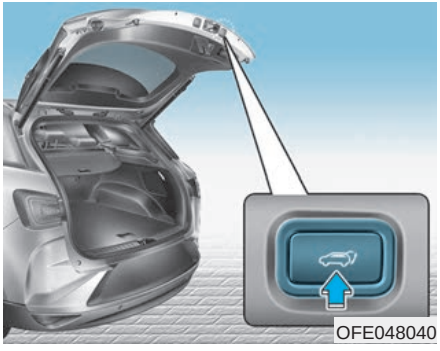
Closing the liftgate

The power liftgate will close automatically by doing one of the following:


OFE048036

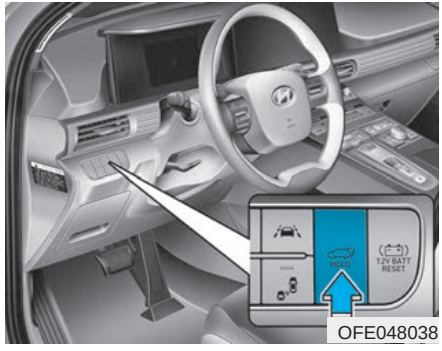
Smart key liftgate unlock button

Press and hold the liftgate unlock button on the smart key when the liftgate is opened. The liftgate will close and lock automatically.


OFE048040

Power liftgate inner button

Press the power liftgate inner button for approximately 1 second. The liftgate will close and lock automatically.



Power liftgate button

Press the power liftgate button for approximately one second. In order to suddenly stop the movement of the liftgate while it is operating, quickly press the power liftgate button.

In order to suddenly stop the movement of the liftgate while it is operating, quickly press the power liftgate button.

Power liftgate non-opening conditions

The power liftgate does not open when the vehicle is in motion.

⚠ WARNING

The chime will sound if you drive with the liftgate opened.

Stop your vehicle immediately at a safe place and check if your liftgate is opened.

⚠ CAUTION

Operating the power liftgate more than 5 times continuously could cause damage to the operating motor. In this case, the power liftgate system enters into thermal protection mode to prevent the motor from overheating.

In thermal protection mode the power liftgate will not operate. If any of the power liftgate buttons are pressed to try to open the liftgate, the chime will sound 3 times but the liftgate will remain closed.

Allow the power liftgate system to cool for about 1 minute before operating the system again.

NOTICE

- **The power liftgate can be operated when the vehicle is not running. However, the power liftgate operation consumes a large amount of electic power.**

  To prevent the battery from being discharged, do not operate it excessively (e.g. more than 5 times repeatedly).
- **To prevent the battery from being discharged, do not leave the power liftgate in the open position for a long time.**
- **Do not modify or repair any part of the power liftgate by yourself. This must be done by an authorized HYUNDAI dealer.**
- **When jacking up the vehicle to change a tire or repair the vehicle, do not operate the power liftgate. This could cause the power liftgate to operate improperly.**
- **In cold and wet climates, the power liftgate may not work properly due to freezing conditions.**

Automatic reversal


OFE048039

During power opening and closing if the power liftgate is blocked by an object or part of the body, the power liftgate will detect the resistance.

If resistance is detected while opening or closing the power liftgate, the liftgate will stop and move in the opposite direction.

However, in some instances the automatic reversal system may not detect the object if it is too soft or is very thin, or if the liftgate is almost fully closed near the latched position. Caution should be taken to prevent any objects from obstructing the liftgate opeining.

If the automatic reversal feature operates more than 2 times while attempting to open or close the liftgate, the power liftgate may stop at that position. If this occurs, carefully close the liftgate manually, and then try to operate the power liftgate automatically again.

⚠ WARNING

Never intentionally place any object or part of your body in the path of the power liftgate to make sure the automatic reversal operates.

⚠ CAUTION

Do not put heavy objects on the power liftgate before you operate the power liftgate feature. Additional weight may damage the operation of the system.

How to reset the power liftgate

If the battery has been discharged or disconnected, or if the power liftgate fuse has been replaced or removed, reset the power liftgate by performing the following procedure:

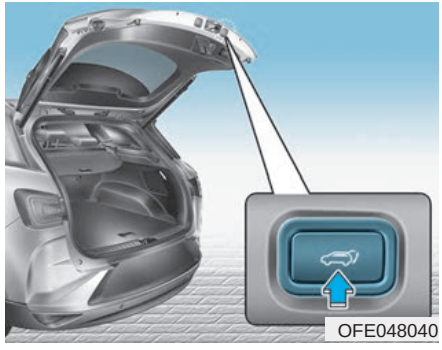
1. Put the shift button in P (Park).
2. Press the power liftgate inner button and the power liftgate outer handle button simultaneously for more than 3 seconds. The chime will sound.
3. Close the liftgate manually.

If the power liftgate does not work properly after the above procedure, have the system checked by an authorized HYUNDAI dealer.

NOTICE

When operating the power liftgate, the gear shift button must be in the (P) park position in order to operate normally.

Power liftgate opening height user setting


OFE048040

Follow the instructions below to set the fully open height of the power liftgate:

1. Position the liftgate manually to the height you prefer.
2. Press the power liftgate inner button for more than 3 seconds.
3. Close the liftgate manually after hearing the buzzer sound.

The liftgate will open to the manually adjusted height that was set.

⚠ WARNING

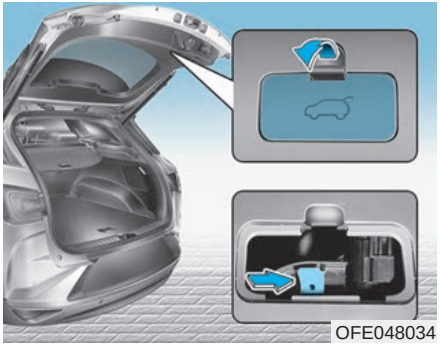
Always keep the liftgate completely closed while the vehicle is in motion. If it is left open or ajar, poisonous exhaust gases containing carbon monoxide (CO) may enter the vehicle and serious illness or death may result.

⚠ WARNING

Rear cargo area

Occupants should never ride in the rear cargo area where no restraints are available. To avoid injury in the event of an accident or sudden stops, occupants should always be properly restrained.

Emergency liftgate safety release


OFE048034

Your vehicle is equipped with an emergency liftgate safety release lever located on the bottom of the liftgate inside the vehicle.

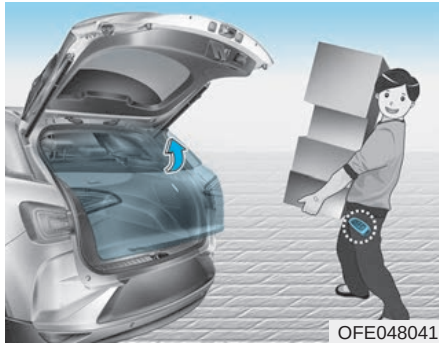
To unlock and open the liftgate manually from inside the luggage compartment, perform the following steps:

1. Remove the cover.
2. Push the release lever to the right.
3. Push the liftgate outward and upward.

⚠ WARNING

- **Be aware of the location of the emergency liftgate safety release lever in your vehicle and know how to open the liftgate using the safety release lever.**
- **No one 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 a crash.**
- **Use the release lever for emergencies only. Use extreme caution, especially while the vehicle is in motion.**

Smart Liftgate (if equipped)


OFE048041

On vehicles equipped with a smart key, the liftgate can be opened with hands-free activation using the Smart Liftgate system.

How to use the Smart Liftgate

The hands-free smart liftgate system can be opened automatically when the following conditions are met:

- The Smart Liftgate option is enabled in the User Settings in the AVN screen.
- The Smart Liftgate is activated and ready 15 seconds after all the doors are closed and locked
- The Smart Liftgate will open when the smart key is detected in the area behind the vehicle for 3 seconds

Information

The Smart Liftgate will NOT operate when:

- **Any door is open, or all doors are closed but not locked**
- **The smart key is detected within 15 seconds from when the doors were closed and locked**
- **For vehicles equipped with illuminated exterior front door handles, if the smart key is detected within 15 seconds from when the doors were closed and locked or if the smart key is within 60 inches (1.5m) from the front door handles**
- **The smart key is in the vehicle.**

1. Setting

To activate the Smart Liftgate, go to "Vehicle settings → Door/Tailgate" and select Smart Tailgate (Liftgate) on the AVN screen.

For more information refer to the separately supplied Navigation manual.

2.Detect and Alert

The Smart Liftgate detecting area extends approximately 20-40 in (50-100 cm) 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 liftgate will open.

Information

Do not approach the detecting area if you do not want the liftgate 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 liftgate will remain closed.

3. Automatic opening

After the hazard warning lights blink and the chime sounds 6 times, the power liftgate will open.

⚠ WARNING

- **Make certain that you close the liftgate before driving your vehicle.**
- **Make sure there are no people or objects around the liftgate before opening or closing the liftgate.**
- **Make sure objects in the rear cargo area do not come out when opening the liftgate, especially if the vehicle is parked on a grade or incline.**
- **If you keep your vehicle parked and locked on your driveway, you may want to temporarily deactivate the Smart Liftgate system. Otherwise, standing at the rear of the vehicle with the smart key may cause the liftgate to open unintentionally.**

- **The key should be kept out of reach of children. Children may inadvertently open the Smart Liftgate while playing around the rear area of the vehicle.**

How to deactivate the Smart Liftgate function using the smart key



OFE048005

1. Door lock
2. Door unlock
3. Liftgate open
4. Panic

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

Make sure to be aware of how to deactivate the Smart Liftgate function for emergency situations.

Information

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

Detecting area



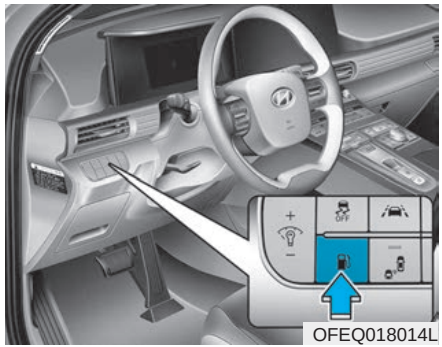
- The Smart Liftgate detecting area extends approximately 20-40 in (50-100 cm) behind the vehicle. If you are positioned in the detecting area and are carrying the smart key, the hazard warning lights will blink and the chime will sound for about 3 seconds to alert you that the smart liftgate will open.
- The alert stops once the smart key is moved outside of the detecting area within the 3 second period.

Information

- **The Smart Liftgate function may not operate properly if any of the following instances 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 cellular phone.**
  - **Another vehicle's smart key is being operated close to your vehicle.**
- **The Smart Liftgate 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**

Fuel Filler Door

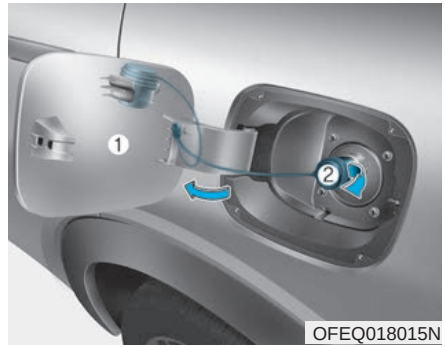
Opening the fuel filler door



1. Turn the vehicle off.
2. Push the fuel filler door opener button.

NOTICE

- **The fuel filler door does not open if the vehicle is not off.**
- **The fuel filler door may open after several seconds from turning off the vehicle. However, in cold weather, the fuel door may not open for about 45 seconds until the cluster message "Powering down..." disappears. This is for protecting the fuel cell system.**



3. Pull the fuel filler door (1) outward to access the fuel filler cap.
4. Pull the fuel filler cap (2).

Information

If the fuel filler 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. Do not pry on the door. If necessary, spray around the door with an approved de-icer fluid (do not use radiator anti-freeze) or move the vehicle to a warm place and allow the ice to melt.

Closing the fuel filler door

1. Cover the fuel filler with the cap.
2. Close the fuel filler door until it is latched securely.

WARNING

- **If the fuel filler cap requires replacement, you should use parts for replacement from an authorized Hyundai dealer. An incorrect fuel filler cap can result in a serious malfunction of the fuel system or emission control system. you should contact your HYUNDAI dealer for replacement.**
- **If the fuel filler door is not completely closed, the vehicle is not turned on. Close the fuel filler door and turn on the vehicle.**

⚠ WARNING

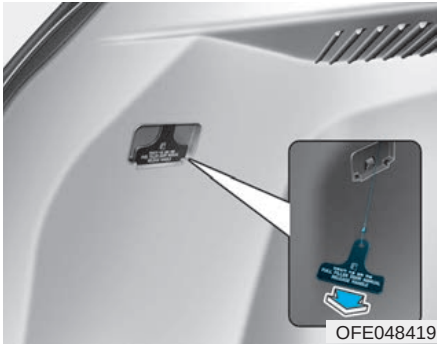
Refueling dangers

Automotive fuels are flammable materials. When refueling, please note the following guidelines carefully. Failure to follow these guidelines may result in severe personal injury, severe burns or death by fire or explosion.

- **Read and follow all warning posted at the gas station facility.**
- **Before touching the fuel nozzle, you should eliminate potentially dangerous static electricity discharge by touching another metal part of the vehicle, a safe distance away from the fuel filler neck, nozzle, or other gas source.**
- **Do not get back into a vehicle once you have begun refueling since you can generate static electricity by touching, rubbing or sliding against any item or fabric (polyester, satin, nylon, etc.) capable of producing static electricity. Static electricity discharge can ignite fuel vapors resulting in rapid burning. If you must reenter the vehicle, you should once again eliminate potentially dangerous static electricity discharge by touching a metal part of the vehicle, away from the fuel filler neck, nozzle or other gasoline source.**
- **Do not use cellular phones while refueling. Electric current and/or electronic interference from cellular phones can potentially ignite fuel vapors causing a fire.**
- **When refueling, always shut the power off. Once refueling is complete, check to make sure the filler cap and filler door are securely closed, before starting the vehicle.**
- **DO NOT use matches or a lighter and DO NOT SMOKE or leave a lit cigarette in your vehicle while at a gas station especially during refueling.**

  Automotive fuel is highly flammable and can, when ignited, result in fire.
- **If a fire breaks out during refueling, leave the vicinity of the vehicle, and immediately contact the manager of the gas station and then contact the local fire department. Follow any safety instructions they provide.**

Emergency Fuel Filler Door Release

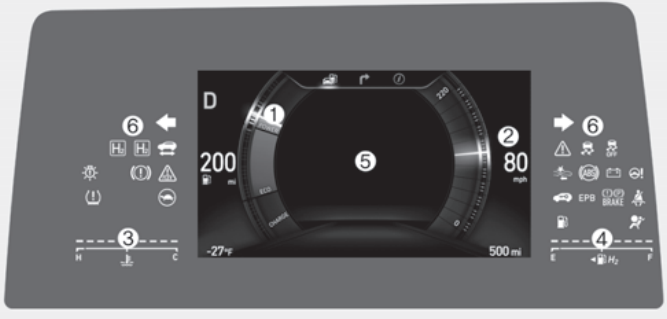

OFE048419

If the fuel filler door does not open due to the battery discharge and failure of the electrical wiring, open the liftgate and lightly pull the handle towards the arrow direction to pen the lid.

Information

Do not pull the handle excessively, otherwise the luggage area trim or release handle may be damaged.

INSTRUMENT CLUSTER



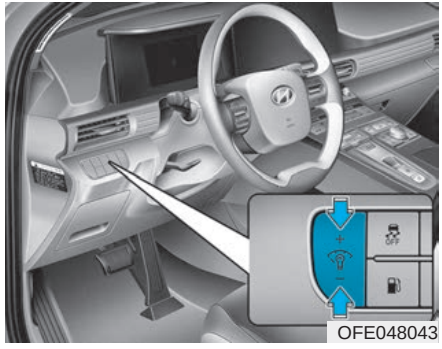
1. Power gauge
2. Speedometer
3. Fuel cell stack temperature gauge
4. Fuel gauge
5. Odometer/LCD display/Trip computer
6. Warning and indicator lights

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

OFE048100N

Instrument Cluster Control

Adjusting instrument cluster illumination



When the vehicle's position lights or headlights are on, press the illumination control button to adjust the brightness of the instrument panel illumination.

When pressing the illumination control button, the interior switch illumination intensity is also adjusted.

⚠ WARNING

Never adjust the instrument cluster while driving. Doing so could lead to driver distraction which may cause an accident and lead to vehicle damage, serious injury, or death.

- The brightness of the instrument panel illumination is displayed.
- If the brightness reaches the maximum or minimum level, a chime will sound.

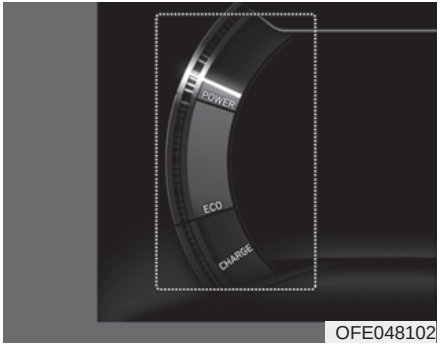
Gauges and Meters

Speedometer



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

Power gauge



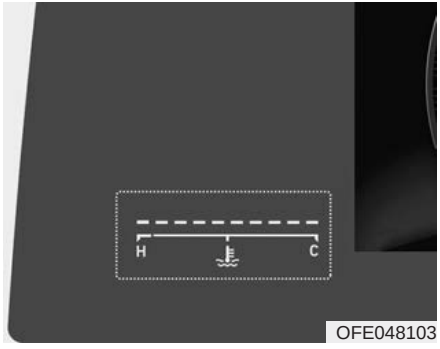
OFE048102

The power gauge shows the energy consumption rate of the traction motor.

- 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.
- ECO : It shows the energy consumption rate during normal driving condition.
- 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.

Fuel cell stack temperature gauge



OFE048103

This gauge shows the temperature of the fuel cell stack coolant when the POWER button is ON.

Do not continue driving with an overheated fuel cell stack. If your vehicle overheats, have the vehicle inspected by an authorized HYUNDAI dealer.

NOTICE - Fuel Cell Stack Overheats

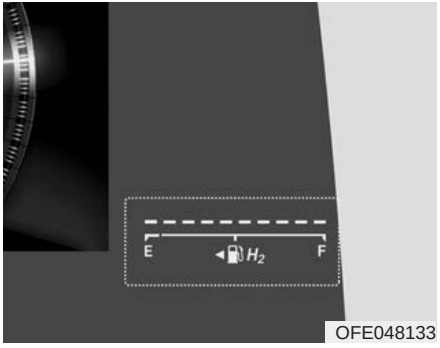
If the gauge pointer moves beyond the normal range area toward the "H" position, it indicates overheating that may damage the fuel cell stack.

⚠ WARNING

Radiator Cap

Never remove the radiator cap when the fuel cell power module is hot. Otherwise the fuel cell stack coolant may be under pressure and cause severe burns. Wait until the fuel cell power module is cool before adding coolant to the reservoir.

Hydrogen fuel gauge



This gauge indicates the approximate amount of fuel remaining in the fuel tank (The fuel tank capacity is given in chapter 8). The fuel gauge is supplemented by a low fuel warning light which will illuminate when the fuel tank is nearly empty.

⚠ WARNING

Running Out of Fuel

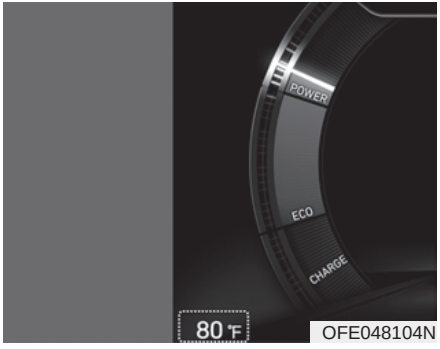
Running out of fuel can expose vehicle occupants to danger.

You must stop and obtain additional fuel as soon as possible after the warning light comes on or when the gauge indicator comes close to the "E" (Empty) level.

i Information - Hydrogen Fueling Station

According to the hydrogen fueling station condition, the hydrogen fuel may not filled fully.

Outside temperature gauge



OFE048104N

This gauge indicates the current outside air temperature by 1 degrees F (1 degrees C).

- Temperature range : -40°F ~ 140°F (-40°C ~ 60°C)

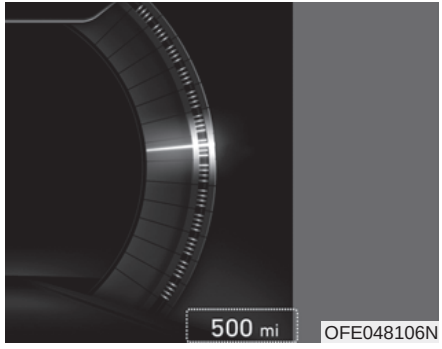
Note that the temperature indicated on the LCD display may not change as quickly as the outside temperature (there may be a slight delay before the temperature changes.)

The temperature unit (from °C to °F or from °F to °C) can be changed by:

- Press the AUTO button while pressing the OFF button on the climate control unit for 3 seconds
- Go to General settings mode → Unit → Temperature in the AVN display.

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

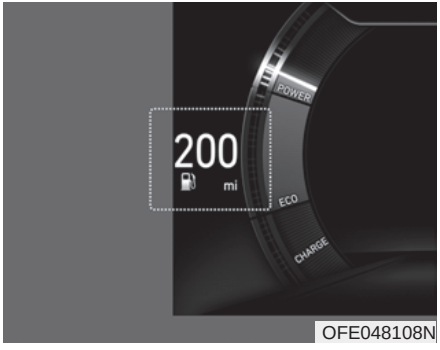
Odometer



OFE048106N

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

Range



OFE048108N

- The range is the estimated distance the vehicle can be driven with the remaining fuel.
- If the estimated distance is below 1 mi. (1 km), the trip computer will display "---" as range.
- If the hydrogen supply line is empty, the gauge may indicate that the hydrogen is not in the hydrogen tank.

Information

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

Gear shift indicator



OFE048105

This indicator displays which gear is selected.



OFE048107

Shift indicator pop-up (if equipped)

The pop-up displays the current gear position selected for 2 seconds (P/R/N/D).

The shift indicator pop-up function can be activated or deactivated from the Vehicle Settings mode in the AVN screen.

Regenerative braking rate indicator



OFE058136N

While using the regenerative brakes, you may select the regenerative braking rate from 0 to 3 by pulling the paddle shifter.

For more details, refer to "Regenerative Braking System" in chapter 5.

Icy road warning light (if equipped)



OFE048149L

This warning light is to warn the driver the road may be icy.

When the temperature on the outside temperature gauge is approximately below 40°F (4°C), the Icy Road Warning Light and Outside Temperature Gauge blinks, and then illuminates. Also, the warning chime is sound.

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.

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



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, have your vehicle inspected by an authorized HYUNDAI dealer.

Service Warning Light



This warning light illuminates :

- When the POWER 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 fuel cell electric vehicle control system, such as sensors, etc.

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

Power Down Warning Light



This warning light illuminates :

- When the vehicle power should be limited due to a malfunction with fuel cell stack.

  If the warning light continuously remains on when the vehicle is in "READY" state, or comes on during driving, this indicates that there may be a malfunction with the fuel cell stack. If this occurs, we recommend that you have the vehicle inspected by an authorized HYUNDAI dealer.

NOTICE

If the warning light turns on again when restarting the vehicle after parking your vehicle on an incline.

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 40°F (4°C), the Icy Road Warning Light and Outside Temperature Gauge blinks and then illuminates. Also, the warning chime sounds 1 time.

The Icy Road Warning function can be activated or deactivated from the Vehicle Settings mode in the AVN screen.

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.

Hydrogen Gas Leak Warning Light



This warning light illuminates:

- [Red] When the hydrogen leakage is detected in the vehicle.
- [Yellow] When there is a malfunction with the hydrogen leakage detection sensor.

If the warning light continuously remains on when the vehicle is in "READY" state, or comes on during driving, this indicates that there may be hydrogen leakage or a malfunction with the hydrogen leakage detection sensor. If this occurs, stop the vehicle and have the hydrogen system inspected by an authorized HYUNDAI dealer.

Low Fuel Level Warning Light



This warning light illuminates:

When the fuel tank is nearly empty.

If the fuel tank is nearly empty:

Add fuel as soon as possible.

Supplemental Restraint System Warning Light



This warning light illuminates:

- When the POWER button is in the ON position.
  - It illuminates for approximately 6 seconds and then goes off.
- When there is a malfunction with the SRS.

  In this case, have your vehicle inspected by an authorized HYUNDAI dealer.

Seat Belt Warning Light



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

For more details, refer to the "Seat Belts" in chapter 2.

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 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 the POWER button is 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 reservoir is low.

If the brake fluid level in the reservoir is low:

1. Drive carefully to the nearest safe location and stop your vehicle.
2. With the vehicle turned off, check the brake fluid level immediately and add fluid as required **(For more details, refer to "Brake Fluid" in chapter 7)**. 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. Have the vehicle inspected by an authorized HYUNDAI dealer.

Dual-diagonal braking system

Your vehicle is equipped with dual-diagonal braking systems. 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.

⚠ 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.

In this case, have your vehicle inspected by an authorized HYUNDAI dealer.

Anti-lock Brake System (ABS) Warning Light



This warning light illuminates:

- When the POWER button is in the ON position.
  - It illuminates for approximately 3 seconds and then goes off.
- When there is a malfunction with the ABS (The normal braking system will still be operational without the assistance of the anti-lock brake system).

  In this case, have your vehicle inspected by an authorized HYUNDAI dealer.

Electronic Brake Force Distribution (EBD) System Warning Light





These two warning lights illuminate at the same time while driving:

When the ABS and regular brake system may not work normally.

In this case, have your 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.

In this case, avoid high speed driving and abrupt braking.

In this case, have your vehicle inspected by an authorized HYUNDAI dealer.

Information - 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.

In this case, have your vehicle inspected by an authorized HYUNDAI dealer.

Electric Power Steering (EPS) Warning Light



This warning light illuminates:

- When the POWER button is in the ON position.
  - It illuminates for approximately 3 seconds and then goes off.
- When there is a malfunction with the EPS.

  In this case, have your vehicle inspected by an authorized HYUNDAI dealer.

Charging System Warning Light (for 12-volt battery)



This warning light illuminates:

- When the 12-volt battery level is low or a failure occurs on the charging system such as LDC.
- If the warning light turns on while driving, move the vehicle to a safe location, turn off and turn on the vehicle again, and check if the warning light turns off. If the warning light remains on, have the vehicle inspected by an authorized HYUNDAI dealer.
- Even if the warning light turns off, have the vehicle inspected by an authorized HYUNDAI dealer.

  If you drive the vehicle while the warning light is on, vehicle speed may be limited and the 12-volt battery may be discharged.

❈ LDC : Low voltage DC-DC Converter.

Low Tire Pressure Warning Light



This warning light illuminates:

- When the POWER button is in the ON position.
  - It illuminates for approximately 3 seconds and then goes off.
- When one or more of your tires are significantly underinflated (The location of each underinflated tire is displayed on the LCD display).

For more details, refer to "Tire Pressure Monitoring System (TPMS)" in chapter 6.

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.

In this case, have your vehicle inspected by an authorized HYUNDAI dealer.

For more details, refer to "Tire Pressure Monitoring System (TPMS)" in chapter 6.

⚠ 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.**

Electronic Parking Brake (EPB) Warning Light

EPB

This warning light illuminates:

- When the POWER button is in the ON position.
  - It illuminates for approximately 3 seconds and then goes off.
- When there is a malfunction with the EPB.

  In this case, have the vehicle inspected by an authorized HYUNDAI dealer.

Information

The Electronic Parking Brake (EPB) Warning Light may illuminate when the Electronic Stability control (ESC) Indicator Light comes on to indicate that the ESC is not working properly (This does not indicate malfunction of the EPB).

AUTO HOLD Indicator Light

AUTO HOLD

This indicator light illuminates:

- [White] When you activate the auto hold system by pressing the AUTO HOLD switch.
- [Green] When you stop the vehicle completely by depressing the brake pedal with the auto hold system activated.
- [Yellow] When there is a malfunction with the auto hold system.

  In this case, have the vehicle inspected by an authorized HYUNDAI dealer.

For more details, refer to "Auto Hold" in chapter 5.

Forward Collision Avoidance Assist (FCA) system warning light (if equipped)



This warning light illuminates :

- When the POWER button is in the ON position.
  - It illuminates for approximately 3 seconds and then goes off.
- When the FCA system is turned off.
- When the radar sensor or cover is blocked with dirt or snow. Check the sensor and cover and clean them by using a soft cloth.
- When there is a malfunction with FCA. In this case, have your vehicle inspected by an authorized HYUNDAI dealer.

Lane Keeping Assist (LKA) system indicator light (if equipped)



This indicator light illuminates:

- [Green] When the system operating conditions are satisfied for LKA.
- [White] When system operating conditions are not satisfied or when the sensor does not detect the lane line.
- [Yellow] When there is a malfunction with the Lane Keeping Assist (LKA) system.

In this case, have your vehicle inspected by an authorized HYUNDAI dealer.

For more details, refer to "Lane Keeping Assist (LKA) system" in chapter 5.

LED Headlamp Warning Light (if equipped)



This warning light illuminates:

- When the POWER button is in the ON position.
  - It illuminates for approximately 3 seconds and then goes off.
- When there is a malfunction with the LED headlamp.

In this case, have the vehicle inspected by an an authorized HYUNDAI dealer.

This warning light blinks:

When there is a malfunction with a LED headlamp related part.

In this case, have the vehicle inspected by an an authorized HYUNDAI dealer.

NOTICE

Continuous driving with the LED Headlamp Warning Light on or blinking can reduce LED headlamp life.

Master Warning Light



This indicator light illuminates:

When there is a malfunction in operation in any of the following systems:

- LED headlamp malfunction (if equipped)
- Forward Collision-Avoidance Assist system malfunction (if equipped)
- Forward Collision-Avoidance Assist radar blocked (if equipped)
- Blind-Spot Collision Warning system malfunction (if equipped)
- Blind-Spot Collision Warning radar blocked (if equipped)
- Smart Cruise Control with Stop & Go malfunction (if equipped)
- Smart Cruise Control with Stop & Go radar blocked (if equipped)
- Lamp malfunction
- High Beam Assist malfunction (if equipped)
- Tire Pressure Monitoring System (TPMS) malfunction

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

Electronic Stability Control (ESC) Indicator Light



This indicator light illuminates:

- When the POWER button is in the ON position.
  - It illuminates for approximately 3 seconds and then goes off.
- When there is a malfunction with the ESC system.

  In this case, have your vehicle inspected by an authorized HYUNDAI dealer.

This indicator light blinks:

While the ESC is operating.

For more details, refer to "Electronic Stability Control (ESC)" in chapter 5.

Electronic Stability Control (ESC) OFF Indicator Light



This indicator light illuminates:

- When the POWER button is in the ON position.
  - It illuminates for approximately 3 seconds and then goes off.
- When you deactivate the ESC system by pressing the ESC OFF button.

For more details, refer to "Electronic Stability Control (ESC)" in chapter 5.

Immobilizer Indicator Light



This indicator light illuminates for up to 30 seconds:

When the vehicle detects the smart key in the vehicle with the POWER button in the ACC or ON position.

- At this time, you can start the vehicle.
- The indicator light goes off after starting the vehicle.

This indicator light blinks for a few seconds:

When the smart key is not in the vehicle.

- At this time, 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 POWER button is ON, but the vehicle cannot detect the smart key.

In this case, have your vehicle inspected by an authorized HYUNDAI dealer.

This indicator light blinks:

- When the battery voltage of the smart key is low.
  - At this time, you can not start the vehicle. However, you can start the if you press the POWER button with the smart key. **(For more details, refer to "Starting the vehicle" in chapter 5)**.
- When there is a malfunction with the immobilizer system.

  In this case, have your vehicle inspected by an authorized HYUNDAI dealer.

Turn Signal Indicator Light



This indicator light blinks:

When you operate the turn signal indicator.

If any of the following occurs, 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 either of these conditions occur, have your vehicle inspected by an authorized HYUNDAI dealer.

High Beam Indicator Light



This indicator light illuminates:

- When the headlights are on and in the high beam position.
- When the turn signal lever is pulled into the Flash-to-Pass position.

Light ON Indicator Light



This indicator light illuminates:

When the tail lights or headlights are on.

ECO Mode Indicator Light



This indicator light illuminates :

When you select "ECO" mode as drive mode.

For more details, refer to "Drive Mode Integrated Control System" in this chapter.

LCD Display Messages

Shift to P

This warning message is displayed if you try to turn off the vehicle with the gear in the N (Neutral) position.

At this time, the POWER button changes to the ACC position (If you press the POWER button once more, it will turn to the ON position).

Low Key Battery

This warning message is displayed if the battery of the smart key is discharged while changing the POWER button to the OFF position.

Press POWER button while turning wheel

This warning message is displayed if the steering wheel does not unlock normally when the POWER button is pressed.

You should press the POWER button while turning the steering wheel right and left.

Check Steering Wheel Lock System

This warning message is displayed if the steering wheel does not lock normally while the POWER button changes to the OFF position.

Press brake pedal to start vehicle

This warning message is displayed if the POWER 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.

Key not in vehicle

This warning message is displayed if the smart key is not in the vehicle when you press the POWER button.

When attempting to start the vehicle, always have the smart key with you.

Key not detected

This warning message is displayed if the smart key is not detected when you press the POWER button.

Press POWER button again

This message is displayed if you were unable to start the vehicle when the POWER button was pressed.

If this occurs, attempt to start the vehicle by pressing the POWER button again.

If the warning message appears each time you press the POWER button, have your vehicle inspected by an authorized HYUNDAI dealer.

Press POWER button with key

This warning message is displayed if you press the POWER button while the warning message "Key not detected" is displayed.

At this time, the immobilizer indicator light blinks.

Check BRAKE SWITCH fuse

This warning 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 POWER button for 10 seconds in the ACC position.

Shift to P to start vehicle

This warning message is displayed if you try to start the vehicle without shifting to the P (Park) position.

Door / Hood / Liftgate open



OFE048110

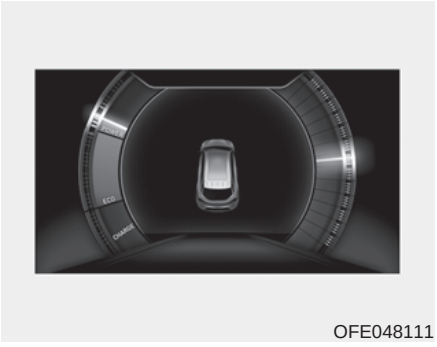
This warning is displayed indicating which door, or the hood, or the liftgate is open.

⚠ CAUTION

Before driving the vehicle, you should confirm that the door/hood/liftgate is fully closed.

Also, check there is no door/hood/liftgate open warning light or message displayed on the instrument cluster.

Sunroof open



OFE048111

This warning is displayed if you turn off the vehicle when the sunroof is open.

Low Pressure



OFE048150L

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)" in chapter 6.

Check headlight (if equipped)

This warning message is displayed if the headlamps are not operating properly. The headlamp bulb may need to be replaced.

Information

Make sure to replace the burned out bulb with a new one of the same wattage rating.

For more details, refer to "Bulb Wattage" in chapter 8.

Check headlamp LED (if equipped)

This warning message is displayed if there is a problem with the LED headlamp. Have the vehicle inspected by an authorized HYUNDAI dealer.

Check headlamp FAN (if equipped)

This warning message is displayed if there is a problem with headlamp fan. Have the vehicle inspected by an authorized HYUNDAI dealer.

Lights Mode

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

Wiper

This indicator displays which wiper speed is selected using the wiper control.

Check Virtual Engine Sound System



OFE048153L

This message is displayed when there is a problem with the Virtual Engine Sound System (VESS).

In this case, have your vehicle inspected by an authorized HYUNDAI dealer.

Check High Beam Assist (HBA) system (if equipped)

This warning message is displayed if there is a problem with the High Beam Assist (HBA) system. Have the vehicle inspected by an authorized HYUNDAI dealer.

For more details, refer to "High Beam Assist (HBA) system" in chapter 3.

Check Forward Collision Avoidance Assist system (if equipped)

This warning message is displayed if there is a problem with the Forward Collision-Avoidance Assist (FCA) system. Have the vehicle inspected by an authorized HYUNDAI dealer.

For more details, refer to "Forward Collision-Avoidance Assist (FCA) system" in chapter 5.

Check Blind-Spot Collision Warning (BCW) system (if equipped)

This warning message is displayed if there is a problem with the Blind-Spot Collision Warning system. Have the vehicle inspected by an authorized HYUNDAI dealer.

For more details, refer to "Blind-Spot Collision Warning/Blind-Spot Collision-Avoidance Assist (BCA) or Rear Cross-Traffic Collision Warning (RCCW)/Rear Cross-Traffic Collision-Avoidance Assist (RCCA)" (BCW) System in chapter 5.

Check Smart Cruise Control System (if equipped)

This warning message is displayed if there is a problem with the Smart Cruise Control system. Have the vehicle inspected by an authorized HYUNDAI dealer.

For more details, refer to "Smart Cruise Control with Stop & Go" in chapter 5.

Check Driver Attention Warning (DAW) system (if equipped)

This warning message is displayed if there is a problem with the Driver Attention Warning (DAW). Have the vehicle inspected by an authorized HYUNDAI dealer.

For more details, refer to "Driver Attention Warning (DAW)" in chapter 5.

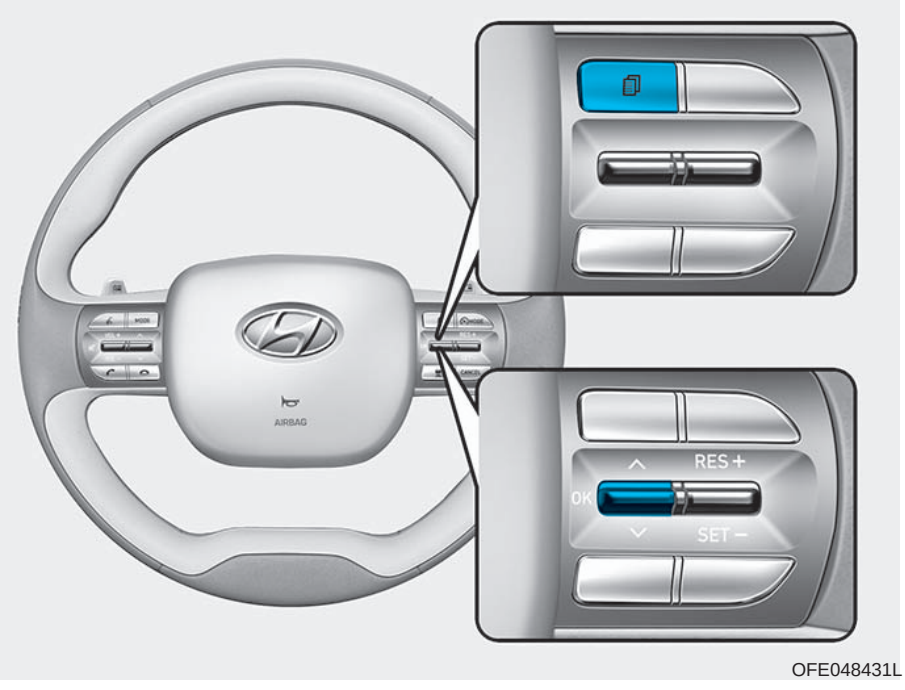
Check Lane Keeping Assist (LKA) system (if equipped)

This warning message is displayed if there is a problem with the Check Lane Keeping Assist (LKA) system. Have the vehicle inspected by an authorized HYUNDAI dealer.

For more details, refer to "Check Lane Keeping Assist (LKA) system" in chapter 5.

LCD DISPLAY

LCD Display Control



OFE048431L

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

(1) : MODE button for changing modes

(2) ∧ , ∨ : MOVE switch for changing items

(3) OK : SELECT/RESET button for setting or resetting the selected item

LCD Display Modes

	Menu			
	Trip Computer	TBT	Assist	Master warning
Up/Down	Consumption Info	Route Guidance	Driver Attention Warning	The Master Warning mode displays warning messages related to the vehicle when one or more systems is not operating normally.
	Accumulated Info	Destination Info	Tire Pressure	
	Drive Info			
	Digital Speedometer			

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

Trip computer mode



OFE048154N

The trip computer mode displays information related to vehicle driving parameters including fuel economy, tripmeter information and vehicle speed.

For more details, refer to "Trip Computer" in this chapter.

Turn By Turn (TBT) mode



OFE048119N

This mode displays the state of the navigation.

Information mode

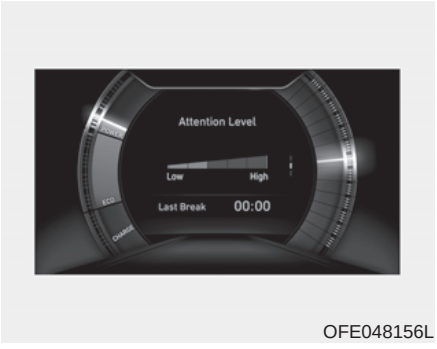


OFE048155L

Tire Pressure

This mode displays information related to Tire Pressure.

For more details, refer to "Tire Pressure Monitoring System (TPMS)" in chapter 6.



OFE048156L

Driver Attention Warning

This mode displays information related to Driver Attention Warning (DAW).

For more details, refer to "Driver Attention Warning (DAW)" in chapter 5.

Warning mode

If one of followings occurs, warning messages will be displayed on the LCD display for several seconds.

- Exterior lamp malfunction (if equipped)
- Blind-Spot Collision Warning (BCW) system malfunction (if equipped)
- Tire Pressure Monitoring System (TPMS)
- High Beam Assist (HBA) malfunction (if equipped)
- Forward Collision-Avoidance Assist (FCA) malfunction (if equipped)

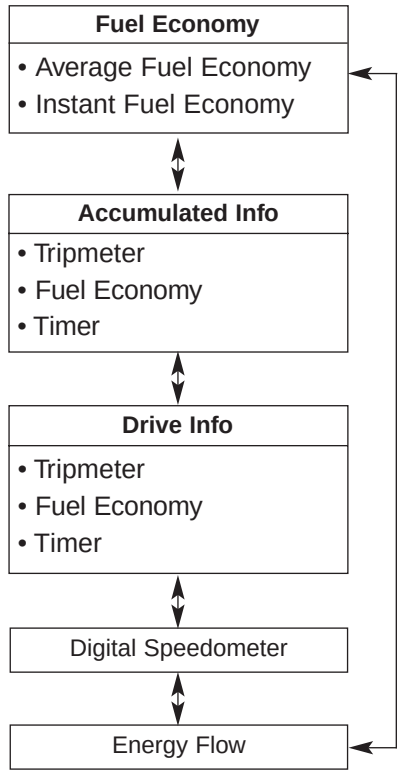
TRIP COMPUTER

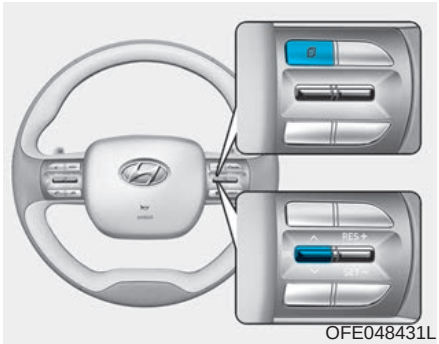
The trip computer is a microcomputer-controlled driver information system that displays information related to driving.

Information

Some driving information stored in the trip computer (for example Average Vehicle Speed) resets if the battery is disconnected.

Trip modes





To change the trip mode, toggle the "∧, ∨" switch on the steering wheel.

Average fuel economy/ Instant fuel economy



OFE048154N

Average Fuel Economy (1)

- The average fuel economy is calculated by the total driving distance and fuel consumption since the last average fuel economy reset.
- The average fuel economy can be reset both manually and automatically.

Manual reset

To clear the average fuel economy manually, press the OK button on the steering wheel for more than 1 second when the average fuel economy is displayed.

Automatic reset

To automatically reset the average fuel economy, select between "After Ignition" or "After Refueling" in the Vehicle Settings mode in the AVN screen.

- After ignition: When the vehicle has been OFF for 4 hours or longer the average fuel economy will reset automatically.
- After refueling: The average fuel economy will reset automatically after refueling.

i Information

The vehicle must be driven for a minimum of 0.19 miles (300 meters) since the last ignition key cycle before the average fuel economy will be recalculated.

Instant Fuel Economy (2)

- The instantaneous fuel economy is displayed according to the bar graph in the LCD display while driving.

Accumulated Info display



OFE048472N

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

The information is accumulated starting from the last reset.

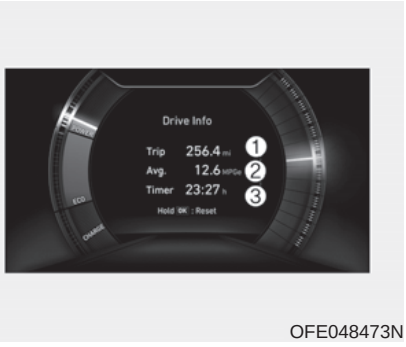
To reset the details, press and hold the OK button when viewing the Accumulated driving info. The trip distance, the average fuel economy, and total driving time will reset simultaneously.

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

Information

The vehicle must be driven for a minimum of 0.19 miles (300 meters) since the last ignition key cycle before the average fuel economy will be recalculated.

Drive Info display



OFE048473N

This display shows the trip distance (1), the average fuel economy (2), and the total driving time (3).

The information is combined for each ignition cycle. However, when the vehicle has been OFF for 4 hours or longer the Drive Info screen will reset.

To reset the details, press and hold the OK button when viewing the Drive Info. The trip distance, the average fuel economy, and total driving time will reset simultaneously.

The driving information will continue to be counted while the vehicle is in the 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 0.19 miles (300 meters) since the last ignition key cycle before the average fuel economy will be recalculated.

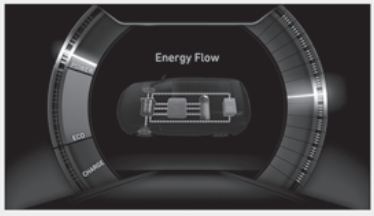
Digital speedometer



OFE048128N

This digital speedometer display shows the speed of the vehicle.

Energy Flow



OFE048163L

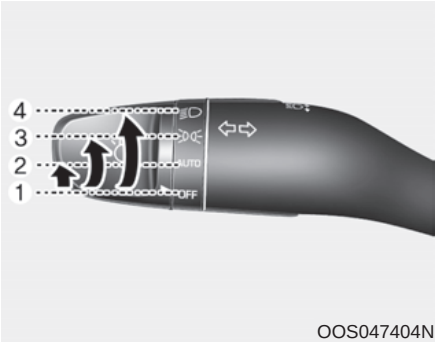
The fuel cell vehicle system informs the drivers its energy flow in various operating modes. While driving, the current energy flow is specified in 3 modes.

For more details, refer to "Energy Flow" in the fuel cell Vehicle Guide provided in front of the owner's manual.

Exterior Lights

Lighting control

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



OOS047404N

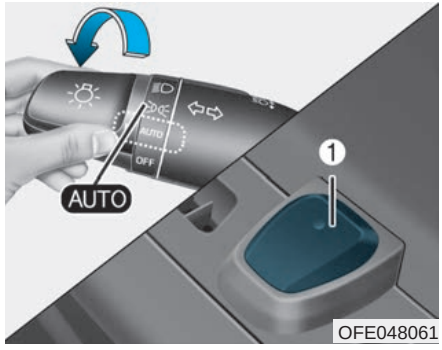
1. OFF position
2. AUTO headlamp position
3. Parking lamp position
4. Headlamp position

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 lamps are ON.
- The vehicle is turned off.
- The parking brake is engaged.



OFE048061

AUTO headlamp position (if equipped)

The parking lamp and headlamp will be turned ON or OFF automatically depending on the amount of daylight as measured by the ambient light sensor (1) on the crash pad.

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 in front of the instrument panel.**
- **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.**



OOS047405N

Parking lamp position (≡D≡)

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



OOS047406N

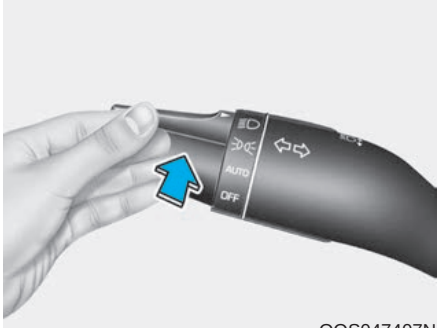
Headlamp position (≡D)

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

i Information

The POWER button must be in the ON position to turn on the headlamp.

High beam operation



OOS047407N

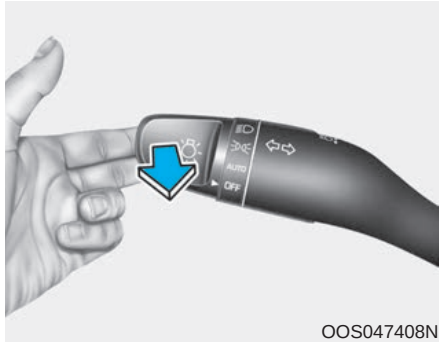
To turn on the high beam headlamp, push the lever away from you. The lever will return to its original position.

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.

⚠ WARNING

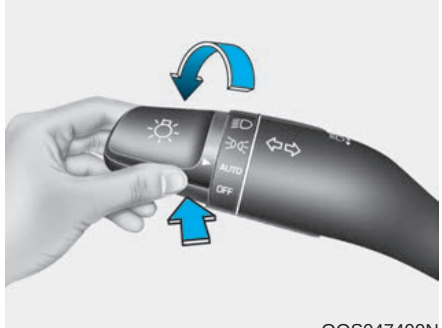
Do not use high beam when there are other vehicles approaching you. Using high beam could obstruct the other driver's vision.



OOS047408N

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.

High Beam Assist (HBA)



OOS047409N

The High Beam Assist (HBA) is a system that automatically adjusts the headlamp range (switches between high beam and low beam) according to the brightness of other vehicles and road conditions.

Operating condition

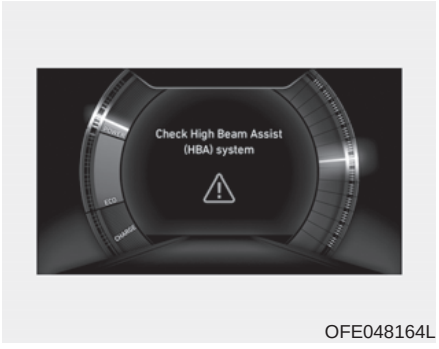
1. Place the headlamp switch in the AUTO position.
2. Turn on the high beam by pushing the lever away from you.

   The High Beam Assist (HBA) (AUTO) indicator will illuminate.

3. The High Beam Assist (HBA) will turn on when vehicle speed is above 25 mph (40 km/h).
   - If the headlamp switch is pushed away when the High Beam Assist (HBA) is operating, the High Beam Assist (HBA) will turn off and the high beam will be on continuously.
   - If the headlamp switch is pulled towards you when the high beam is off, the high beam will turn on without the High Beam Assist (HBA) canceled. When you let go of the light switch, the lever will move to the middle and the high beam will turn off.
   - If the headlamp switch is pulled towards you when the high beam is on by the High Beam Assist (HBA), the low beam will be on and the High Beam Assist (HBA) will turn off.
   - If the headlamp switch is placed to the headlamp ON position, the High Beam Assist (HBA) will turn off and the low beam will be on continuously.

When the High Beam Assist (HBA) is operating, the high beam switches to low beam if any of the following conditions occur :

- When the headlamp of an on-coming 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.
- When the headlamp switch is not in the AUTO position.
- When the High Beam Assist (HBA) is off.
- When vehicle speed is below 22 mph (35 km/h).



OFE048164L

Warning light and message

When the High Beam Assist (HBA) is not working properly, the Check High Beam Assist warning message will come on for a few second. After the message disappears, the master warning light (⚠) will illuminate. Take your vehicle to an authorized HYUNDAI dealer and have the system checked.

⚠ WARNING

The system may not operate normally if any of the following conditions should occur:

1) When the illumination from an on-coming vehicle or a vehicle in front is dim. Such examples may include:

- When the headlamps of an on-coming vehicle or the tail lamps of a vehicle in front is covered with dust, snow, or water.
- When the headlamps on an on-coming vehicle are OFF, but the fog lamps are ON.

2) When the High Beam Assist camera is adversely affected by an external condition. Such examples may include:

- When the vehicle's headlamps have been damaged or not repaired properly.
- When the vehicle headlamps are not aimed properly.
- When the vehicle is driven on a narrow curved road or rough road.
- When the vehicle is driven on an uphill road or downhill road.
- When only part of the vehicle in front is visible on a crossroad or curved road.
- When there is a traffic light, reflecting sign, flashing sign or mirror.
- When the road conditions are bad such as being wet or covered with snow.
- When a vehicle suddenly appears from a curve.
- When the vehicle is tilted from a flat tire or being towed.
- When the Lane Keeping Assist (LKA) system warning light illuminates.
- When the light from the on-coming or front vehicle is not detected because of exhaust fume, smoke, fog, snow, etc.
- When the front window is covered with foreign matters such as ice, dust, fog, or is damaged.

3) When the forward visibility is poor. Such examples may include:

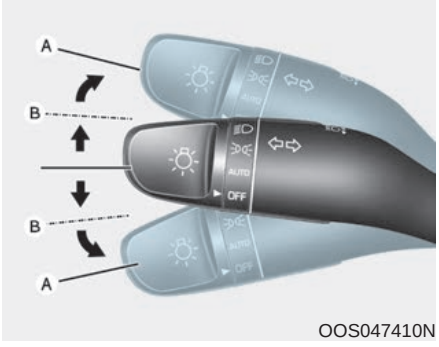
- When the headlamps of an on-coming vehicle or a vehicle in front is not detected due to poor outside visibility (smog, smoke, dust, fog, heavy rain, snow, etc.).
- When the windshield visibility is poor.

⚠ WARNING

- **Do not attempt to disassemble the front view camera without the assistance of an authorized HYUNDAI dealer technician. If camera is removed for any reason, the system may need to be re-calibrated. Have the system inspected by an authorized HYUNDAI dealer.**
- **If the windshield of your vehicle is replaced, most likely the front view camera will need to be re-calibrated. If this occurs, have your vehicle inspected and have the system re-calibrated by an authorized HYUNDAI dealer.**
- **Be careful that water doesn't get into the High Beam Assist (HBA) unit and do not remove or damage related parts of the High Beam Assist (HBA) system.**

- **Do not place objects on the crash pad that reflect light such as mirrors, white paper, etc. The system may malfunction if sunlight is reflected.**
- **At times, the High Beam Assist (HBA) may not work properly. The system 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 the system does not operate normally, change the headlamp position manually between the high beam and low beam.**

Turn signals and lane change signals



OOS047410N

To signal a turn, push down on the lever for a left turn or up for a right turn in position (A).

If the direction change is completed, the operation is automatically canceled. However, if the operation is not canceled automatically, set the lever to the center.

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 function

To activate the One Touch Turn Signal function, 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 activate or deactivate the One Touch Turn Signal function or choose the number of blinks (3, 5, or 7) from the Vehicle Settings mode in the AVN screen.

For more details, refer to the separately supplied Navigation manual.

Battery saver function

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

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

If necessary, to keep the lamps on when the vehicle is turned off, perform the following:

1) Open the driver-side door.
2) Turn the parking lamps OFF and ON again using the headlamp switch on the steering column.

Headlight time-out function (if equipped)

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

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

You can activate or deactivate the Headlamp Delay function from the Vehicle Settings mode (Light) on the AVN screen.

For more details, refer to the separately supplied Navigation manual.

NOTICE

If the driver gets out of the vehicle through other doors (except driver's door), the battery saver function does not operate and the headlamp delay function does not turn off automatically. Therefore, It causes the battery to be discharged. In this case, make sure to turn off the lamp before getting out of the vehicle.

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.

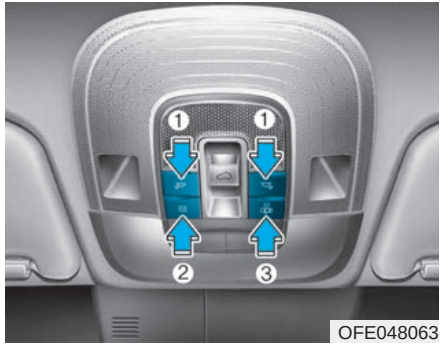
NOTICE

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 40 minutes after the vehicle is turned off. If the doors are locked by the remote key or smart key and the vehicle enters the armed stage of the theft alarm system, the lamps will go off five seconds later.

Front lamps



OFE048063

Front Map Lamp (1) :

Press either lenses (Type A) or switches (, Type B) 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.

Front Room Lamp (2) ( ) :

Press the button to turn the front and rear room lamps on or off.

Front Door Lamp (3) ( ) :

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 if the door is closed. However, if the POWER 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 POWER button in the ACC position or the OFF position, the front and rear lamps stay on for about 20 minutes.

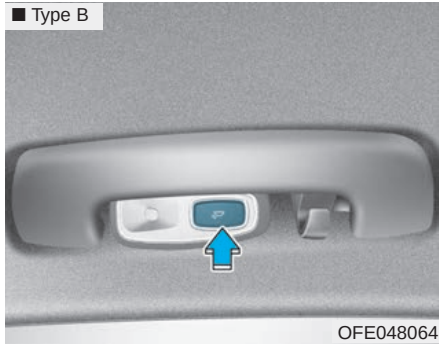
Rear lamp

■ Type A



OAEE046421

■ Type B

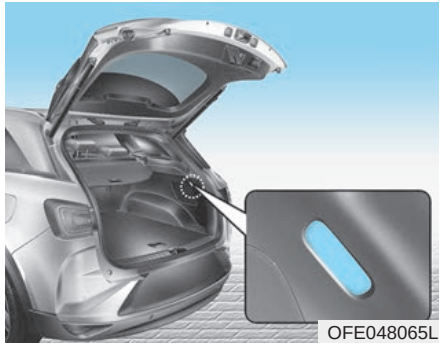


OFE048064

Rear Room Lamp ( ):

Press this switch to turn the rear room lamp on and off.

Luggage compartment lamp



OFE048065L

The luggage compartment lamp comes on when the liftgate is opened. If the liftgate is continuously opened, the luggage compartment lamp will turn off after 20 minutes.

Vanity mirror lamp


OOS047055

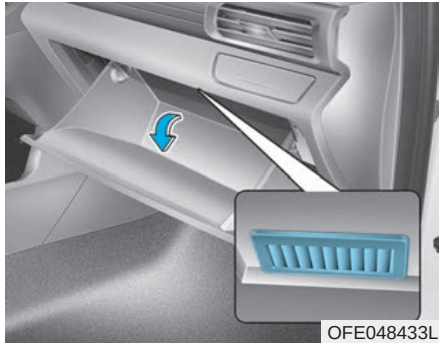
Push the switch to turn the light on or off.

- : 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


OFE048433L

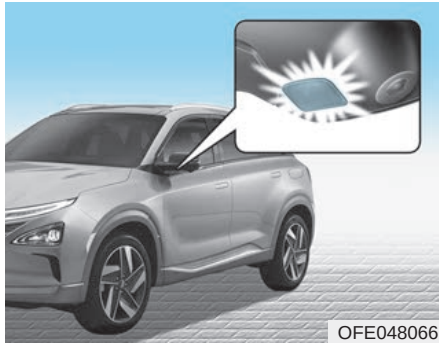
The glove box lamp comes on when the glove box is opened.

If the glove box is not closed, the lamp will turn off after 20 minutes.

NOTICE

To prevent unnecessary charging system drain, close the glove box securely after using the glove box.

Puddle lamp (if equipped)


OFE048066

Welcome light

When all doors (and liftgate) are closed and locked, the puddle lamp will come on for 15 seconds if the door is unlocked by the remote key or smart key or outside door handle button.

For more details, refer to "Welcome System" in this chapter.

Escort light

When the vehicle is turned OFF and the driver's door is opened, the puddle lamp will come on for 30 seconds. If the driver's door is closed within the 30 seconds, the puddle lamp will turn off after 15 seconds. If the driver's door is closed and locked, the puddle lamp will turn off immediately.

The Puddle Lamp Escort Light will turn on only the first time the driver's door is opened after the vehicle is turned off.

Welcome System (if equipped)

Welcome light



OFE048062N

Puddle lamp

With all the doors (and liftgate) closed and locked, the puddle lamp will come on for about 15 seconds if any of the below is performed.

1. If 'Convenience → Welcome mirror/light → On door unlock' is selected in the vehicle Settings mode on the AVN screen,
   - the lamps will turn on when the door lock button is pressed on the smart key.
   - the lamp will turn on when the button of the outside door handle is pressed with the smart key in possession.
2. If both 'Convenience → Welcome mirror/light → On door unlock' and 'Convenience → Welcome mirror/light → On driver approach' is selected in the vehicle Settings mode on the AVN screen, the lamp will turn on when the vehicle is approached with the smart key in possession.

You can activate or deactivate Welcome Light function from the vehicle Settings mode on the AVN screen.

For more details, refer to the separately supplied "Navigation manual".

Headlamp and parking lamp

When the headlamp (lamp switch in the headlamp or AUTO position) is on and all doors (and liftgate) are locked and closed, the parking lamp and headlamp will come on for 15 seconds when the door unlock button is pressed on the remote key or smart key.

At this time, if you press the door lock or unlock button, the parking lamp and headlamp will turn off immediately.

Interior lamp

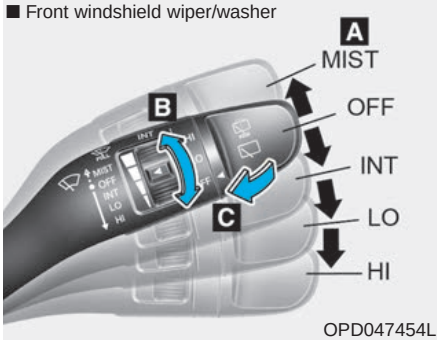
When the interior lamp switch is in the DOOR position and all doors (and liftgate) are closed and locked, the room lamp will come on for 30 seconds if any of the below is performed.

- When the door unlock button is pressed on the remote key or smart key.
- When the button of the outside door handle is pressed with the smart key in possession.

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

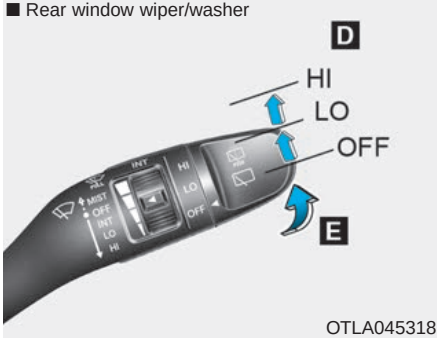
WIPERS AND WASHERS

■ Front windshield wiper/washer



OPD047454L

■ Rear window wiper/washer



OTLA045318

A : Wiper speed control

- MIST – Single wipe
- OFF – Off
- INT – Intermittent wipe
- LO – Low wiper speed
- HI – High wiper speed

B : Intermittent control wipe time adjustment

C : Wash with brief wipes (pull lever towards you)

D : Rear wiper/washer control

- HI – High wiper speed
- LO – Low wiper speed
- OFF – Off

E : Wash with brief wipes (rear) (push lever away from you)

Front Windshield Wipers

Operates as follows when the POWER button is in the ON position.

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

OFF : Wiper is not in operation.

INT : Wiper operates intermittently at the same wiping intervals. To vary the speed setting, move the speed control lever. The top most setting will run the wipers most frequently (for more rain). The bottom setting will run the wipers the least frequently (for less rain).

LO : The wiper runs at a lower speed.

HI : The wiper runs at a higher speed.

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 Wiper Control (if equipped)

A rain sensor located near the windshield detects moisture accumulation and controls the wiping cycle automatically. This mode is designed to operate the wiper at an appropriate speed depending on the amount of rainfall. The sensitivity can be varied by turning the adjustment control (B) located on the wiper stalk. If the wiper switch is set in AUTO mode when the ignition switch is in the ON position, the wiper will operate once to perform a self-check of the system. Set the wiper control to the OFF position when the windshield wipers are not required.

⚠ WARNING

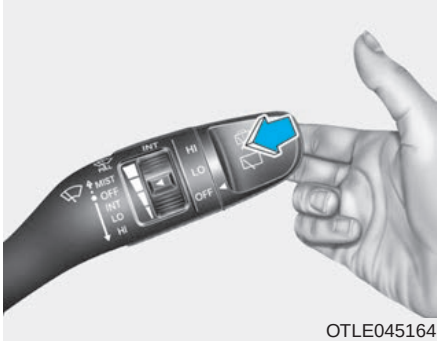
To avoid personal injury from the windshield wipers, when the engine is running and the windshield wiper switch is placed in the AUTO mode:

- **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 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. Damage to system parts 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 while driving.**

Front Windshield Washers



OTLE045164

In the OFF 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.

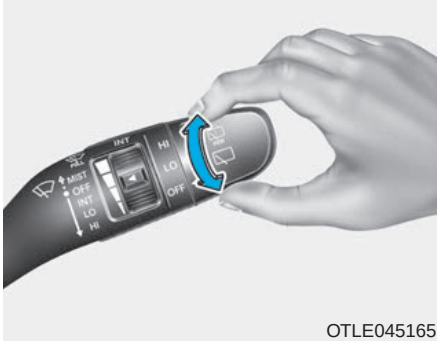
⚠ WARNING

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.**

Rear Window Wiper and Washer



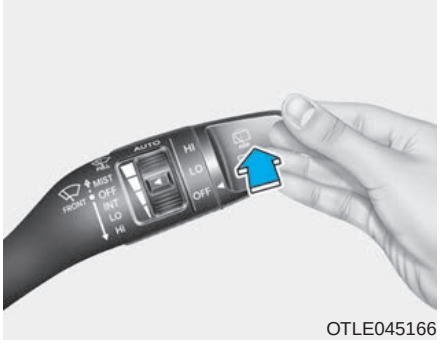
OTLE045165

The rear window wiper and washer switch is located at the end of the wiper and washer switch lever. Turn the switch to the desired position to operate the rear wiper and washer.

HI – High wiper speed

LO – Low wiper speed

OFF – Off



OTLE045166

Push the lever away from you to spray rear washer fluid and to run the rear wipers 1~3 cycles. The spray and wiper operation will continue until you release the lever.

Auto rear wiper

The rear wiper will operate while the vehicle is in reverse with the front wiper ON by selecting the function on the AVN screen.

Go to 'Vehicle Settings → Convenience → Auto Rear Wiper (in R)'.

Parking Distance Warning (Reverse/Forward) System (if equipped)



OFE048046N



OFE048047N

[A] : Front Sensor, [B] : Rear Sensor

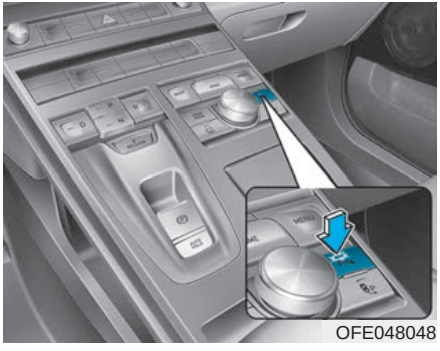
The Parking Distance Warning (Reverse/Forward) system assists the driver during movement of the vehicle by chiming if any object is sensed within the distance of 39 inches (100 cm) in front and 47 inches (120 cm) behind the vehicle.

This system is a supplemental system that senses objects within the range and location of the sensors, it cannot detect objects in other areas where sensors are not installed.

⚠ WARNING

- **ALWAYS look around your vehicle to make sure there are no objects or obstacles before moving the vehicle in any direction to prevent a collision.**
- **Always pay close attention when the vehicle is driven close to objects, particularly pedestrians, and especially children.**
- **Be aware that some objects may not be visible on the screen or be detected by the sensors, due to the objects distance, size or material, all of which can limit the effectiveness of the sensor.**

Operation of the Parking Distance Warning (Reverse/Forward) System



OFE048048

Operating condition

- This system will activate when the Parking Distance Warning (Reverse/Forward) system button is pressed with the POWER button in the ON position.
- Sensing distance when backing up is approximately 47 in (120 cm) when you are driving less than 6 mph (10 km/h).
- Sensing distance when moving forward is approximately 39 in (100 cm) when you are driving less than 6 mph (10 km/h).
- The Parking Distance Warning (Reverse/Forward) system button turns on automatically and activates the Parking Distance Warning (Reverse/Forward) system when the gear is in the R (Reverse) position.
- However, if vehicle speed exceeds 6 mph (10 km/h), the system will not warn you even though objects are detected.

  And if vehicle speed exceeds 12 mph (20 km/h, without RSPA) or 18 mph (30 km/h, with RSPA), the system will turn off automatically.

* RSPA : Remote Smart Parking Assist

- To turn on the system, press the Parking Distance Warning (Reverse/Forward) system button.
- When more than two objects are sensed at the same time, the closest one will be recognized first.

Types of warning sound and indicator

inches (cm)

Distance from object		Warning indicator		Warning sound
		When driving forward	When driving rearward	
24 ~ 39 (61 ~ 100)	Front		-	Buzzer beeps intermittently
24 ~ 47 (61 ~ 120)	Rear	-		Buzzer beeps intermittently
12 ~ 24 (31 ~ 60)	Front			Buzzer beeps frequently
	Rear	-		Buzzer beeps frequently
12 (30)	Front			Buzzer sounds continuously
	Rear	-		Buzzer sounds continuously

Information

- **The indicator may differ from the illustration depending on objects or sensors status. If the indicator blinks, have your vehicle checked by an authorized HYUNDAI dealer.**
- **If the audible warning does not sound or if the buzzer sounds intermittently when shifting into R (Reverse) position, this may indicate a malfunction with the Parking Distance Warning (Reverse/Forward) system. If this occurs, have your vehicle checked by an authorized HYUNDAI dealer.**

Non-operational conditions of Parking Distance Warning (Reverse/Forward) system

The Parking Distance Warning (Reverse/Forward) system may not operate normally when any of the following occur:

- Moisture is frozen to the sensor.
- Sensor is covered with foreign matter, such as snow or water, or the sensor cover is blocked.

The Parking Distance Warning (Reverse/Forward) system may experience a malfunction when the following occurs:

- Driving on uneven road surfaces such as unpaved roads, gravel, bumps, or gradient.
- Objects generating excessive noise such as vehicle horns, loud motorcycle engines, or truck air brakes can interfere with the sensor.
- Heavy rain or water spray is present.
- Wireless transmitters or mobile phones are present near the sensor.
- The sensor is covered with snow.

- Any non-factory equipment or accessories have been installed, or if the vehicle bumper height or sensor installation has been modified.

Detecting range may decrease when:

- Outside air temperature is extremely hot or cold.
- Undetectable objects smaller than 40 inches (1 m) and narrower than 6 inches (14 cm) in diameter.

The following objects may not be recognized by the sensor:

- 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.

Parking Distance Warning (Reverse/Forward) system precautions

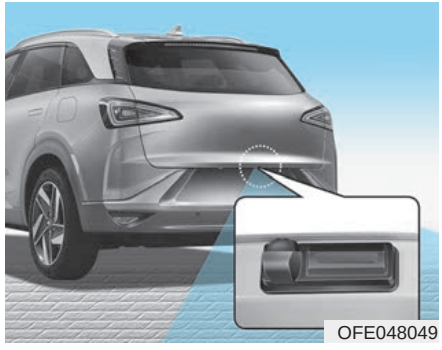
- The Parking Distance Warning (Reverse/Forward) system may not operate consistently in some circumstances depending on the speed of the vehicle and the shapes of the objects detected.
- The Parking Distance Warning (Reverse/Forward) system may malfunction if the vehicle bumper height or sensor installation has been modified or damaged. Any non-factory installed equipment or accessories may also interfere with the sensor performance.
- The sensor may not recognize objects less than 15 in. (40 cm) from the sensor, or it may sense an incorrect distance. Use caution.
- When the sensor is blocked with snow, dirt, debris, or ice, the system may be inoperative until the snow or ice melts, or the debris is removed. Use a soft cloth to wipe debris away from the sensor.
- Do not push, scratch or strike the sensor with any hard objects that could damage the surface of the sensor. Sensor damage could occur.
- Do not spray the sensors or its surrounding area directly with a high pressure washer. Doing so may cause the sensors to fail to operate normally.

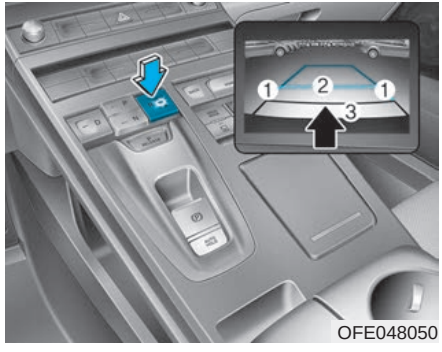
⚠ WARNING

Your new vehicle warranty does not cover any accidents or damage to the vehicle or injuries to its occupants related to a Parking Distance Warning (Reverse/Forward) system.

Always drive safely and cautiously.

Rear View Monitor (if equipped)


OFE048049



OFE048050

The Rear View Monitor will activate when the vehicle is in the ready ( ) mode and the gear is in the R (Reverse) position.

This is a supplemental system that helps provide a view of the area behind the vehicle through the AVN screen while the vehicle is in the R (Reverse) position.

⚠ WARNING

The Rear view monitor is not a safety device. It only serves to assist the driver in identifying objects directly behind the middle of the vehicle. The camera does NOT cover the complete area behind the vehicle.

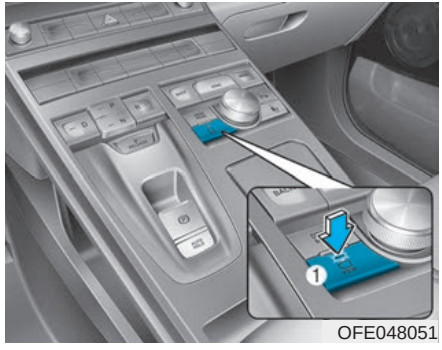
⚠ WARNING

- **Never rely solely on the rear camera display when backing-up.**
- **ALWAYS look around your vehicle to make sure there are no objects or obstacles before moving the vehicle in any direction to prevent a collision.**
- **Always pay close attention when the vehicle is driven close to objects, particularly pedestrians, and especially children.**

NOTICE

Always keep the camera lens clean. The camera may not work normally if the lens is covered with dirt, water or snow.

Surround View Monitoring (if equipped)



The Surround View Monitoring system can assist in parking by allowing the driver to see around the vehicle.

Push the button (1, indicator ON) to operate the system. To cancel the system, push the button again (1, indicator OFF).

The system is activated when:

- The POWER button is in the ON position
- The gear is in D (Drive), N (Neutral) or R (Reverse)
- Vehicle speed is under 10 mph (15 km/h)

The system is deactivated when:

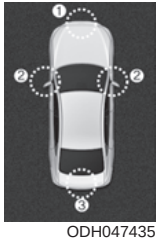
- You press the button (1) again
- Vehicle speed is over 10 mph (15 km/h)

Information

- **When vehicle speed is over 10 mph (15 km/h), the system will turn off. The system will not automatically turn on again, even though vehicle speed gets below 10 mph (15 km/h). Push the button (1, indicator ON) again, to turn on the system.**
- **When the vehicle is backing up, the system will turn ON regardless of vehicle speed or button status. However, if vehicle speed is over 10 mph (15 km/h) when driving forward, the SVM system will turn off.**
- **A warning appears on the system when:**
  - **The liftgate is opened**
  - **The driver's door is opened**
  - **The passenger's door is opened**
  - **The outer side view mirror is folded**
- **If the system is not operating normally, the system should be checked by an authorized HYUNDAI dealer.**

For more details, refer to the separately supplied manual with your vehicle.

⚠ CAUTION



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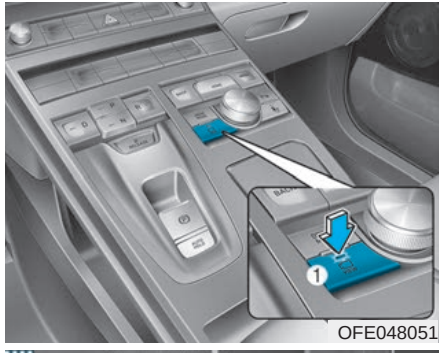
(1) Front camera
(2) Left/Right camera
(3) Rear camera

Surround View Monitor system only serves to assist the driver in parking. ALWAYS look around your vehicle to make sure there are no objects or obstacles before moving the vehicle.

NOTICE

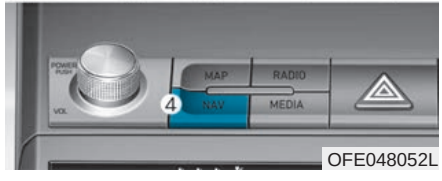
Always keep the camera lens clean. The camera may not work normally if the lens is covered with foreign material.

Driving Rear view Monitor (DRM) (if equipped)



OFE048051





OFE048052L

You may check the rear view through the screen while driving.

The system is activated when:

- The POWER button is in the ON position and the gear is in the N (Neutral) or D (Drive) position.
- The vehicle's speed is over 10 mph (15 km/h) and you press the SVM button (1, indicator ON)
- The vehicle's speed is under 10 mph (15 km/h) and you press the  (2) on the screen

The system is deactivated when:

- You press the SVM button (1, indicator OFF) again
- You press any other view mode buttons (3) on the screen again.
- You press the AVN system button (4)

Information

- If vehicle speed is over 10 mph (15 km/h)
  - the DRM image stays ON when the rear view was on the screen
  - screen (top, front wide, front right and front left) of other modes of SVM system turns OFF and switches to the original AVN screen when other modes were on the screen
- If the SVM system is ON and the vehicle speed is under 10 mph (15 km/h)
  - the rear image stays ON when the rear view was on the screen
  - a pop-up for selecting the SVM mode (top, front wide, front right and front left) appears when pressing any other view mode buttons (3) than  (2) on the screen.
- When the vehicle is backing up, the rear image will appear on the screen automatically regardless of vehicle speed or SVM button (1) status.
  - If the rear image was ON, the screen switches to the parking assist screen.
  - If the screen (top, front wide, front right and front left) of other modes of SVM system was ON, the screen for setting the initial rear view mode appears.
  - When the shift gear is moved from R (Reverse) to D (Drive), the screen of the previous mode is displayed.
- A warning appears on the system when:
  - The liftgate is opened
  - The driver's door is opened
  - The passenger's door is opened
  - The outer side view mirror is folded
- If the system is not operating normally, the system should be checked by an authorized HYUNDAI dealer.

For more details, refer to the separately supplied manual with your vehicle.

REMOTE SMART PARKING ASSIST (RSPA) (IF EQUIPPED)

REMOTE SMART PARKING ASSIST (RSPA) system helps drivers park their vehicle by using sensors to detect parking spaces, control the steering wheel, shift the gear and adjust vehicle speed automatically with instructions through sound and AVN screen.

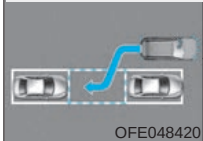
Applicable RSPA modes :

- Smart Parking/Remote Smart Parking: The system provides assistance for reverse parking (perpendicular parking) and parallel parking.
- Smart Exit : The system provides assistance for forward parallel exit.
- Remote Moving Forward/Backward: The system provides assistance for forward/backward movement in the parking space with driver outside the vehicle.

The system does not work if there is no car parked in front of the parking space you are planning to park or if it is a diagonal parking space.

After parking your vehicle using the system, the vehicle may not be parked at the exact spot you have wished.

To prevent frequency interference, the heater and air conditioner may be turned off when the system is activated.

Assistance provided	Relevant function	
■ Reverse parking  OTM048058	Smart Parking	O
	Remote Smart Parking	O
■ Parallel parking  OFE048420	Smart Parking	O
	Remote Smart Parking	O
■ Parallel exit  OFE048421	Smart Exit	O
	Remote Smart Exit	X
■ Forward/Backward  OFE048054	Remote Moving Forward/ Backward	O

❉ O : Available, X : Unavailable

P	Remote Smart Parking Assist button
P	Parking Distance Warning button

Deactivate the system and park/exit your vehicle manually, when the situation requires parking manually.

The Parking Distance Warning system's front and rear warning sound and Surround View Monitor (SVM) system activate while RSPA is activated.

The system will be canceled if the Parking Distance Warning system is cancelled by pressing the button to the OFF position.

For operation of the Parking Distance Warning system and the SVM system, refer to the relevant description in this manual.

⚠ WARNING

- **The RSPA system should only be considered as a supplementary function. The driver must check the front and rear view for objects. The operational function of the system can be affected by many factors and conditions of the surroundings, so the responsibility rests always with the driver.**
- **The system may not operate normally if the vehicle needs wheel alignment adjustment. Have the vehicle checked by an authorized HYUNDAI dealer.**
- **If you use a different tire or wheel size rather than the size recommended by the HYUNDAI dealer, the system may not work properly. Always use the same size tire and wheel.**

⚠ WARNING

- **Do not use the system when in drunken state.**
- **The system may not operate properly depending on the surrounding environment and other conditions.**
- **The system may not recognize the object too close to the vehicle.**
- **When operating the system, be careful of the objects located above or below the sensor position. Such object may damage the vehicle or other objects.**
- **Do not let children or other person to use the smart key.**

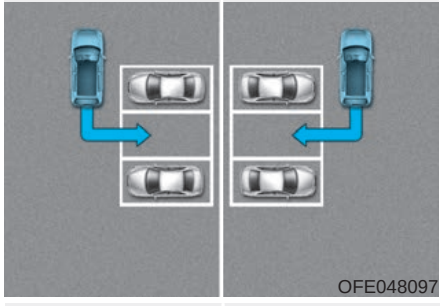
Operating Condition

Use the system when all the below conditions are met.

- When the parking space is a straight line
- When there is a parked vehicle next to the space where you want to park
- When there is enough space to move the vehicle
- When you choose "Confirm" on AVN booting.

■ Right side
- Reverse parking

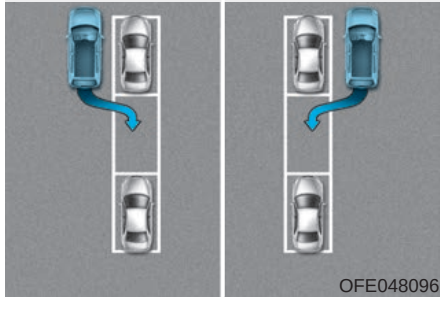
■ Left side
- Reverse parking



OFE048097

■ Right side
- Parallel parking

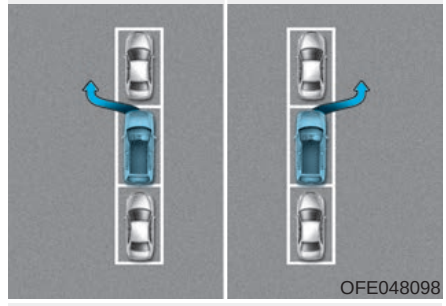
■ Left side
- Parallel parking



OFE048096

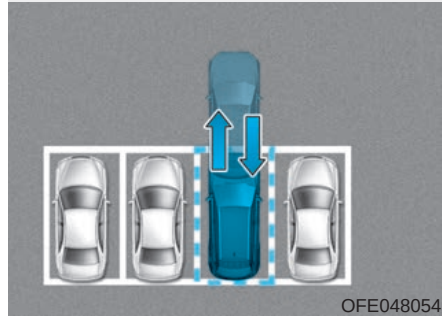
■ Left side
- Parallel exit

■ Right side
- Parallel exit



OFE048098

■ Remote forward/backward



OFE048054

Non-operating Condition

In the following conditions, the RSPA system may not operate properly or be cancelled. Drive the vehicle manually in the below conditions.

- Curved parking space
- Inclined roads
- A vehicle loaded with longer or wider cargo compared to the vehicle
- Diagonal parking space
- Heavy snow or rain
- Near a circular pillar or narrow pillar, or a pillar surrounded by objects such as fire extinguisher, etc.
- The sensor is positioned incorrectly by an impact to the bumper
- Bumpy roads
- A vehicle equipped with a snow chain or spare tire
- Tire pressure lower or higher than the standard tire pressure
- A trailer connected to the vehicle
- Slippery or uneven road
- Around the vehicle with tow hitch

- Big vehicles such as buses or trucks parked
- Sensor covered with foreign matter, such as snow or water
- An obstacle such as a trash can, bicycle, shopping cart, etc. is near
- Heavy wind
- Wheel changed to an unauthorized size
- A problem with the wheel alignment
- Vehicle leaned severely to one side
- Front or rear distance sensors are malfunction or not working properly. (Refer to the Parking Distance Warning system in chapter 3.)
- Low level of the smart key that requires battery replacement

Limitations of the System

- When the vehicle has been parked/stopped for a long time in a cold environment, the Remote Moving Forward/Backward may be delayed depending on the vehicle condition when the vehicle is turned on remotely.
- The RSPA system may suddenly apply brake to avoid collision against stationary or moving object.
- The system may be cancelled unexpectedly when a person or animal passes by near the vehicle.
- The performance of the system may be degraded and frequently stop when driving in strong electric field area.
- Right after the parking place search complete and beep sound is generated, the search complete may be cancelled according to the surrounding environment
- Even while the system is in activation, the vehicle may collide with the object existing within the blind-spot area of the sensor.
- When there is any obstacle within the blind-spot area, drive out of the parking space manually.
- The system may not recognize the object that appears suddenly.
- The system does not work if there is no car parked in front of the parking space you are planning to park.

⚠ WARNING

Do not use the RSPA system in the following conditions for unexpected results may occur and cause a serious accident.

1. Parking on inclines



Park and exit manually when you park on inclines.

2. Parking in snow



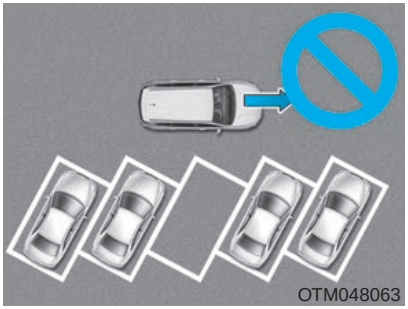
Snow may interfere with sensor operation or the system may cancel if the road is slippery while parking.

3. Parking in narrow space



The system may not search for parking spaces if the space is too narrow. Even if the system is operating, always be careful.

4. Parking diagonal



The system is not a supplemental for diagonal parking. Even if the vehicle is able to enter the space, do not operate the System.

5. Parking in uneven road



The system may cancel when the vehicle slips or the vehicle couldn't move due to road condition.

6. Parking behind a truck



An accident may occur when parking behind a vehicle higher than yours. For example, bus, truck, etc.

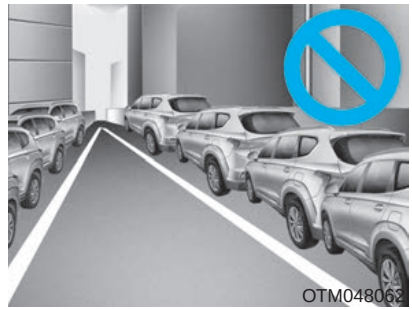
Do not solely rely on the Parking Assist system.

7. Obstacle in parking space



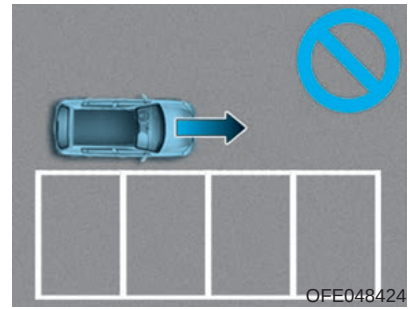
When detecting for a parking space next to pillar, the parking performance may be degraded.

8. Using a Smart Exit in wall proximity conditions



When using a Smart Exit in narrow and near a wall, the system may not work properly.

9. Parking in an empty parking place



The system does not work if there is no car parked in front of the parking space you are planning to park. Park the vehicle manually.

How the System Works (Smart Parking)

Smart Parking is available with the driver on board. Make sure the conditions available before activating the Smart parking function.

1. Select Smart Parking:

   Press the RSPA button with the shift lever placed in D (Drive) or N (Neutral) position.

   ❉ However, the Smart Exit is selected if you press the RSPA button when the gear is in N (Neutral) position after the initial startup.

2. Search for parking space: Slowly move forward below 12 mph (20 km/h)
3. Search complete: Automatic search by sensor.

   However, check the actual parking environment before parking the vehicle.

4. Select parking type: Reverse (left/right), parallel (left/right)
5. Operating instructions: Smart Parking/Remote Smart Parking

⚠ CAUTION

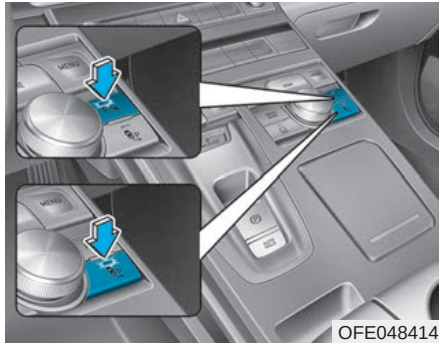
- **Always check for obstacles around your vehicle before driving.**
- **The function may be cancelled if you attach something (cover, etc.) to the steering wheel.**

6. Smart Parking assist: Steering wheel, gear shift and vehicle speed control (reverse parking).
7. Parking complete: Smart Parking complete after reaching the parking position

❉ After the parking is complete, arrange the vehicle position manually, if necessary.

❉ You can use Smart Parking after navigation or home screen display on AVN (You cannot use Smart Parking if you don't choose "Confirm" on AVN booting)

1. Selecting Parking mode



P	Remote Smart Parking Assist button
P	Parking Distance Warning button

- Press the Remote Smart Parking Assist button and the button indicator will illuminate.
- The Parking Distance Warning button will illuminate and the AVN screen will display the instruction screen.

  A warning sound will be heard if an obstacle is detected.

- To deactivate the system:

1. Press the RSPA button again (until the "Selecting parking mode" stage).
2. Shift the gear to R (Reverse) position before the operation of the Smart Parking assist.
3. Press the 'Cancel' button on the AVN screen while the Smart Parking is in activation.
4. Press the Parking Distance Warning button while the Smart Parking is in activation.

2. Searching for parking space



OFE048134L

- Slowly drive forward maintaining the distance of approximately 20 in ~60 in (0.5 ~1.5 m) with the parked vehicles.
- If the vehicle speed is over 12 mph (20 km/h), a message will appear to notify you to reduce the speed.
- To deactivate the parking function, press the RSPA button, the 'Cancel' button on the screen or the Parking Distance Warning button.

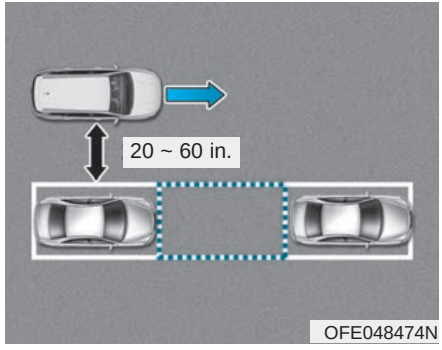
❈ The parking performance may be degraded if a regular distance from the parked vehicle is not maintained.

- If the vehicle speed is over 19 mph (30 km/h), the system will be cancelled.
- The search for a parking space will be completed only when there is enough space for the vehicle to move to park.

⚠ CAUTION

- When searching for a parking space, the system may not be able to find a parking space if there is no vehicle parked, a parking space is available after driving by or a parking space is available before driving by.
- The system may not operate normally in the following conditions:
  (1) When the sensors are frozen
  (2) When the sensors are dirty
  (3) When it snows or rains heavily
  (4) When a pillar or object is near
  (5) Parked vehicle is abnormally parked

In above cases, the system may not search the parking space although the parking space exists. And the system may search the parking space although the parking space is not proper to park.



⚠ CAUTION

Slowly drive forward maintaining the distance of approximately 40 in. (100 cm) with the parked vehicles. If the distance is below 20 in. (50 cm) or over 60 in. (150 cm), the system may not be able to search for a parking space.

⚠ CAUTION

After searching for a parking space is completed, continue using the system after checking the surrounding area.

Especially, check the distance of the outside rearview mirror and objects while using the system to prevent careless accidents.

3. Search complete



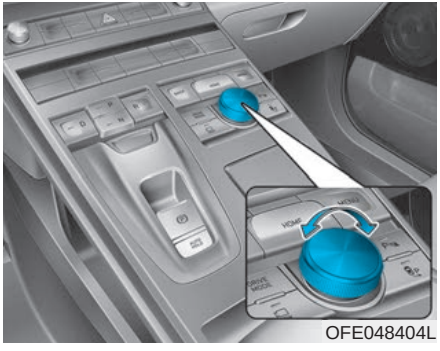
OFE048135L

- If the search is complete, the above message will appear with a ding-dong sound.
- The search complete sound is generated every time a parking space is searched. Icons indicating the selectable parking type and direction are activated on the screen.
- To deactivate parking function, press the RSPA button, the 'Cancel' button on the screen or the Parking Distance Warning button.
- Keep driving forward to go back to the previous stage for searching the parking space.

4. Selecting parking type



OFE048136L



OFE048404L

- With the vehicle stopped, select the icon for the desired parking type. To select the parking type, touch the AVN screen or operate the DIS central controller to select and press the icon.
- To deactivate the parking function, press the RSPA button or the 'Cancel' on the screen or the Parking Distance Warning button.
- Keep driving forward to go back to the previous stage for searching the parking space.

❈ If the Smart Parking is deactivated when the driver presses the RSPA button by mistake before selecting the parking type, press the RSPA button while the vehicle is stopped to return to the stage for selecting the parking type.

5. Operating instructions



OFE048137L

- After selecting the parking type, the driver can select the operation mode between the Smart Parking and Remote Smart Parking. Follow the instruction on the screen and press and hold the RSPA button to select the Smart Parking. To select the Remote Smart Parking put the shift gear in P (Park) position and follow the instruction.
- To deactivate the parking assist function, press the 'Cancel' button on the screen or the Parking Distance Warning button.

❈ To see the instruction for the Remote Smart Parking, refer to the relevant part of the manual.

❈ Depress the brake pedal when selecting the operation mode. The function will be deactivated when the vehicle moves.



OFE048138L

❈ If the Remote Smart Parking is unavailable, the message is shown on the screen when selecting the parking type.

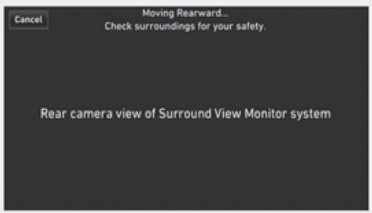
⚠ WARNING

Always be careful while parking for other vehicles or pedestrians.

6. Smart parking assist



OFE048165N



OFE048166N

- With the vehicle stopped, press and hold the RSPA button and then the steering wheel, gear shift and vehicle speed are controlled automatically.
- The parking function will not operate if the door is open or the driver's seatbelt is unfastened.
- If the driver releases the RSPA button while the Smart Parking is in activation, the assist will stop temporarily.

❈ The AVN screen will display the rear camera view when the vehicle is moving forward (if equipped with the Rear View Camera).

❈ Depress the brake pedal to control the vehicle speed. The accelerator pedal will not activate. The system will be cancelled when the vehicle speed exceeds 3 mph (5 km/h).

7. Smart parking complete



OFE048141L

Complete parking your vehicle according to the instructions on the AVN screen. If required, manually control the steering wheel and complete parking your vehicle.

When the parking is complete:

- The gear P (Park) and Electronic Parking Brake (EPB) are engaged automatically.
- Release the RSPA button.

❈ The parking may complete bumping on the stopper.

❈ When parking is complete, check the surrounding conditions.

⚠ CAUTION

If the Parking Distance Warning system warning sound (distance from object is within 12 in. (30 cm): continuous beep) occurs, check the surrounding.

To cancel the Smart Parking while in operation

(1) Press the RSPA button before selecting the operation mode.
(2) Shift the gear to to R (Reverse) position before the operation of the "Smart Parking assist" stage.
(3) Press the Parking Distance Warning button or the 'Cancel'button on the AVN screen.
(4) Driver controls the vehicle during the system assist

When the driver shifts the gear after depressing the brake pedal to stop the vehicle, the gear shifts and the Smart Parking is deactivated. In this case, the Electronic Parking Brake (EPB) is not engaged.

The Smart Parking assist will stop temporarily when:

(1) An obstacle at the direction the vehicle is heading is detected.
(2) The door or liftgate is open.
(3) The driver's seatbelt is unfastened.
(4) The Rear Cross-Traffic Collision-Avoidance Assist (RCCA) system is activated while reversing.
(5) The driver releases the RSPA button.
(6) The drivers stops the vehicle by depressing the brake pedal.

❊ The vehicle stops when the Smart Parking assist will stop temporarily and the Smart Parking assist will resume when the above condition is cleared.

The Smart Parking assist is cancelled while in operation when:

(1) The driver holds the steering wheel while the steering wheel is controlled

(2) The gear is shifted or the Electronic Parking Brake (EPB) is activated

(3) The hood opens

(4) The vehicle speed exceeds 3 mph (5 km/h)

(5) The vehicle accelerates suddenly

(6) The vehicle slips back while the vehicle speed is controlled

(7) The wheel is stuck and the vehicle is unable to move

(8) The obstacles are at the front and back of the vehicle at the same time

(9) About 3 minutes and 50 seconds have passed after the Smart Parking assist is activated

(10) The door opens while the driver's seatbelt is unfastened

(11) The gradient of the road exceeds the range supported by the Smart Parking assist

(12) The steering, shifting gear and drive assist are impossible

(13) The suspended status lasts for over 1 minute

(14) The driver continuously presses and releases the RSPA button over 10 times

(15) The vehicle is unable to enter the parking space while the Smart Parking assist is in activation

(16) The Traction Control System (TCS) is activated while the vehicle speed is controlled

❈ When the Smart Parking assist is cancelled, gear P (Park) and Electronic Parking Brake (EPB) are engaged automatically.

How the System Works (Remote Smart Parking)

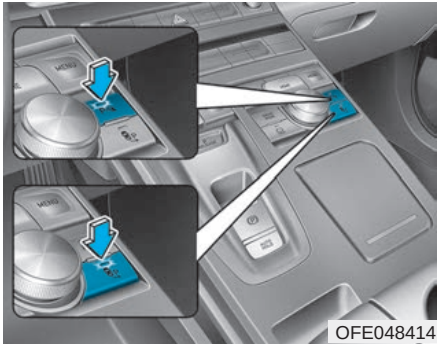
Remote smart Parking is available with the driver outside the vehicle. Make sure the conditions available before activation the Remote smart parking function.

1. Select Remote Smart Parking:

   Press the RSPA button with the shift lever placed in D (Drive) or N (Neutral) position.

   However, the Smart Exit is selected if you press the RSPA button when the vehicle is in N (Neutral) position after the initial startup.
2. Search for parking space: Slowly move forward below 12 mph (20 km/h).
3. Search complete: Automatic search by sensor.

   However, check the actual parking environment before parking the vehicle.
4. Select parking type: Reverse (left/right), parallel (left/right)
5. Operating instructions: Smart Parking/Remote Smart Parking
6. Remote Smart Parking assist: Steering wheel, gear shift and vehicle speed control (reverse parking)
7. Remote Smart Parking complete


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❈ You can use Smart Parking after navigation or home screen display on AVN(You cannot use Smart Parking if you don't choose "Confirm" on AVN booting)

P	Remote Smart Parking Assist button
	Parking Distance Warning button
HOLD	Remote start button
	Moving forward button
	Moving backward button

6. Remote smart parking assist



OFE048142L

Put the shift gear in P (Park) position. Exit the vehicle possessing the smart key and check whether all the doors are closed. The Remote Smart Parking assist will operate only if the driver presses the smart key button within about 13 ft. (4 m) from the vehicle. Press and hold the moving forward or backward button on the smart key and then the steering wheel, gear shift and vehicle speed are controlled automatically.

❈ The driver should release the seat belt before getting off.

❈ While Remote smart parking assist is operating, the air conditioning system turns off temporarily.

- If the driver releases the button the vehicle will stop and the assist will stop temporarily. Press and hold the button again to resume the operation.

❉ You will hear frequent beep sounds if the driver gets off the vehicle after setting the Remote Parking mode.

❉ Press the moving forward or backward button again after checking the distance (within about 10 ~ 16 ft. (3~5 m)) from the vehicles if the vehicle didn't move after pressing and holding the smart key button for about 5 seconds.

7. Remote smart parking complete

When the parking is complete, the message is displayed on the AVN screen and the vehicle is automatically turned off. Drivers always should check whether the door, window and sunroof are closed and the door is locked.

- When parking is complete:

- The parking complete sound (frequent beep) is generated.
- The gear P (Park) and Electronic Parking Brake (EPB) are engaged automatically.

❉ Release the moving forward/backward button on the smart key.

❉ The parking may complete bumping on the stopper.

❉ When parking is complete, check the surrounding conditions.

⚠ CAUTION

- **Always check for obstacles around your vehicle before driving.**
- **The function may be cancelled if you attach something (cover, etc.) to the steering wheel.**
- **Make sure all the passengers exit the vehicle when the Remote Smart Parking is assisted.**
- **Make sure all the smart keys are outside the vehicle.**
- **The smart key detection range from the vehicle may vary depending on the surrounding environment (indoor/outdoor, strong electric field area).**
- **The smart key detection range may change as the vehicle moves. Maintain an appropriate distance from the vehicle.**

To cancel the Remote Smart Parking while in operation

(1) Press the RSPA button at the "Searching for parking space" stage or the "Selecting parking type" stage.

(2) Shift the gear to R (Reverse) position before the operation of the Remote Smart Parking assist.

(3) Press the Parking Distance Warning button or the 'Cancel' button on the AVN screen.

(4) Driver controls the vehicle during the system assist.

- The Remote Smart Parking is immediately cancelled and the vehicle turns off when the remote start button on the smart key is pressed.
- The function is cancelled but the vehicle stays on when the driver enters the vehicle with the smart key and all the doors are closed or the driver depresses the brake pedal.

The Remote Smart Parking assist will stop temporarily when:

(1) An obstacle at the direction the vehicle is heading is detected.

(2) The door or liftgate is open.

(3) The moving forward/backward button on the smart key is released.

(4) Multiple buttons on the smart key are pressed at the same time.

(5) The distance between the smart key and vehicle is over 13 ft (4m).

(6) A button on the other smart key is pressed.

(7) Rear Cross-Traffic Collision-Avoidance Assist system is activated while reversing.

❈ The vehicle stops when the Remote Smart Parking assist will stop temporarily and the Remote Smart Parking assist will resume when the above condition is cleared.

The Remote Smart Parking assist is cancelled while in operation when:

(1) The driver holds the steering wheel while the steering wheel is controlled

(2) The gear is shifted or the Electronic Parking Brake (EPB) is activated

(3) The hood opens

(4) The vehicle speed exceeds 3 mph (5 km/h)

(5) The vehicle accelerates suddenly

(6) The vehicle slips back while controlling the vehicle speed

(7) The wheel is stuck and the vehicle is unable to move

(8) Obstacles are at the front and back of the vehicle at the same time

(9) About 3 minutes and 50 seconds have passed after the Remote Smart Parking assist

(10) The gradient of the road exceeds the range supported by the Remote Smart Parking assist

(11) The steering, shifting gear and drive assist are impossible

(12) The suspended status lasts for over 1 minute

(13) The driver continuously presses and releases the smart key's moving forward/backward button over 10 times

(14) The vehicle is unable to enter the parking space

(15) The Traction Control System (TCS) is activated while controlling the vehicle speed

(16) The smart key has failure

(17) The accelerator/brake pedal is depressed while all the doors are closed

(18) The brake pedal is depressed while the driver's door is open and the smart key is outside the vehicle

(19) The theft alarm system is activated

- When the Remote Smart Parking assist is cancelled, gear P (Park) and Electronic Parking Brake (EPB) are engaged automatically. After engaged, the vehicle is automatically turned off.
- Frequent beep sounds will generate to alert the deactivation of the Remote Smart Parking Assist.

How the System Works (Smart Exit)

Smart exit is available with the driver on board. Make sure the conditions available before activation the Smart parking function.

1. Select Smart Exit:

   Press the RSPA button with the shift lever placed in P (Park) or N (Neutral) position without driving the vehicle after the initial startup.

   *N (Neutral): Press RSPA button after starting the vehicle and without driving the vehicle. The Smart Exit is selected. Then the Parking mode is automatically selected after driving.

   *P (Park): After driving the vehicle press RSPA button and Remote Moving Forward/Backward is automatically selected.
2. Search for smart exit space: Automatic searching by sensor at stop

   However, check the actual environment before using Smart exit function.
3. Select smart exit direction: Parallel (left/right)
4. Smart Exit assist: Steering wheel, gear shift and vehicle speed control (parallel exit)
5. Smart Exit complete

⚠ WARNING

Always be careful while exiting for other vehicles or pedestrians.

After the Smart Exit is complete, make sure to check the surrounding road conditions.

However, the Exit mode is activated when below conditions are met:

- The vehicle speed is kept under 3 mph (5 km/h) after the vehicle is turned on.
- The parallel parking by the Remote Smart Parking assist is complete.

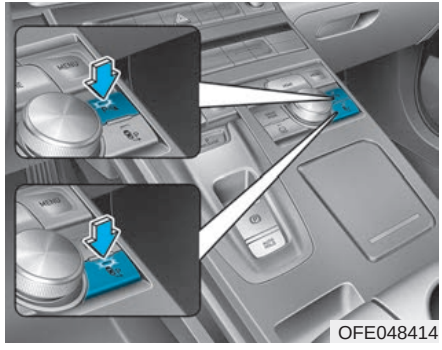
❈ You can use Smart Parking after navigation or home screen display on AVN(You cannot use Smart Parking if you don't choose "Confirm" on AVN booting)

	Remote Smart Parking Assist button
	Parking Distance Warning button

⚠ CAUTION

- **Always check for obstacles around your vehicle before driving.**
- **The function may be cancelled if you attach something (cover, etc.) to the steering wheel.**

1. Selecting smart exit mode



- Press the RSPA button and the button indicator will illuminate.
- The Parking Distance Warning button will illuminate and the AVN screen will display the instruction screen.

  A warning sound will be heard if an obstacle is detected.

- To deactivate the system:

1. Press the RSPA button again (until the "Selecting for smart exit direction" stage).
2. Shift the gear to R (Reverse) position before the operation of the Smart Exit assist.
3. Press the 'Cancel' button on the AVN screen while the Smart Exit is in activation.
4. Press the Parking Distance Warning button while the Smart Exit is in activation.

2. Searching for smart exit space



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- With vehicle stopped, the Parking Distance Warning system sensors detect the distance from/to the objects in front/back of the vehicle to search for an exit space.
- Also, the sensors at the vehicle side-front checks for the obstacle in the direction of exit.
- To deactivate the exit function, press the RSPA button, the 'Cancel' button on the screen or the Parking Distance Warning button.

❈ The system searches for the exit space again when the system enters the Smart Exit mode by pressing the RSPA button after the deactivation.

❈ The system still searches for the exit space when the gear is shifted to the other positions than R (Reverse). However, the function will be deactivated when the vehicle moves.

⚠ CAUTION

- **When checking surroundings, if the front or rear vehicle (or object) is too near, the system may not work properly.**
- **The system may not operate normally in the following conditions:**
  - **(1) When the sensors are frozen**
  - **(2) When the sensors are dirty**
  - **(3) When it snows or rains heavily**
  - **(4) When a pillar or object is near**
  - **(5) Parked vehicle is abnormally parked**

  In above cases, the system may not search the exit space although the exit space exists. And the system may search the exit space although the exit space is not proper to Smart exit.
- **When exiting the parking space if an obstacle is detected that may cause an accident, the system may cancel. However, objects in the blind spot may not be recognized. Be sure to check it before using function.**
- **If the space is too small to exit, the system may cancel.**

⚠ CAUTION

- **If searching surroundings is completed, continue using the system after checking the surrounding area.**
- **The Exit mode may be activated unintentionally, when the shift gear is in P (Park) or N (Neutral) and the Parking Assist system button is pressed.**

3. Selecting smart exit direction



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- With the vehicle stopped, select the icon of the direction you wish to exit. To select the exit direction, touch the AVN screen or operate the DIS central controller to select and press the icon.
- To deactivate the exit function, press the RSPA button, the 'Cancel' button on the screen or the Parking Distance Warning button.

❈ The system searches for the exit space again when the system enters the Smart Exit mode by pressing the RSPA button after the deactivation.

❈ The system still searches for the exit space when the gear is shifted to the other positions than R (Reverse). However, the function will be deactivated when the vehicle moves.

4. Smart exit instructions



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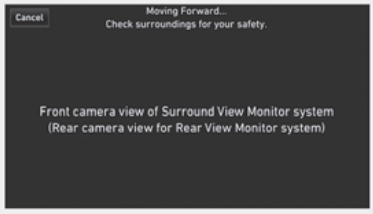
- Follow the instructions on the screen and press and hold the RSPA button to select the Smart Exit.
- To deactivate the Smart Exit, press the 'Cancel' button on the screen or the Parking Distance Warning button.

❈ The system still searches for the exit space when the gear is shifted to the other positions than R (Reverse). However, the function will be deactivated when the vehicle moves.

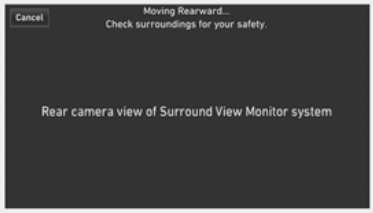
⚠ CAUTION

- **Always check the surrounding before driving your vehicle if the Parking Distance Warning sound (distance from object is within 12 in. (30 cm): continuous beep) is heard for the object is close to your vehicle.**
- **The function may be cancelled if you attach something (cover, etc.) to the steering wheel.**
- **The function can be cancelled for safety reasons if the vehicle is parked at a small space near a wall.**

5. Smart exit assist



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- With the vehicle stopped, press and hold the RSPA button and then the steering wheel, gear shift and vehicle speed are controlled automatically.

- The exit function will not operate if the door is open or the driver's seatbelt is unfastened.
- If the driver releases the RSPA button while the Smart Exit assist is in activation, the assist will stop temporarily.

❈ The AVN screen will display the rear camera view when the vehicle is moving forward (if equipped with the Rear View Camera).

❈ Depress the brake pedal to control the vehicle speed. The accelerator pedal will not activate.

6. Smart exit complete



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When the exit is complete, the message is displayed on the AVN screen. Turn the steering wheel to the direction of exit as much as possible and exit manually after checking the road condition.

- When exit is complete:
  - The vehicle stays in stopped condition for 4 seconds and waits for the driver' to operate manually (depress brake/accelerator pedal.)
  - If the driver does not operate manually after 4 seconds, the system stays in the stopped condition by applying the safety measure (engage gear P (Park) and Electronic Parking Brake (EPB)).

❈ Release the RSPA button after the exit is complete.

❈ If the Smart Exit has been completed while depressing the accelerator pedal, take your foot off the pedal and depress again for manual operation.

❈ If the Smart Exit has been completed while depressing the brake pedal, the gear D (Drive) is maintained.

To cancel the Smart Exit while in operation

(1) Press the RSPA button at the "Searching for smart exit space" stage or the "Selecting for smart exit direction" stage.

(2) Shift the gear to R (Reverse) position before the operation of the Smart Exit assist.

(3) Press the Parking Distance Warning button or the 'Cancel' button on the AVN screen.

(4) Driver controls the vehicle during the system assist

The function is deactivated when the driver stops the vehicle by depressing the brake pedal and shifts the gear. In this case, the Electronic Parking Brake (EPB) is not engaged.

The Smart Exit assist will stop temporarily when:

(1) An obstacle at the direction the vehicle is heading is detected.

(2) The door or liftgate is open.

(3) The driver's seatbelt is unfastened.

(4) The Rear Cross-Traffic Collision-Avoidance Assist (RCCA) system is activated while reversing.

(5) The driver releases the RSPA button.

(6) The driver stops the vehicle by depressing the brake pedal.

❈ The vehicle stops when the Smart Exit assist will stop temporarily and the Smart Exit assist will resume when the above condition is cleared.

The Smart Exit assist is cancelled while in operation when:

(1) The driver holds the steering wheel while the steering wheel is controlled

(2) The gear is shifted or the Electronic Parking Brake (EPB) is activated

(3) The hood opens

(4) The vehicle speed exceeds 3 mph (5 km/h)

(5) The vehicle accelerates suddenly

(6) The vehicle slips back while controlling the vehicle speed

(7) The wheel is stuck and the vehicle is unable to move

(8) Obstacles are at the front and back of the vehicle at the same time

(9) About 3 minutes and 50 seconds have passed after the Smart Exit assist

(10) The door opens while the driver's seatbelt is unfastened

(11) The gradient of the road exceeds the range supported by Smart Exit assist

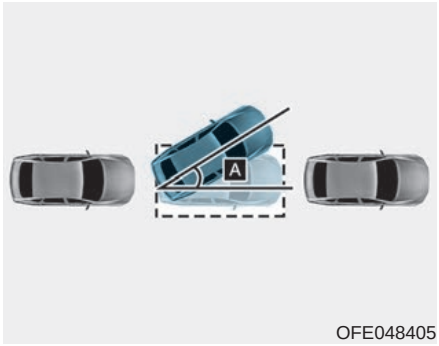
(12) The steering, shifting gear and drive assist are impossible

(13) The suspended status lasts for over 1 minute

(14) The driver continuously presses and releases the RSPA button over 10 times

(15) The Traction Control System (TCS) is activated while controlling the vehicle speed

(16) The vehicle's heading degree (A) exceeds a certain amount of degree compare to the degree at the point when the Smart Exit assist started



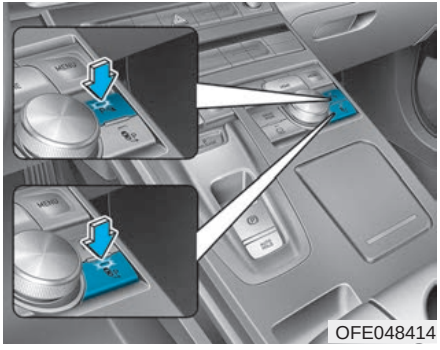
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❈ When the Smart Exit assist is cancelled, gear P (Park) and Electronic Parking Brake (EPB) are engaged automatically.

How the System Works (Remote Moving Forward/ Backward)

Remote moving forward/backward is available with the driver outside the vehicle. Make sure the conditions available before activation the Remote moving forward/backward function.

1. Remote Moving Forward/ Backward ready:
   (1) With the vehicle off: Remotely turn on the vehicle.
   (2) With the vehicle on: Put the gear shift in P (Park) position and press the RSPA button. Then exit the vehicle possessing the smart key.
   ❈ To use this function,
   - the vehicle must have been driven over 3 mph (5 km/h) and
   - the vehicle is not turned off before activating the function.
2. Remote Moving Forward/Backward assist: Press and hold the moving forward/backward button of the smart key to provide the Remote Moving Forward/Backward assist through steering wheel, gear shift and vehicle speed control.
3. Remote Moving Forward/Backward complete: When the vehicle reaches the desired position, release the smart key button. Then complete the Remote Moving Forward/ Backward by entering the vehicle possessing the smart key or by pressing the remote start button of the smart key.



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	Remote Smart Parking Assist button
	Parking Distance Warning button
HOLD	Remote start button
	Moving forward button
	Moving backward button

1. Remote moving ready

You can activate the Remote Moving Forward/Backward in 2 ways.

(1) With the vehicle turned off, press the door lock button of the smart key and then within 4 seconds press the remote start button for over 2 seconds.

❊ For the details of remote start up, refer to 'Remote start' in chapter 3.

(2) Park the vehicle in front of the space where you desire to use the Remote Moving Forward/Backward. Press the RSPA button and select the Remote Moving Forward/Backward. Exit the vehicle possessing the smart key and check whether all the doors are closed.



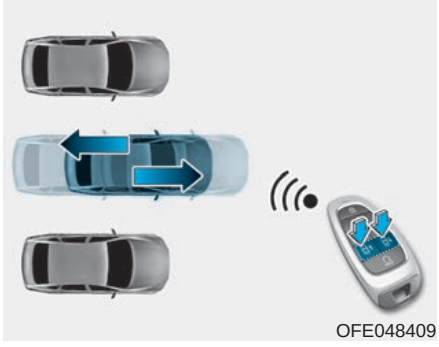
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❈ When the Remote Moving Forward/Backward is ready by the above No. (2) method. You can use Smart Parking after navigation or home screen display on AVN (You cannot use Smart Parking if you don't choose "Confirm" on AVN booting)

❈ You will hear frequent beep sounds if the driver gets off the vehicle after the Remote Moving Forward/Backward is ready.

❈ The driver should release the seat belt before getting off.

2. Remote moving forward/backward assist



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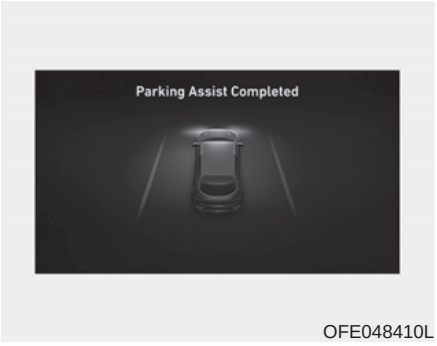
- With the vehicle stopped, press and hold one of the moving forward/backward button and then the steering wheel, gear shift and vehicle speed are controlled automatically.
- If the driver releases the moving forward/backward button while the Remote Moving Forward/Backward is in activation, the control will stop temporarily. Press the button again to resume the control.
- For your safety, the assist is activated only when the smart key is within about 10~16 ft. (3~5 m) from the vehicle.
- The vehicle can travel up to 23 ft. (7 m) per move. Press the moving forward/backward button to make additional movement.

❈ Press the moving forward/backward button again after checking the distance from the vehicles if the vehicle didn't move after pressing and holding the smart key button for about 5 seconds.

❈ Under cold weather, take enough time before pressing the moving forward/backward button of the smart key after turning on the vehicle remotely. It may take more time until the vehicle moves.

❈ While Remote moving forward/backward assist is operating, the air conditioning system turns off temporarily

3. Remote moving forward/backward complete



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The Remote Moving Forward/Backward is complete after the driver enters the vehicle possessing the smart key, when the vehicle reaches the desired position. In this case, the vehicle stays on.

- ❊ When Remote Moving Forward/Backward assist is complete, the gear P (Park) and Electronic Parking Brake (EPB) are engaged automatically.
- ❊ The parking complete sound (frequent beep) is generated.

⚠ WARNING

Always be careful of unexpected approach of the other vehicles or pedestrians.

⚠ CAUTION

- **Always check for obstacles around your vehicle before driving.**
- **The function may be cancelled if you attach something (cover, etc.) to the steering wheel.**
- **Make sure all the passengers exit the vehicle when the Remote Moving Forward/Backward is in activation.**
- **Make sure all the smart keys are outside the vehicle when the Remote Moving Forward/Backward assist is in activation.**

To cancel the Remote Moving Forward/Backward while in operation

(1) Press the remote start button on the smart key.

(2) Shift the gear to to R (Reverse) position while the Remote Moving Forward/Backward is instructed.

(3) Press the Parking Distance Warning button or the 'Cancel' button on the AVN screen while the Remote Moving Forward/Backward is instructed.

(4) Driver controls the vehicle during the system assist

- The Remote Moving Forward/Backward is immediately cancelled and the vehicle turns off when the remote start button on the smart key is pressed
- The function is cancelled but the vehicle stays on when the driver enters the vehicle with the smart key and all the doors are closed or the driver depresses the brake pedal.

The Remote Moving Forward/ Backward assist will stop temporarily when:

(1) An obstacle at the direction the vehicle is heading is detected.

(2) The door or liftgate is open.

(3) The moving forward/backward button on the smart key is released.

(4) Multiple buttons on the smart key are pressed at the same time.

(5) The distance between the smart key and vehicle is over 13 ft. (4 m).

(6) A button on the other smart key is pressed.

(7) Rear Cross-Traffic Collision-Avoidance Assist (RCCA) system is activated while reversing.

(8) The vehicle moves 23 ft. (7m) (maximum travel distance per move) with the Remote Moving Forward/Backward while the smart key is pressed.

❈ The vehicle stops when the Remote Smart Parking assist will stop temporarily and the Remote Smart Parking assist will resume when the above condition is cleared.

The Remote Moving Forward/ Backward assist is cancelled while in operation when:

(1) The driver holds the steering wheel while the steering wheel is controlled

(2) The gear is shifted or the Electronic Parking Brake (EPB) is activated

(3) The hood opens

(4) The vehicle speed exceeds 3 mph (5 km/h)

(5) The vehicle accelerates suddenly

(6) The vehicle slips back while controlling the vehicle speed

(7) The wheel is stuck and the vehicle is unable to move

(8) Obstacles are at the front and back of the vehicle at the same time

(9) About 3 minutes and 50 seconds have passed after the Remote Moving Forward/Backward assist

(10) The gradient of the road exceeds the range supported by Remote Moving Forward/ Backward assist

(11) The steering, shifting gear and drive assist are impossible

(12) The suspended status lasts for over 1 minute

(13) The driver continuously presses and releases the smart key's moving forward/backward button over 10 times

(14) The Traction Control System (TCS) is activated while controlling the vehicle speed

(15) The smart key has failure

(16) The accelerator/brake pedal is depressed while all the doors are closed

(17) The brake pedal is depressed while the driver's door is open and the smart key is outside the vehicle

(18) The vehicle travels more than 46 ft. (14 m) after the Remote Moving Forward/Backward assist is activated

(19) The smart key's remote start button is pressed

(20) The theft alarm system is activated

❈ When Remote Moving Forward/Backward is complete, the gear P (Park) and Electronic Parking Brake (EPB) are engaged automatically and the vehicle turns off.

❈ The frequent beep sounds are generated to show the deactivation status.

Additional Instructions (Messages)

When the Remote Smart Parking Assist system is in operation, the system may be cancelled regardless of the instruction order.

The messages will appear according to the circumstances. Follow the instructions provided while driving your vehicle with the Remote Smart Parking Assist system in activation.

Check parking assist



OFE048411L

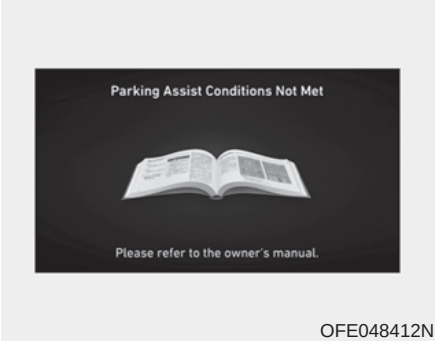
If there is a problem with the system, the above message will appear when the system is turned on.

Also, the indicator on the RSPA button will blink and the warning sound will beep three times.

(The Parking Distance Warning system can be operable depending on the failure type.)

If you notice any problem, have the vehicle checked by an authorized HYUNDAI dealer.

Parking assist conditions not met



OFE048412N

When the Remote Smart Parking Assist system is not getting ready for activation, the above message will appear when the RSPA button is pressed.

Press the RSPA button again after a while and check the normal operation of the system.

Turn Signal Showing Vehicle Status while System in Activation

The turn signal indicates the vehicle status as follows when the Smart Parking, Remote Smart Parking or Smart Exit is in activation:

Vehicle status	Turn signal
Smart Parking/Remote Smart Parking assist in activation	The turn signal of the parking direction blinks until the first reversing is complete or deactivated while parking
Smart Exit assist in activation	The turn signal of the exiting direction blinks until the exit is complete or deactivated

Smart key/Hazard lamp Showing Vehicle Status while System in Activation

The LED on the smart key indicates the vehicle status as follows when the Remote Smart Parking or Remote Moving Forward/Backward is in activation:

Vehicle status	Hazard lamp	Smart key LED
Remote Smart Parking assist in activation	-	Green LED blinks continuously
Remote Smart Parking assist temporarily stopped/in stand by	Flashing	Red LED blinks continuously
Remote Smart Parking deactivated	Off after 3 flashes	Red LED illuminates for about 4 seconds and then extinguishes
Remote Smart Parking complete	Off after one flashes	Green LED illuminates for about 4 seconds and then extinguishes



OFE048423

Link with other Systems

Activation of other systems may be restricted according to the circumstances while the RSPA system is in activation. The systems linked to the RSPA system are as follows:

1. Smart Cruise Control (SCC) system

(1) SCC system can be operated at the same time with the RSPA system until the "Searching for parking space" stage.

(2) The SCC system is deactivated when the RSPA system enters the "Remote Smart Parking assist" stage.

(3) After the RSPA system is complete or deactivated, the SCC system maintains the deactivation status.

2. Auto Hold

(1) The activated Auto Hold is switched to deactivation status when the RSPA system is activated.

(2) The Auto Hold button will not respond while the RSPA system is in activation.

(3) After the RSPA system is complete or deactivated, the Auto Hold will return to the state before the RSPA system was activated.

3. Electronic Stability Control (ESC)

(1) Electronic Stability Control (ESC) system switches from OFF to activation status (ESC OFF button turns off) when the RSPA system is activated.

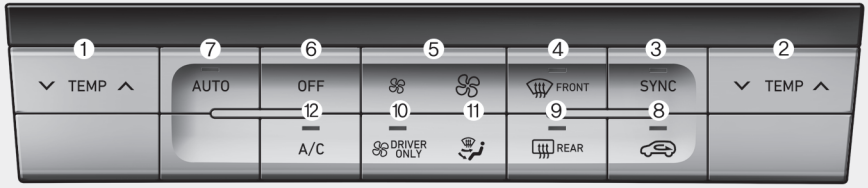
(2) The ESC OFF button will not respond while the RSPA system is in activation.

(3) The ABS/TCS/ESC system activates while the RSPA is in activation.

(4) After the RSPA system is complete or deactivated, ESC maintains the ON status.

AUTOMATIC CLIMATE CONTROL SYSTEM

■ Type A



■ Type B



1. Driver's temperature control knob
2. Passenger's temperature control knob
3. SYNC button
4. Front windshield defroster button
5. Fan speed control button
6. OFF button
7. AUTO (automatic control) button
8. Air intake control button
9. Rear window defroster button
10. Driver only button
11. Mode selection button
12. Air conditioning button

OFE048300/OFE048308

Automatic Temperature Control Mode

The Automatic Climate Control System is controlled by setting the desired temperature.

1. Press the AUTO button (7).

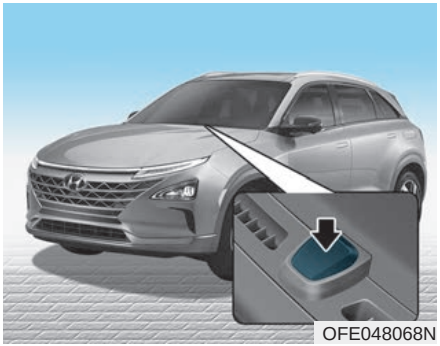
   The modes, fan speeds, air intake and air-conditioning will be controlled automatically by the temperature setting you select.
2. Press the temperature control button (1,2) to the desired temperature. If the temperature is set to the lowest setting (Lo), the air conditioning system will operate continuously. After the interior has cooled sufficiently, adjust the button to a proper temperature set point whenever possible.

To turn the automatic operation off, select any button of the following:

- Mode selection button
- Front windshield defroster button (Press the button one more time to deselect the front windshield defroster function. The 'AUTO' sign will illuminate on the information display once again.)
- Fan speed control button

The selected function will be controlled manually while other functions operate automatically.

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


OFE048068N

NOTICE

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 pushing buttons other than the AUTO button. In this case, the system works sequentially according to the order of buttons selected.

When pressing any button except the AUTO button 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:

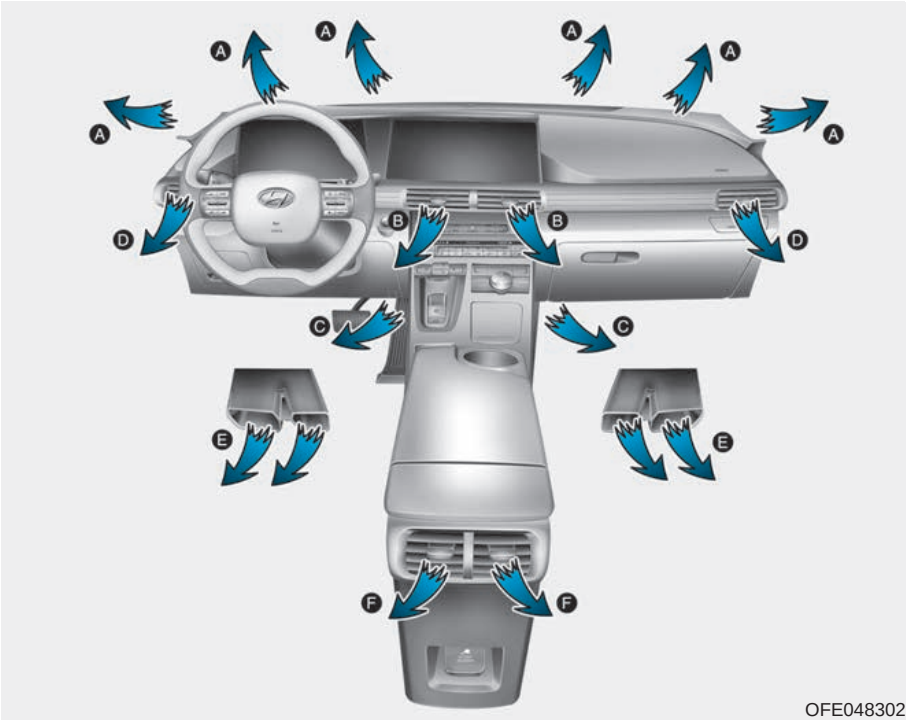
   - Heating:
   - Cooling:
3. Set the temperature control to the desired position.
4. Set the air intake control to Fresh mode or Recirculation mode position.
5. Set the fan speed control to the desired speed.

6. If air conditioning is desired, turn the air conditioning system on.
7. Press the AUTO button to convert to full automatic control of the system.

When starting the vehicle in cold weather a more efficient way to heat the passenger compartment is to do the following.

- Turn off or lower the blower, right after starting the engine.
  - Engine temperature is still low and the air flow from the heater is still cold.
- After a few minutes of engine warm up, turn on or set the fan to a higher level and adjust the temperature setting to hot.

Mode selection (11)



OFE048302

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

The air flow outlet direction is cycled as follows:



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, C, D, E, F)

Air flow is directed towards the face and the floor.

Floor & Defrost (A, C, D, E, F)

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

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

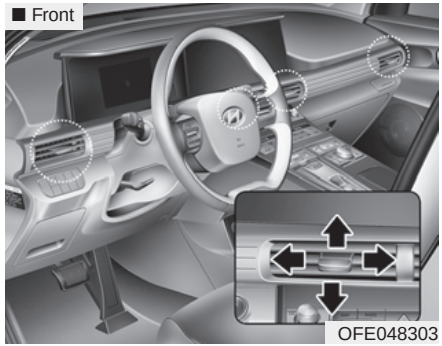
Most of the air flow is directed to the floor, with a small amount of the air being directed to the windshield and side window defrosters.

Defrost-Level (4) (A, D)

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

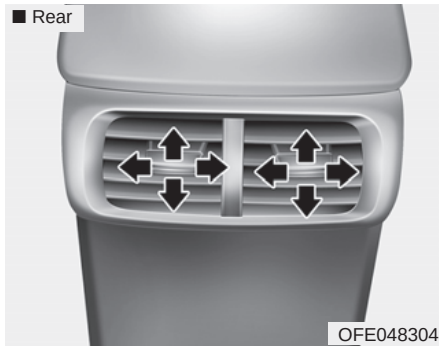
Instrument panel vents

■ Front



OFE048303

■ Rear



OFE048304

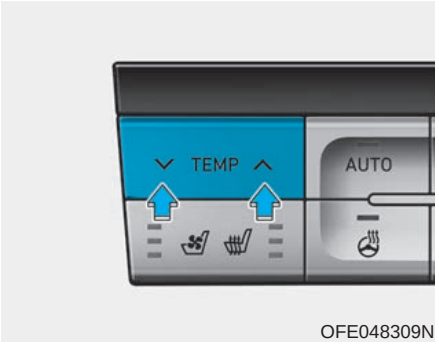
The instrument panel vent air flow can be directed up/down or left/right using the vent adjustment lever.

The air flow can also be CLOSED using the vent adjustment lever. The instrument panel air vents are the "click-to-close" type.

To CLOSE the instrument panel vents perform the following:

- For the driver side vents, slide the vent adjustment lever to the LEFT until it clicks.
- For the passenger side vents, slide the vent adjustment lever to the LEFT until it clicks.

Temperature control (1,2)



OFE048309N

Press the up/down switch to increase/ decrease the temperature.



OFE048310N

Adjusting the driver and passenger side temperature equally

- Press the "SYNC" button to operate the driver and passenger side temperature equally.

  The passenger side temperature will be set to the same temperature as the driver side temperature.
- Push the driver side temperature control switch. The driver and passenger side temperature will be adjusted equally.

Adjusting the driver and passenger side temperature individually

Press the "SYNC" button again to operate the driver and passenger side temperature individually. The button indicator will turn off.

Temperature conversion

If the battery has been discharged or disconnected, the temperature mode display will reset to Fahrenheit.

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

- Press the AUTO button while pressing the OFF button on the climate control unit for 3 seconds.
- Go to General settings mode → Unit → Temperature in the AVN display.

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

Air intake control (8)

The air intake control button 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.

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 A/C ON can cause fogging of the windshield.

In addition, prolonged use of the A/C 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 A/C 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 (5)

The fan speed can be set as desired by pushing the fan speed control button.

More air is delivered with higher fan speeds.

Pressing the OFF button turns off the fan.

NOTICE

Operating the fan when the POWER button is in the ON position could cause the battery to discharge. Operate the blower when the vehicle is in the ready ( ) mode.

NOTICE

Operating the fan when POWER button is in the ON position could cause the battery to discharge. Operate the fan when the vehicle is in the ready ( ) mode.

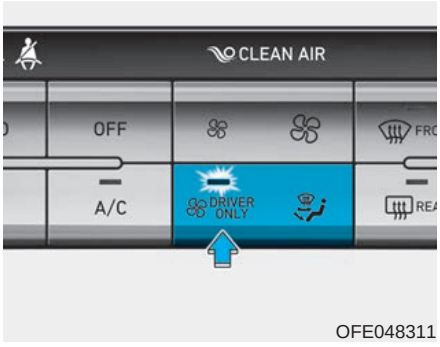
Air conditioning (12)

Push the A/C button to manually turn the system on (indicator light will illuminate) and off.

OFF mode (6)

Push the OFF button to turn the climate control system off. You can still operate the mode and air intake buttons.

Driver only



OFE048311

If you press the DRIVER ONLY button(DRIVER ONLY) and the indicator light illuminates, cold air mostly blows in the direction of the driver's seating position. However, some of the cold air may be vented out of other seating position ducts to keep indoor air pleasant.

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

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

1) Defrost on (the DRIVER ONLY button indicator is not turned off)
2) DRIVER ONLY button re-push

System Operation

Cooling / Ventilation

1. Select the Face Level mode.
2. Set the air intake control to fresh mode.
3. Set the temperature control to the desired position.
4. Set the fan speed control to the desired speed.

Heating

1. Select the Floor Level mode.
2. Set the air intake control to fresh mode.
3. Set the temperature control to the desired position.
4. Set the fan speed control to the desired speed.
5. If desired, turn the air conditioning ON with the temperature control knob set to heat in order to dehumidify the air before it enters into the cabin.

If the windshield fogs up, select the Floor & Defrost mode or press the Front Defrost mode.

Operation Tips

- If dust or unpleasant fumes are entering the car through the ventilation system, temporarily set the air intake control to the recirculation mode. Return the control 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-1234yf refrigerant.

1. Start the vehicle.
2. Press the air conditioning button.
3. Select the Face Level mode.
4. Set the air intake control to Recirculation mode temporarily to allow the cabin to cool quickly. When the desired temperature in the cabin is reached, change the air intake control back to Fresh mode.
5. Adjust the fan speed control and temperature control to maintain maximum comfort.

When maximum cooling is desired, set the temperature control to the MAX A/C position, then set the fan speed control to the highest setting.

NOTICE

When using the air conditioning system, monitor the temperature gauge closely while driving up hills or in heavy traffic when outside temperatures. Air conditioning system operation when climbing a steep grade or in high outside ambient temperatures can cause fuel cell stack overheating.

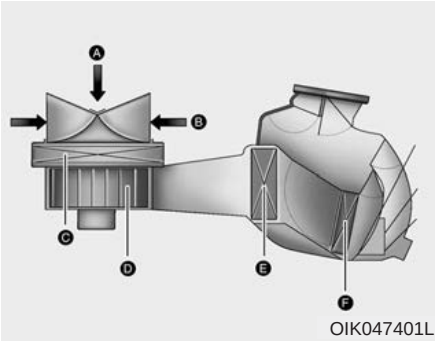
Continue to use the fan, but turn the air conditioning system off if the temperature gauge indicates fuel cell stack overheating.

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 sunroof 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 knob or button to the position and fan speed control to the lower speed.

System Maintenance

Cabin air filter



OIK047401L

[A] : Outside air, [B] : Recirculated air
[C] : Climate control air filter, [D] : Blower
[E] : Evaporator core, [F] : Heater core

The cabin air filter is installed behind the glove box. It filters the dust or other pollutants that enter the vehicle through the heating and air conditioning system.

Have the The cabin air filter replaced by an authorized HYUNDAI dealer according to the maintenance schedule.

If the vehicle is being driven in severe conditions such as dusty or rough roads and/or if transporting pets or occupants smoke inside the vehicle, then more frequent cabin air filter inspections and changes are required.

If the air flow rate suddenly decreases, the system should be checked 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-1234yf

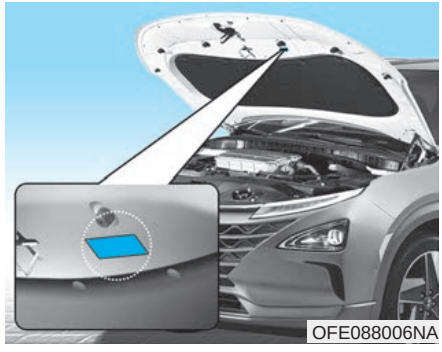




Since the refrigerant is mildly flammable and operated at high pressure, the air conditioning system should only be serviced by trained and certified technicians. It is important that the correct type and amount of oil and refrigerant are used.

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.



OFE088006NA

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



OHYK059002

Each symbols 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

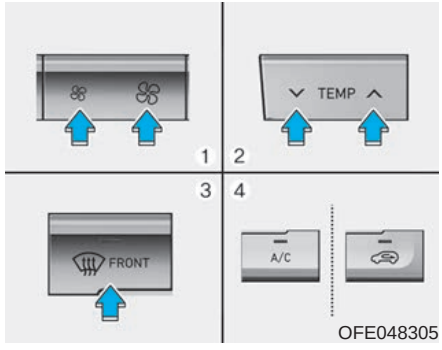
⚠ WARNING

Windshield heating

Do not use the or 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 knob or button to the position and fan speed control knob or button 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, side view 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.

Automatic Temperature Control System

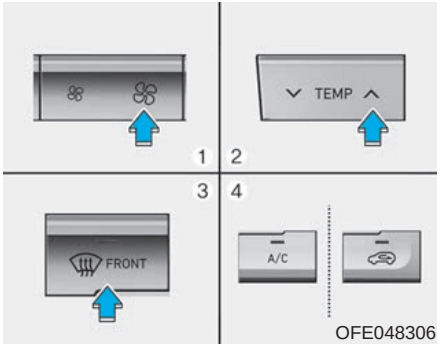


To defog inside windshield

1. Select the desired fan speed.
2. Select the desired temperature.
3. Press the defroster button ( ).
4. Fresh mode will be selected automatically.

Check to make sure the air intake control is in Fresh mode. If the air intake control LED is illuminated, press the button once to enable Fresh mode (LED OFF).

If the position is selected, the fan speed is automatically increased.



To defrost outside windshield

1. Set the fan speed to the highest (extreme right) position.
2. Set the temperature to the extreme hot (HI) position.
3. Press the defroster button ( ).
4. The outside (fresh) air position will be selected automatically.

If the position is selected, fan speed may increase slightly to improve airflow.

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 or positions. To cancel or reset the defogging logic, do the following.

Automatic climate control system

1. Turn the POWER button to the ON position.
2. Press the defroster button ( ).
3. While pressing the air conditioning button (A/C), press the air intake control button at least 5 times within 3 seconds.

The Automatic Temperature Control information screen will blink 3 times to indicate that the defogging logic has been disabled.

Repeat the steps again to re-enable the defogging logic.

If the battery has been discharged or negative (-) battery cable is disconnected, it resets to the defog logic status.

Auto Defogging System (Additional Feature with Automatic Temperature Control System) (if equipped)

Auto defogging helps reduce the possibility of fogging up the inside of the windshield by automatically sensing the moisture on inside the windshield.

The auto defogging system operates when the heater or air conditioning is on.

Information

The auto defogging system may not operate normally, when the outside temperature is below 14 °F (-10 °C).



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:

Step 1) The A/C button will turn ON.

Step 2) The air intake control will change to Fresh mode.

Step 3) The mode will be changed to defrost to direct airflow to the windshield.

Step 4) The fan speed will be set to MAX.

If the air conditioning is off or recirculated air position is manually selected while Auto Defogging System is ON, the Auto Defogging System Indicator will blink 3 times to signal that the manual operation has been canceled.

To cancel or reset the Auto Defogging System

Press the front windshield defroster button for 3 seconds when the POWER button is in the ON position. When the Auto Defogging System is canceled, 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 reset, the ADS OFF symbol will blink 6 times without a signal.

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 the Auto Defogging System is operating, the fan speed adjustment button, the temperature adjustment knob, and the air intake control button 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.

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.

If you want to defrost and defog the front windshield, refer to the "Windshield Defrosting and Defogging" section in this chapter.



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 in the ready ( ) mode.

- To activate the rear window defroster, press the rear window defroster button located in the center control panel. The indicator on the rear window defroster button illuminates when the defroster is ON.
- To turn off the defroster, press the rear window defroster button again.

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 POWER button is in the OFF position.**

Side view mirror defroster

If your vehicle is equipped with the side view mirror defrosters, they will operate at the same time you turn on the rear window defroster.

CLIMATE CONTROL ADDITIONAL FEATURES

Automatic Ventilation (if equipped)

When the POWER button is in the ON position or when the vehicle is in the ready ( ) mode and temperature is below 59°F (15°C) with the recirculated air position selected more than five minutes, the air intake position will automatically change to the outside (fresh) air position.

To cancel or reset the Automatic Ventilation

When the air conditioning system is on, select Face Level mode and press the recirculation mode button five times within three seconds while pressing A/C button.

When the Automatic Ventilation feature is enabled, the recirculation button LED indicator will blink 6 times.

When the Automatic Ventilation feature is disabled, the recirculation button LED indicator will blink 3 times.

Sunroof Inside Air Recirculation (if equipped)

When the heater or air conditioning system is on with the sunroof opened, the fresh mode will be automatically selected. If you press the recirculation mode button with the sunroof open, recirculation mode activate but will only remain enabled for 3 minutes. After 3 minutes the air intake control will revert back to Fresh mode.

When the sunroof is closed, the air intake position will return to the original position that was selected.

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

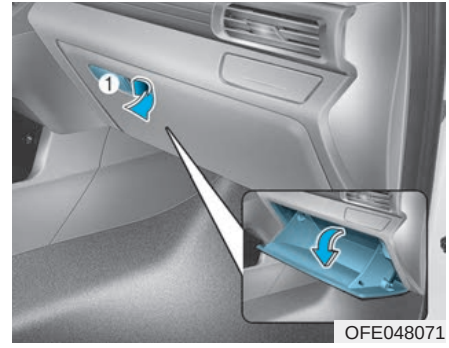


OFE048070

To open :

Grab and hold the latch (1) on the arm rest then lift the lid.

Glove Box



OFE048071

To open:

Pull the lever (1).

⚠ WARNING

ALWAYS close the glove box door after use.

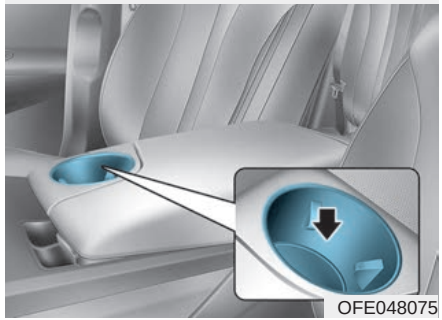
An open glove box door can cause serious injury to the passenger in an accident, even if the passenger is wearing a seat belt.

INTERIOR FEATURES

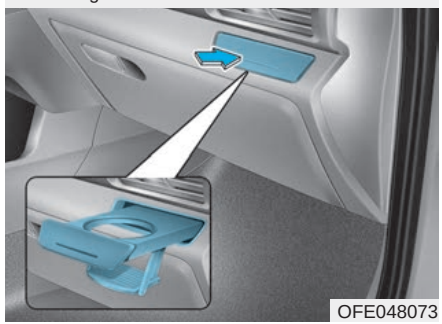
Cup Holder

Front

■ On center console



■ Above glove box

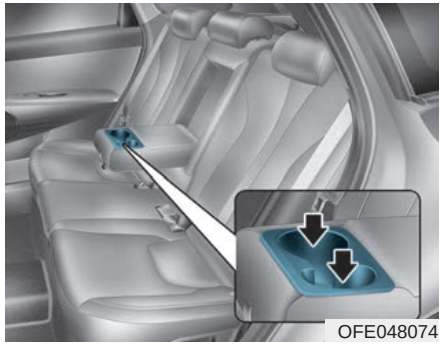


Cups or small beverages cups may be placed in the cup holders.

⚠ WARNING

Placing any heavy objects other than cups or small beverages may damage the cup holder.

Rear



Pull the armrest down to use 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.**

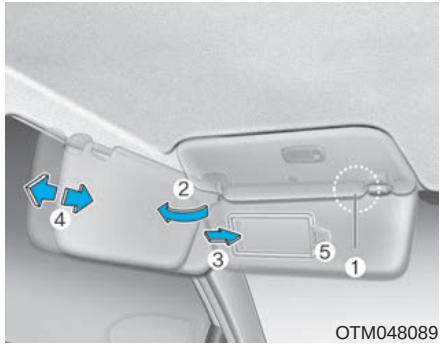
⚠ WARNING

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



OTM048089

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 towards the window (2).

To use the vanity mirror, pull down the sunvisor and slide the mirror cover (3).

Adjust the sunvisor forward or backward (4) as needed. Use the ticket holder (5) to hold tickets.

Close the vanity mirror cover securely and return the sunvisor to its original position after use.

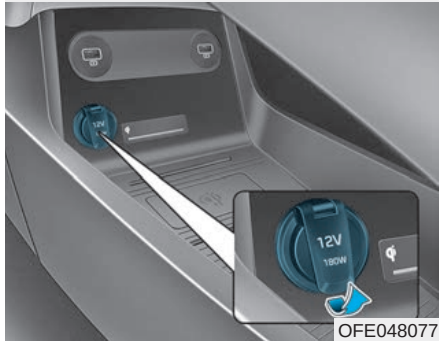
⚠ WARNING

For your safety, do not block your view when using the sunvisor.

NOTICE

Do not put several tickets in the ticket holder at one time. This could cause damage to the ticket holder.

Power Outlet



OFE048077

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 W with the vehicle in the ready ( ) mode.

⚠ 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 :

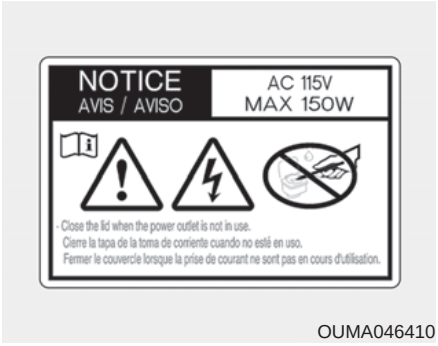
- **Use the power outlet only when the vehicle is in the ready ( ) mode and remove the accessory plug after use. Using the accessory plug for prolonged periods of time with the vehicle off could cause the battery to discharge.**
- **Only use 12V electric accessories which are less than 180 W in electric 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.**

AC Inverter (if equipped)


OFE048080N

The AC inverter supplies 115V/150W electric power to operate electric accessories or equipments.



OUMA046410

Information

- **Rated voltage : AC 115V**
- **Maximum electric power : 150W**
- **In order to avoid an electrical system failure, electric shock, etc., be sure to read owner's manual before use.**
- **Be sure to close the cover except the time of use.**

⚠ WARNING

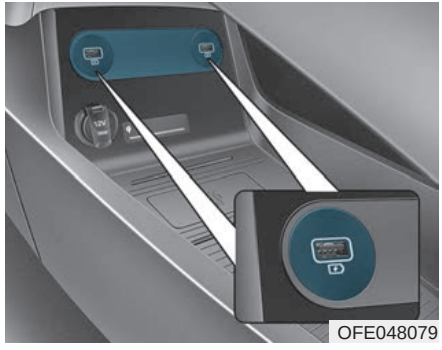
To reduce a risk of serious or fatal injuries:

- **Do not use a heated electric device such as a coffeepot, toaster, heater, iron, etc.**
- **Do not insert foreign objects into the outlet and do not touch the outlet as you may get shocked.**
- **Do not let children touch the AC inverter.**

NOTICE

- **To prevent the battery from being discharged, do not use the AC inverter while the vehicle is not in the ready ( ) mode.**
- **When not using the AC inverter, make sure to close the AC inverter cover.**
- **After using an electric accessory or equipment, pull the plug out. Leaving the accessory or equipment plugged in for a long time may cause battery discharge.**
- **Do not use an electric accessory or equipment the power consumption of which is greater than 150W (115V).**
- **Some electric accessories or equipments can cause electronic interference. It may cause excessive audio noise and malfunctions in other electric systems or devices in the vehicle.**
- **Do not use broken electric accessories or equipments, which may damage the AC inverter and electrical systems of the vehicle.**
- **Do not use two or more electric accessories or equipments at the same time. It may cause damage to the electrical systems of the vehicle.**
- **When the input voltage is lower, outlet LED will blink and the AC inverter will turn off automatically. If the input voltage goes up to normal, the AC inverter will turn on again.**

USB Charger


OFE048079

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 POWER button is ON.

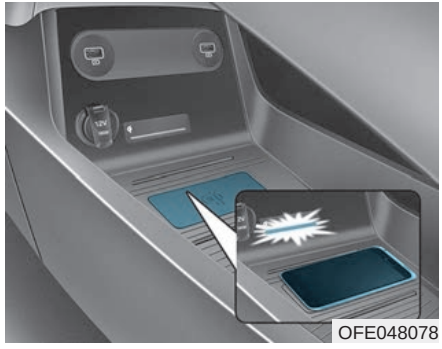
Insert the USB charger into the USB port, and re-charge a smart phone or a tablet PC.

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.

Wireless Cellular Phone Charging System


OFE048078

On certain models, the vehicle comes equipped with a wireless cellular phone charger.

The system is available when all doors are closed, and when the POWER button is ON.

To charge a cellular phone

The wireless cellular phone charging system charges only the Qi-enabled cellular phones ( ). Read the label on the cellular phone accessory cover or visit your cellular phone manufacturer's website to check whether your cellular phone supports the Qi technology.

The wireless charging process starts when you put a Qi-enabled cellular 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 cellular phone on the center of the charging pad ( ).
2. The indicator light is orange when the cellular phone is charging. The indicator light turns green when phone charging is complete.
3. You can turn ON or OFF the wireless charging function in the Vehicle Settings mode on the AVN screen. For further information, refer to the separately supplied "Navigation manual".

If your cellular phone is not charging:

- Slightly change the position of the cellular 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 cellular phone again.

The system warns you with a message on the LCD display if the cellular phone is still on the wireless charging unit after the POWER button is in the OFF position and the front door is opened.

Information

For some manufacturer's cellular phones, the system may not warn you even though the cellular phone is left on the wireless charging unit. This is due to the particular characteristic of the cellular phone and not a malfunction of the wireless charging.

NOTICE

- **The wireless cellular phone charging system may not support certain cellular phones, which are not verified for the Qi specification ( ).**
- **When placing your cellular phone on the charging mat, position the phone in the middle of the mat for optimal charging performance. If your cell phone is off to the side, the charging rate may be less and in some cases the cell 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 cellular phones, the charging indicator may not change to green when the cell phone is fully charged.**

- **The wireless charging process may temporarily stop, when temperature abnormally increases inside the wireless cellular phone charging system. Stop the charging cellular phone and wait until 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 cellular phone charging system and the cellular phone.**
- **When charging some cellular phones with a self-protection feature, the wireless charging speed may decrease and the wireless charging may stop.**
- **If the cellular phone has a thick cover, the wireless charging may not be possible.**
- **If the cell 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 cellular phone during the charging process.**
- **When any cellular 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 cellular phone in any way.**

Information

If the POWER button is in the OFF position, the charging also stops.

Information

This device complies with part 15 of the FCC Rules.

Operation is subject to the following two conditions:

1. **This device may not cause harmful interference, and**
2. **This device must accept any interference received, including interference that may cause undesired operation.**

Clock

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.

Select the Vehicle Settings menu on the AVN screen ➟ Select [Date/Time].

- GPS time: Displays time according to the received GNSS time.
- Daylight saving time : The clock is adjusted forward one hour.
- Time format : Switches to 12 hour or 24 hour.

For more details, refer to the separately supplied Navigation manual.

Coat Hook



These hangers 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 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 (e.g. 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 recommends that the HYUNDAI floor mat designed for use in your vehicle be installed.

Luggage Net Holder (if equipped)



OFE048082

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.

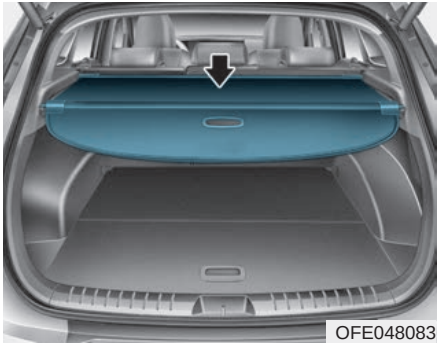
Make sure the luggage net is securely attached to the holders in the luggage board.

⚠ 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.

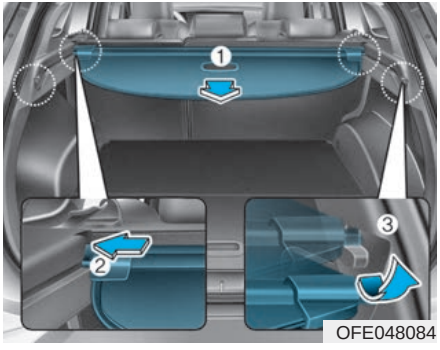
Use the luggage net to keep only light items from shifting in the luggage compartment.

Cargo Security Screen


OFE048083

Use the cargo security screen to cover items stored in the cargo area.

To use the cargo security screen



OFE048084

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 backward and up to release it from the guides.
2. The cargo security screen will automatically slide back in.

Information

The cargo security screen may not automatically slide back in if the cargo security screen is not fully pulled out. Pull the cargo screen out all the way and then slowly allow the screen to retract back into the mechanism.

To remove the cargo security screen


OFE048085

1. Push one side of the cargo screen inward to compress the spring mechanism and release the screen from the vehicle.
2. While the mechanism is compressed, pull out the cargo security screen.

⚠ 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.**

EXTERIOR FEATURES

Roof Side Rails (if equipped)


OFE048086

If your vehicle comes equipped with roof side rails, then roof rack crossbars can be installed on top of your vehicle.

The roof rack crossbars are an accessory and are available at your local HYUNDAI dealer.

NOTICE

If the vehicle is equipped with a sunroof, be sure not to position cargo onto the roof rack in such a way that it could interfere with sunroof operation.

NOTICE

- **When carrying cargo on the roof rack, take the necessary precautions to make sure the cargo does not damage the roof of the vehicle.**
- **When carrying large objects on the roof rack, make sure they do not exceed the overall roof length or width.**

⚠ WARNING

- **The following specification is the maximum weight that can be loaded onto the roof rack. Distribute the load as evenly as possible onto the roof rack and secure the load firmly.**

  Loading cargo or luggage in excess of the specified weight limit on the roof rack may damage your vehicle.

ROOF RACK	220 lbs. (100kg) EVENLY DISTRIBUTED

- **The vehicle center of gravity will be higher when items are loaded onto the roof rack. Avoid sudden starts, braking, sharp turns, abrupt maneuvers or high speeds that may result in loss of vehicle control or rollover resulting in an accident.**
- **Always drive slowly and turn corners carefully when carrying items on the roof rack. Severe wind updrafts, caused by passing vehicles or natural causes, can cause sudden upward pressure on items loaded on the roof rack. This is especially true when carrying large, flat items such as wood panels or mattresses. This could cause the items to fall off the roof rack and cause damage to your vehicle or others around you.**
- **To prevent damage or loss of cargo while driving, check frequently before or while driving to make sure the items on the roof rack are securely fastened.**

Infotainment System

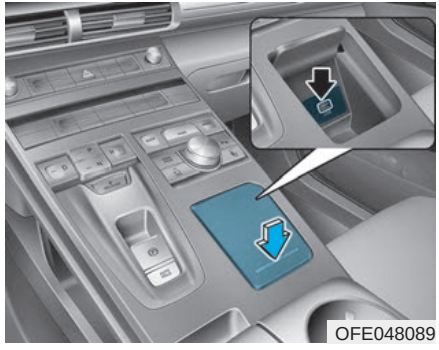
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INFOTAINMENT SYSTEM

Information

- **If you install an aftermarket HID headlamp, your vehicle's audio and electronic devices may malfunction.**
- **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 and iPod® port



You can use an USB port to plug in an USB and an iPod® port.

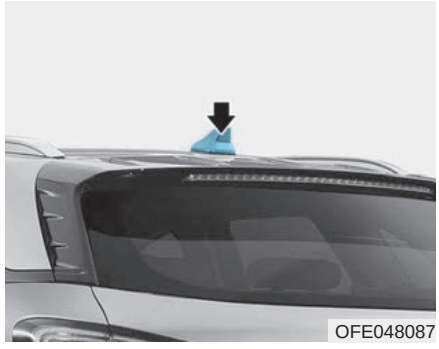
Information

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.

❊ iPod® is a trademark of Apple Inc.

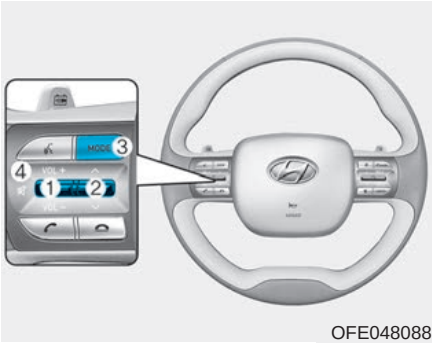
Antenna

Shark fin antenna



The shark fin antenna will receive the AM, FM broadcast signals, SXM, LTE and transmit data.

Steering Wheel Audio Control



OFE048088

NOTICE

Do not operate multiple audio remote control buttons simultaneously.

VOLUME (VOL + / -) (1)

- Press the VOLUME (+) switch up to increase volume.
- Press the VOLUME (-) switch down to decrease volume.

SEEK/PRESET (∧ / ∨) (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, SXM, or Media mode.

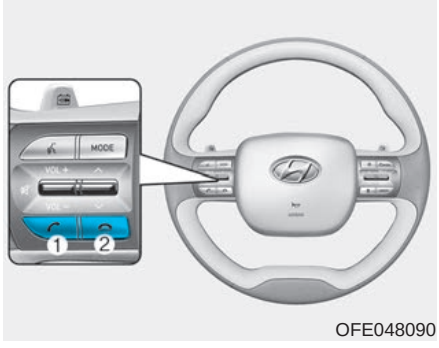
MUTE ( ) (4)

- Press the MUTE button to mute the sound.
- Press the MUTE button again to activate the sound.

Information

Detailed information for audio control buttons are described in the separately supplied manual with the vehicle.

Bluetooth® Wireless Technology



OFE048090



OFE048026N

(1) Call / Answer button
(2) Call end button
(3) Microphone

Detailed information for the Bluetooth hands-free is described in a separately supplied manual with the vehicle.

Blue Link® center



OFE048476N

For details, refer to the Blue Link® Owner's Guide, Navigation Manual or Audio Manual.

Audio / Video / Navigation system (AVN)

Detailed information for the AVN system is described in a separately supplied manual with the vehicle.

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⚠ WARNING

Keep the air intakes clear.

To assure proper operation of the ventilation system, keep the ventilation air intakes located in front of the windshield clear of snow, ice, leaves, or other obstructions.

If you must drive with the liftgate open:

Close all windows.

Open instrument panel air vents.

Set the air intake control at "Fresh", the air flow control at "Floor" or "Face", and the fan control set to high.

⚠ WARNING

CALIFORNIA PROPOSITION 65 WARNING

An wide variety of automobile components including components found in the interior furnishings in a vehicle, contain or emit harmful chemicals known to the State of California to cause cancer and birth defects and reproductive harm. In addition, certain fluids contained in vehicles and certain products of components contain or emit chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

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 liftgate, 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 seatbelt. Check that all passengers have fastened their seatbelts.
- Check the gauges and indicators in the instrument panel and the messages on the instrument display when the POWER button 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" in chapter 2.
- 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.

POWER BUTTON

⚠ WARNING

To reduce the risk of SERIOUS INJURY or DEATH, take the following precautions:

- **NEVER allow children or any person who is unfamiliar with the vehicle to touch the POWER button or related parts. Unexpected and sudden vehicle movement can occur.**
- **NEVER reach through the steering wheel for the POWER 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.**



Whenever the front door is opened, the POWER 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 POWER button for more than two seconds OR Rapidly press and release the POWER 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 POWER button with the gear in the N (Neutral) position.

⚠ WARNING

- **NEVER press the POWER 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 POWER button to the OFF position, and take the Smart Key with you. Unexpected vehicle movement may occur if these precautions are not followed.**

POWER Button Positions

Button Position	Action	Notice
OFF	To turn off the vehicle, press the POWER button with the gear in P (Park). Also, the vehicle will turn off when the POWER button is pressed with the gear in D (Drive) or R (Reverse) because the gear automatically shifts to the P (Park) position. But, when it is pressed in N (Neutral), the POWER button will go to the ACC position.	
ACC	Press the POWER button when the button is in the OFF position without depressing the brake pedal. Some electrical accessories are usable.	

Button Position	Action	Notice
ON	Press the POWER button while it is in the ACC position without depressing the brake pedal.	Do not leave the POWER button in the ON position when the vehicle is not in the ready ( ) mode to prevent the battery from discharging.
START	To start the vehicle, depress the brake pedal and press the POWER button with the gear in the P (Park) position.	If you press the POWER button without depressing the brake pedal, the vehicle does not start and the POWER button changes as follows: **OFF → ACC → ON → OFF or ACC**

Starting the Vehicle

⚠ WARNING

- **Always wear appropriate shoes when operating your vehicle. Unsuitable shoes, such as high heels, ski boots, sandals, flip-flops, 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 and lead to an accident.

Information

- **The vehicle will start by pressing the POWER 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 POWER button is in the ACC or ON position, 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 ( ) mode.**

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 POWER button. If the vehicle starts, the " " indicator will come on.

Information

- **Always start the vehicle with your foot on the brake pedal.**
- **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 " " indicator turns off while you are in motion, do not attempt to shift to the P (Park) position.

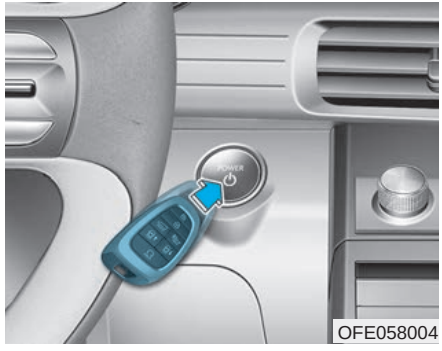
NOTICE

To prevent damage to the vehicle:

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 POWER button for 10 seconds with the POWER button in the ACC position.

Do not press the POWER button for more than 10 seconds except when the stop lamp fuse is blown.

For your safety always depress the brake pedal before starting the vehicle.



Information

If the smart key battery is weak or the smart key does not work correctly, you can start the vehicle by pressing the POWER button with the smart key in the direction of the picture above.

Turning Off the Vehicle

1. Depress the brake pedal fully.
2. Shift to P (Park).
3. Apply the parking brake.
4. Press the POWER button to turn the vehicle off.
5. Make sure the " " indicator light on the instrument cluster is turned off.

⚠ CAUTION

If the " " 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).

REDUCTION GEAR

Reduction Gear Operation

⚠ 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 gear is in the P (Park) position, then set the parking brake, and place the POWER button in the OFF position. Unexpected and sudden vehicle movement can occur if these precautions are not followed.**



OFE058005L

Select gear positions by pressing the shift button.

For your safety, always depress the brake pedal while shifting to another gear.

Gear position



OFE058006

The indicator in the instrument cluster displays the gear position when the POWER button is in the ON position.

P (Park)

Always come to a complete stop before shifting into P (Park).

To shift the gear from R (Reverse), N (Neutral) or D (Drive) to P (Park), press the [P] button.

If you turn off the vehicle in D (Drive) or R (Reverse), the gear automatically shifts 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 gear is in P (Park), apply the parking brake, and turn the vehicle off.**
- **Do not use the P (Park) position in place of the parking brake.**

R (Reverse)

Use this position to drive the vehicle backward.

To shift to R (Reverse), press the [R] button while depressing the brake pedal.

N (Neutral)

The wheels and gear are not engaged.

To shift to N (Neutral), press the [N] button while depressing the brake pedal.

Always depress the brake pedal when you are shifting from N (Neutral) to another gear.

In N (Neutral), if the driver attempts to turn off the vehicle, the gear remains in N (Neutral) and the POWER button will be in the ACC position.

To turn off the vehicle from the ACC position, press the [P] button within 3 minutes. The vehicle will shift to P (Park) and turn off.

When the driver's door is opened within 3 minutes with the POWER button in the ACC position and the gear in N (Neutral), the vehicle is automatically turned OFF and shifted to the P (Park) position.

D (Drive)

This is the normal driving position.

To shift to D (Drive), press the [D] button while depressing the brake pedal.

Shift-lock system

For your safety, your vehicle has a shift-lock system which prevents shifting the gear from P (Park) or N (Neutral) into R (Reverse) or D (Drive) unless the brake pedal is depressed.

To shift from P (Park) or N (Neutral) into R (Reverse) or D (Drive) :

1. Depress and hold the brake pedal.
2. Start the vehicle or place the POWER button in the ON position.
3. Press the R (Reverse) or D (Drive) button.

When the battery (12 V) is discharged

You cannot shift the gear when the battery is discharged.

Jump start your vehicle (refer to “Jump Starting” in chapter 6) or contact an authorized HYUNDAI dealer.

Parking

Always come to a complete stop and continue to depress the brake pedal. Shift to the P (Park) position, apply the parking brake, and place the POWER button in the OFF position. Take the Key with you when exiting the vehicle.

LCD Display Messages

Shifting conditions not met



OFE058128L

The message appears on the LCD display when driving speed is too fast to shift the gear.

Decrease the vehicle speed or slow down before shifting the gear.

Press brake pedal to change gear



OFE058129L

The message appears on the LCD display, 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



OFE058130L

The message appears on the LCD display when the gear is shifted to P (Park) while the vehicle is moving.

Stop the vehicle before shifting to P (Park).

Gear already selected



OFE058132L

The message appears on the LCD display when the selected gear button is pressed again.

Shift button held down



OFE058133L

The message appears on the LCD display when the shift button is continuously pressed or there is problem with the button.

Make sure that there is no object over the shift button. If the problem persists, immediately have the vehicle inspected by an authorized HYUNDAI dealer.

Check shift controls



OFE058134L

The message appears on the LCD display when there is problem with the shift buttons.

Immediately have the vehicle inspected by an authorized HYUNDAI dealer.

PARK malfunction. Engage parking brake when parking vehicle



OFE048438L

The message appears on the LCD display when there is problem with function engaging P (Park) position.

Immediately have the vehicle inspected by an authorized HYUNDAI dealer.

Good Driving Practices

- Never shift to P (Park) or N (Neutral) to any other position with the accelerator pedal depressed.
- Never shift to P (Park) when the vehicle is in motion.

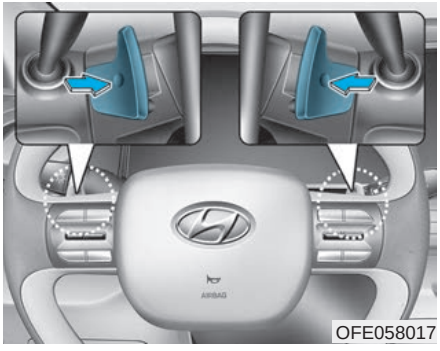
  Be sure the vehicle is completely stopped before you attempt to shift into R (Reverse) or D (Drive).
- Do not shift to N (Neutral) when driving. Doing so may result in an accident.
- Do not drive with your foot resting on the brake pedal. Even light, but consistent pedal pressure can result in the brakes overheating, brake wear and possibly even brake failure.
- Always apply the parking brake when leaving the vehicle. Do not depend on placing the 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 recommends you follow all posted speed limits.**
- **Driving uphill or downhill, always shift to D (Drive) when driving forward or to R (Reverse) when driving backwards, and check the gear position indicated on the cluster before driving. If you drive in the opposite direction of the selected gear, the vehicle will turn off and a serious accident might be occurred due to the degraded brake performance.**

PADDLE SHIFTER (REGENERATIVE BRAKING CONTROL)


OFE058017

The paddle shifter is used to adjust the regenerative braking rate from 0 to 3 during decelerating or braking.

- Left side ( ): Increases regenerative braking and deceleration.
- Right side ( ): Decreases regenerative braking and deceleration.
- Pull and hold the left side paddle shifter to change to 0.
- Pull and hold the left side paddle shifter to change to 3.

Information

The paddle shifter does not operate when:

- **Both Paddle shifters are pulled at the same time.**
- **The Smart Cruise Control system is activated.**
- **The vehicle is shifted to P (Park), R (Reverse) and N (Neutral).**

NOTICE

If the battery is fully charged when descending down a long or steep hill, the regenerative braking is not working even though operating the paddle shifter. In this case, depress the brake pedal to brake the vehicle. This is normal and does not indicate a problem with your paddle shifter and brakes.



OFE058136N

The selected regenerative braking rate is displayed on the instrument cluster.

What Does Regenerative Braking Do?

It uses the electric motor when decelerating or braking which transforms vehicle motion (kinetic energy) to electrical energy to charge the high voltage batteries.

BRAKING SYSTEM

Power Brakes

Your vehicle has power-assisted brakes that adjust automatically through normal usage.

If the power is not supplied such as battery discharge, the power assist for the brakes will not work. You can still stop your vehicle by applying greater force to the brake pedal than typical. The stopping distance, however, will be longer than with power brakes.

Do not pump the brake pedal when the power assist has been interrupted.

⚠ 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.**
- **When descending down a long or steep hill, use the paddle shifter (left side lever) to increase regenerative braking control in order to control 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 slow down; the vehicle may also pull to one side when the brakes are applied. Applying the brakes lightly will indicate whether they have been affected in this way. Always test your brakes in this fashion after driving through deep water. To dry the brakes, lightly tap the brake pedal to heat up the brakes while maintaining a safe forward speed until brake performance returns to normal. Avoid driving at high speeds until the brakes function correctly.**

NOTICE

- **Do not continue depressing the brake pedal if the " " 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 Brake 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.

Note that some driving conditions or climates may cause a brake squeal when you first apply (or lightly apply) the brakes. This is normal and does not indicate a problem with your brakes.

NOTICE

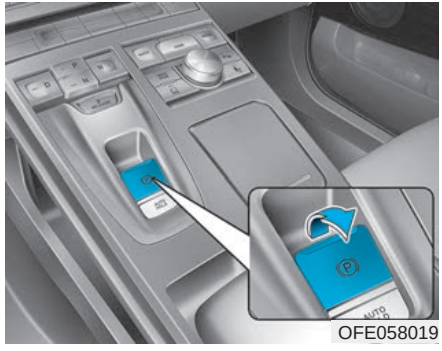
To avoid costly brake repairs, do not continue to drive with worn brake pads.

Information

Always replace brake pads as complete front or rear axle sets.

Electronic Parking Brake (EPB)

Applying the parking brake


OFE058019

To apply the EPB (Electronic Parking Brake):

1. Depress the brake pedal.
2. Pull the EPB switch upwards.

Make sure the Parking Brake Warning Light comes on.

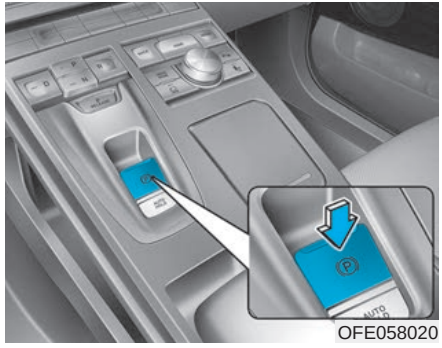
With the AUTO HOLD feature enabled, the EPB is automatically applied when the vehicle is shut off.

However, if the Auto Hold function is not activated, the EPB is not automatically applied even though the vehicle stops and turned off.

⚠ WARNING

To reduce the risk of SERIOUS INJURY or DEATH, do not operate the parking brake while the vehicle is moving except in an emergency situation. It could damage the brake system and lead to an accident.

Releasing the parking brake


OFE058020

To release the EPB (Electronic Parking Brake), press the EPB switch in the following condition:

- Have the POWER button in the ON position.
- Depress the brake pedal.

Make sure the Parking Brake Warning Light goes off.

To release EPB (Electronic Parking Brake) automatically:

- Shifted to P (Park)

  With the vehicle in the ready ( ) mode depress the brake pedal and shift out of P (Park) to R (Reverse), D (Drive).
- Shifted to N (Neutral)

  With the vehicle in the ready ( ) mode depress the brake pedal and shift out of N (Neutral) to R (Reverse) or D (Drive).
- Under the following conditions

  1. Start the vehicle.
  2. Fasten the driver's seat belt.
  3. Close the driver's door, hood and liftgate.
  4. Depress the accelerator pedal while the gear is in D (Drive) or R (Reverse).

The Parking Brake Warning Light should be turned off when the EPB is released.

Information

- **For your safety, you can engage the EPB even though the POWER button is in the OFF position, 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, have the system checked an authorized HYUNDAI dealer.**
- **Do not drive your vehicle with the EPB applied. It may cause excessive brake pad and brake rotor wear.**

EPB (Electronic Parking Brake) may be automatically applied when:

- Requested by other systems
- If the driver turns the vehicle off while Auto Hold is operating, EPB will be automatically applied.

Warning messages



OFE058137N

To release EPB, fasten seatbelt and close door, hood and liftgate

- If you try to drive with the EPB applied, a warning will sound and a message will appear.
- If the driver's seat belt is not fastened and the hood or liftgate 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

- **To prevent unintentional movement when stopped and leaving the vehicle, do not use the P (Park) position in place of the parking brake. Set the parking brake and make sure the vehicle is securely positioned in P (Park).**
- **Never allow anyone who is unfamiliar with the vehicle to touch the parking brake. If the parking brake is released unintentionally, serious injury may occur.**
- **All vehicles should always have the parking brake fully engaged when parking to avoid inadvertent movement of the car which can injure occupants or pedestrians.**

NOTICE

- **A click sound may be heard while operating or releasing the EPB, but these conditions are normal and indicate that the EPB is functioning properly.**
- **When leaving your keys with a parking lot attendant or valet, make sure to inform him/her how to operate the EPB.**
- **The EPB may malfunction if you drive with the EPB applied.**
- **When you automatically release EPB by depressing the accelerator pedal, depress it slowly.**



OFE058138L

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.

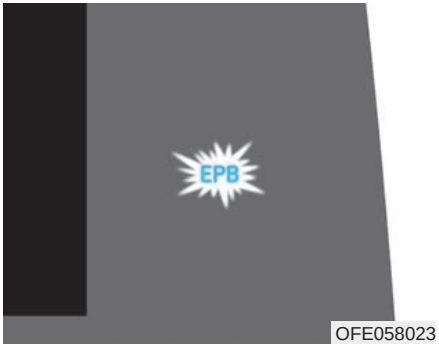


OFE058139L

Parking brake automatically engaged

If the EPB is applied while Auto Hold is activated, a warning will sound and a message will appear.

EPB malfunction indicator



OFE058023

This warning light illuminates if the POWER button is changed to the ON position and goes off in approximately 3 seconds if the system is operating normally.

If the EPB malfunction indicator remains on, comes on while driving, or does not come on when the POWER button is changed to the ON position, this indicates that the EPB may have malfunctioned.

If this occurs, have the system checked by an authorized HYUNDAI dealer.

The EPB malfunction indicator may illuminate when the ESC (Electronic Stability Control) indicator comes on to indicate that the ESC is not working properly, but it does not indicate a malfunction of the EPB.

NOTICE

- **If the EPB warning light is still on, 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, the EPB may not be applied.**
- **If the parking brake warning light blinks when the EPB warning light is on, press the switch, then pull it up. Once more press it back to its original position and pull it back up. If the EPB warning does not go off, have the system checked by an authorized HYUNDAI dealer.**

Parking brake warning light



Check the Parking Brake Warning Light by placing the POWER button to the ON position (do not start the vehicle).

This light will be illuminated when the parking brake is applied with the POWER button in the START or ON position.

Before driving, be sure the parking brake is released and the Brake Warning Light is OFF.

If the Parking Brake Warning Light remains on after the parking brake is released while the vehicle is in the ready ( ) mode, 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.

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.

⚠ WARNING

Do not operate the parking brake while the vehicle is moving except in an emergency situation.

Information

During emergency braking by the EPB, 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, have the system checked by an authorized HYUNDAI dealer.

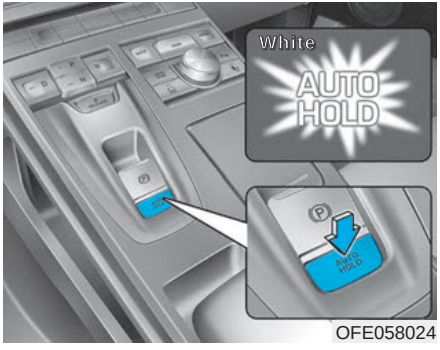
When the EPB (Electronic Parking Brake) does not release

If the EPB does not release normally, contact an authorized HYUNDAI dealer by loading the vehicle on a flatbed tow truck and have the system checked.

Auto Hold

The 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.

Set up



OFE058024

1. With the driver's door, liftgate 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.



OFE058025

2. When you stop the vehicle completely by depressing the brake pedal, the AUTO HOLD 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.

Leaving

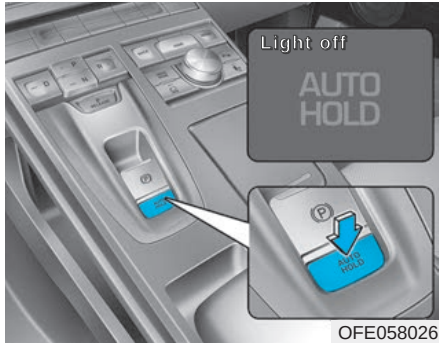
- If you press the accelerator pedal with the gear in D (Drive) or R (Reverse), the Auto Hold will be released automatically and the vehicle will start to move. The AUTO HOLD indicator changes from green to white.
- If the vehicle is restarted using the cruise control toggle switch (RES+ or SET-) while Auto Hold and cruise control is operating, the Auto Hold will be released regardless of accelerator pedal operation. The AUTO HOLD indicator changes from green to white. (if equipped with Smart Cruise Control system)

⚠ WARNING

When driving off from Auto Hold by depressing the accelerator pedal, always check the surrounding area near your vehicle.

Slowly depress the accelerator pedal for a smooth start.

Cancel



OFE058026

To cancel the Auto Hold operation, press the [AUTO HOLD] switch. The AUTO HOLD indicator will turn off.

To cancel the Auto Hold operation when the vehicle is at a standstill, press the [AUTO HOLD] switch while depressing the brake pedal.

i Information

- **The Auto Hold does not operate when:**
  - **Driver's door is opened**
  - **Liftgate is opened**
  - **Hood is opened**
  - **The gear is in P (Park)**
  - **The EPB is applied**
- **For your safety, the Auto Hold automatically switches to EPB in such cases:**
  - **Driver's door is opened**
  - **Liftgate is opened**
  - **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 sounds and a message will appear to inform you that EPB has been automatically engaged. Before driving again, depress the brake pedal, check the surrounding area near your vehicle and release the parking brake manually with the EPB switch.

- **If the AUTO HOLD indicator lights up yellow, the Auto Hold is not working properly. Contact an authorized HYUNDAI dealer.**
- **While operating Auto Hold, you may hear mechanical noise. However, it is normal operating noise.**

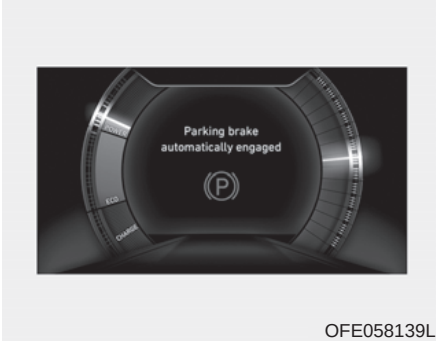
⚠ WARNING

- **Depress the accelerator pedal slowly when you start the vehicle.**
- **For your safety, cancel the 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, liftgate or hood open detection system, the Auto Hold may not work properly. Contact an authorized HYUNDAI dealer.

Warning messages



OFE058139L

Parking brake automatically engaged

When the EPB is applied from Auto Hold, a warning will sound and a message will appear.



OFE058138L

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.

Depress the brake pedal when the above message appears for the Auto Hold and EPB may not activate.



OFE058140L

Press brake pedal to deactivate AUTO HOLD

If you did not apply the brake pedal when you release the Auto Hold by pressing the [AUTO HOLD] switch, a warning will sound and a message will appear.



OFE058191N

AUTO HOLD conditions not met. Close door, Hood and liftgate

When you press the [AUTO HOLD] switch, if the driver's door, hood and liftgate are not closed, a warning will sound and a message will appear on the LCD display.

Press the [AUTO HOLD] switch after closing the driver's door, hood and liftgate.

Anti-lock Brake System (ABS)

⚠ WARNING

An Anti-Lock Braking System (ABS) or an 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 cars 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 an 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 warning light (ABS) will stay on for several seconds after the POWER button is in the ON position. During that time, the 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. Contact an authorized HYUNDAI dealer as soon as possible.

⚠ WARNING

If the ABS warning light (ABS) 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, contact your 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, the ABS will be active continuously and the ABS warning light (ABS) may illuminate. Pull your car over to a safe place and turn the vehicle off.

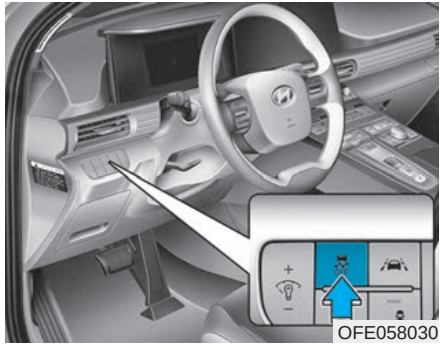
Restart the vehicle. If the ABS warning light is off, then your ABS system is normal.

Otherwise, you may have a problem with your ABS system. Contact an authorized HYUNDAI dealer as soon as possible.

i Information

When you jump start your vehicle because of a drained battery, the ABS warning light (ABS) 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)


OFE058030

The Electronic Stability Control (ESC) system 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 or too quickly when cornering. The ESC system 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 POWER button is in the ON position, the ESC and the ESC OFF indicator lights illuminate for approximately three seconds. After both lights go off, the ESC is enabled.

When operating

When the 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 the ESC activates, the vehicle may not respond to the accelerator as it does under routine conditions.
- If the Smart Cruise Control was in use when the ESC activates, the Smart Cruise Control automatically disengages. The Smart Cruise Control can be reengaged when the road conditions allow. **See "Smart cruise control with stop & go system" later in this chapter.**

ESC OFF condition

To cancel ESC operation :

- State 1



OFE058142N

Press the ESC OFF button briefly. The ESC OFF indicator light and message "Traction Control disabled" will illuminate. In this state, the traction control function of ESC is disabled, but the brake control function of ESC still operates.

- State 2



OFE058143N

Press and hold the ESC OFF button continuously for more than 3 seconds. The ESC OFF indicator light and message "Traction & Stability Control disabled" illuminates and a warning chime sounds. In this state, both the traction control function of ESC and the brake control function of ESC are disabled.

If the POWER button is placed to the OFF position when ESC is off, ESC remains off. Upon restarting the vehicle, the ESC will automatically turn on again.

Indicator lights

■ ESC indicator light (blinks)



■ ESC OFF indicator light (comes on)



When the POWER 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 the 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, have the vehicle checked by an authorized HYUNDAI dealer as soon as possible.

The ESC OFF indicator light comes on when the ESC is turned off with the button.

⚠ WARNING

When the ESC is blinking, this indicates the ESC is active:

Drive slowly and NEVER attempt to accelerate. NEVER turn the 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 the ESC, to maintain wheel torque.

To turn ESC off while driving, press the ESC OFF button while driving on a flat road surface.

NOTICE

- **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 vehicle power and do not spin the wheel(s) excessively while these lights are displayed.**
- **When operating the vehicle on a dynamometer, make sure the ESC is turned off (ESC OFF light illuminated).**

Information

Turning the ESC off does not affect ABS or standard brake system operation.

Vehicle Stability Management (VSM)

The Vehicle Stability Management (VSM) is a function of the Electronic Stability Control (ESC) system. It helps ensure the vehicle stays 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 the Vehicle Stability Management (VSM):

- **ALWAYS check the speed and the distance to the vehicle ahead. The VSM is not a substitute for safe driving practices.**
- **Never drive too fast for the road conditions. The VSM system will not prevent accidents. Excessive speed in bad weather, slippery and uneven roads can result in severe accidents.**

VSM operation

VSM ON condition

The VSM operates when:

- The Electronic Stability Control (ESC) is on.
- Vehicle speed is approximately above 9 mph (15 km/h) on curve roads.
- Vehicle speed is approximately above 18 mph (30 km/h) when the vehicle is braking on rough roads.

When operating

When you apply your brakes under conditions which may activate the 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

The VSM does not operate when:

- **Driving on a banked road such as a 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 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 indicator light ( ) or EPS warning light ( ) stays on or blinks, your vehicle may have a malfunction with the VSM system. When the warning light illuminates, have the vehicle 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)

The Hill-Start Assist Control (HAC) 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 5 seconds and releases the brake after 5 seconds or when the accelerator pedal is depressed.

⚠ WARNING

Always be ready to depress the accelerator pedal when starting off on a incline. The HAC activates only for approximately 5 seconds.

i Information

- **The HAC does not operate when the gear is in P (Park) or N (Neutral).**
- **The HAC activates even when the ESC (Electronic Stability Control) is off. However, it does not activate, when the ESC does not operate normally.**

Good Braking Practices

⚠ WARNING

Whenever leaving the vehicle or parking, always come to a complete stop and continue to depress the brake pedal. Shift to the P (Park) position, then apply the parking brake, and place the POWER button in 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.

Wet brakes can be dangerous! The brakes may get wet if the vehicle is driven through standing water or if it is washed. Your vehicle will not stop as quickly if the brakes are wet. Wet brakes may cause the vehicle to pull to one side.

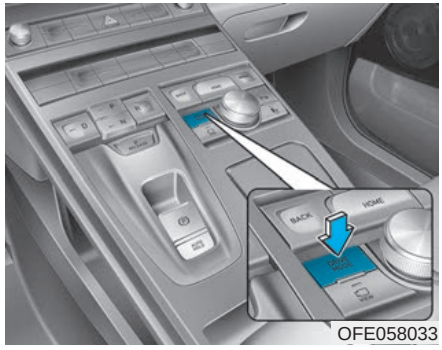
To dry the brakes, apply the brakes lightly until the braking action returns to normal. If the braking action does not return to normal, stop as soon as it is safe to do so and call an authorized HYUNDAI dealer for assistance.

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 (IF EQUIPPED)



OFE058033

The drive mode may be selected according to the driver's preference or road condition.

The system resets to be in the NORMAL mode (except if it is in ECO mode), when the vehicle is restarted.

Information

If there is a problem with the instrument cluster, the drive mode will be in NORMAL mode and may not change to ECO mode.

The mode changes, as below, whenever the DRIVE MODE button is pressed.

NORMAL ⟷ ECO

- Press and hold the DRIVE MODE button to select ECO+ mode.

ECO mode

ECO mode improves battery charge use efficiency for eco-friendly driving.

- When ECO mode is selected by pressing the DRIVE MODE button, the ECO indicator (green color) will illuminate.
- If the vehicle is set to ECO mode, when the vehicle is turned OFF and restarted the Drive Mode setting will remain in ECO mode.

Information

Battery charge use efficiency depends on the driver's driving habit and road condition.

When ECO mode is activated:

- The acceleration response may be slightly reduced as 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 improve fuel efficiency.

ECO+ mode

ECO+ mode improves fuel efficiency with ultra power saving driving mode.

- When ECO+ mode is selected by pressing and holding the DRIVE MODE button, the ECO+ indicator will illuminate.
- Distance to empty may not change when the air conditioner/heater system is off. However, actual distance may be extended.
- Air conditioner/heater system turns off (except the defroster) but you may turn it on if necessary.
- When the drive mode is switched from the ECO+ mode to a different mode, it is changed to air conditioner/heater operation status of the ECO mode.
- Whenever the vehicle is restarted, the Drive Mode will reverse back to NORMAL mode.
- If ECO + mode is activated, the maximum vehicle speed is limited below 60 mph (100 km/h).

Drive mode change alert

The driver can select the Drive mode change alert on the AVN screen.

Go to "Vehicle settings → Drive mode → Drive mode change alert".

The information, which will be shown whenever the drive mode is changed.

[Detailed alert] : A change of the drive mode is shown by an image of the vehicle.

[Simple alert] : A change of the drive mode is indicated by a short message on top of the screen.

[No alert] : A change of the drive mode is not indicated.

ECO mode climate control

ECO Mode Climate Control helps extend driving range by reducing the heating and cooling power of the climate control.

The driver can activate/deactivate the system on the AVN screen.

Go to "Vehicle settings → Drive mode → Eco mode climate control".

FORWARD COLLISION-AVOIDANCE ASSIST (FCA) SYSTEM

The Forward Collision-Avoidance Assist (FCA) system is designed to help detect and monitor the vehicle ahead or detect a pedestrian or cyclists in the roadway through radar signals and camera recognition to warn the driver that a collision is imminent, and if necessary, apply emergency braking.

⚠ WARNING

Take the following precautions when using the Forward Collision-Avoidance Assist (FCA) system:

- **This system is only a supplemental system and it is not intended to, nor does it replace the need for extreme care and attention of the driver. The sensing range and objects detectable by the sensors are limited. Pay attention to the road conditions at all times.**
- **NEVER drive too fast in accordance with the road conditions or while cornering.**
- **Always drive cautiously to prevent accidents from any unexpected and sudden situations. The Forward Collision-Avoidance system may not always stop the vehicle completely and is only intended to help mitigate a collision that is imminent.**

System Setting and Activation

System setting

- The driver can activate the FCA by placing the power button to the ON position and by selecting on the AVN screen :

  "Vehicle settings → Driver assistance → Forward safety"

  - If you select "Active assistance", the FCA system activates. The FCA produces warning messages and warning alarms in accordance with the collision risk levels. Also, it controls the brakes in accordance with the collision risk levels.
  - If you select "Warning Only", the FCA system activates and produces only warning alarms in accordance with the collision risk levels. You should control the brake directly because the FCA system do not control the brake.
  - If you select "Off", the FCA system deactivates,

-  The warning light illuminates on the LCD display, when you cancel the FCA system. The driver can monitor the FCA ON/OFF status on the AVN screen. Also, the warning light illuminates when the ESC (Electronic Stability Control) is turned off. If the warning light remains ON when the FCA is activated, have the system checked by an authorized HYUNDAI dealer.
- The driver can select the initial warning activation time on the AVN screen.

  Go to the "Vehicle settings →Driver assistance → Warning time → Normal/Later"

The options for the initial Forward Collision Warning includes the following:

- Normal :

  When this condition is selected, the initial Forward Collision Warning is activated sensitively. If you feel the warning activates too early, set the Forward Collision Warning to 'Later'.

  Even though, 'Normal' is selected if the front vehicle suddenly stops the initial warning activation time may not seem fast.
- Later :

  When this condition is selected, the initial Forward Collision Warning is activated later than normal. This setting reduces the amount of distance between the vehicle, pedestrian or cyclists ahead before the initial warning occurs.

  Select 'Later' when traffic is light and when driving speed is slow.

Information

If you change the warning timing, the warning time of other systems may change. Always be aware before changing the warning timing.

Prerequisite for activation

The FCA system is on and ready when FCA is selected on the AVN vehicle settings and when the following prerequisites are satisfied:

- The ESC (Electronic Stability Control) is on.
- Driving speed exceeds approximately 5 mph (8 km/h) (The FCA is only activated within a certain speed range.).
- The system detects a pedestrian, cyclists or a vehicle in front, which may collide with your vehicle. (The FCA may not be activated or may sound a warning alarm in accordance with the driving situation or vehicle condition.)

  If you select "Warning only", the FCA system activates and produces only warning alarms in accordance with the collision risk levels.

❈ The FCA may not operate properly according to the frontal situation, the direction of pedestrian or cyclist and speed.

⚠ WARNING

- **Completely stop the vehicle on a safe location before operating the switch on the steering wheel to activate/deactivate the FCA system.**
- **The FCA automatically activates upon placing the POWER button to the ON position. The driver can deactivate the FCA by canceling the system setting on the AVN screen.**
- **The FCA automatically deactivates upon canceling the ESC (Electronic Stability Control). When the ESC is canceled, the FCA cannot be activated on the AVN screen. The FCA warning light will illuminate which is normal.**

FCA Warning Message and System Control

The FCA produces warning messages and warning alarms in accordance with the collision risk levels, such as abrupt stopping of the vehicle in front, insufficient braking distance, or pedestrian or cyclists detection. Also, it controls the brakes in accordance with the collision risk levels.

The driver can select the initial warning activation time in the Vehicle settings in the AVN screen. The options for the initial Forward Collision Warning include Early or Later initial warning time.

Collision Warning (First warning)



OFE058144L

This warning message appears on the LCD display with a warning chime. Additionally, some vehicle system intervention occurs by the driving management system to help decelerate the vehicle.

- Your vehicle speed may decelerate moderately.
- The FCA system limitedly controls the brakes to preemptively mitigate impact in a collision.
- If you select "Warning Only", the FCA system activates and produces only warning alarms in accordance with the collision risk levels. You should control the brake directly because the FCA system do not control the brake.

Emergency Braking (Second warning)



OFE058145L

This warning message appears on the LCD display with a warning chime.

Additionally, some vehicle system intervention occurs by the driving management system to help decelerate the vehicle.

- The FCA system limitedly controls the brakes to preemptively mitigate impact in a collision. The brake control is maximized just before a collision.

- If you select "Warning Only", the FCA system activates and produces only warning alarms in accordance with the collision risk levels. You should control the brake directly because the FCA system do not control the brake.

Brake operation

- In an urgent situation, the braking system enters into the ready status for prompt reaction against the driver's depressing the brake pedal.
- The FCA provides additional braking power for optimum braking performance, when the driver depresses the brake pedal.
- The braking control is automatically deactivated, when the driver sharply depresses the accelerator pedal, or when the driver abruptly operates the steering wheel.
- The FCA braking control is automatically canceled, when risk factors disappear.

⚠ CAUTION

- **The driver should always use extreme caution while operating the vehicle, whether or not there is a warning message or alarm from the FCA system.**
- **If any other warning sound such as seat belt warning chime is already generated, the Forward Collision-Avoidance Assist (FCA) system warning may not sound.**

⚠ WARNING

The FCA braking control cannot completely stop the vehicle nor avoid all collisions. The driver should hold the responsibility to safely drive and control the vehicle.

⚠ WARNING

The FCA system logic operates within certain parameters, such as the distance from the vehicle, pedestrian or cyclists ahead, the speed of the vehicle ahead, and the driver's vehicle speed. Certain conditions such as inclement weather and road conditions may affect the operation of the FCA system.

⚠ WARNING

Never deliberately drive dangerously to activate the system.

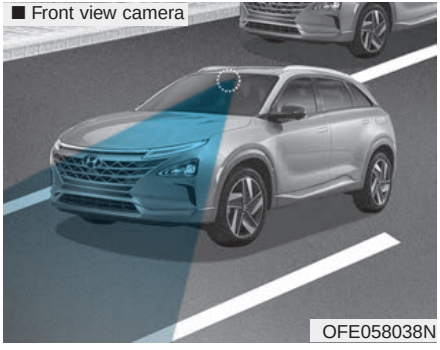
FCA Sensor (Front Radar/ Front View Camera)

■ Front radar



OFE058106N

■ Front view camera



OFE058038N

In order for the FCA system to operate properly, always make sure the sensor cover or sensor is clean and free of dirt, snow, and debris.

Dirt, snow, or foreign substances on the sensor cover or sensor may adversely affect the sensing performance of the sensor.

NOTICE

- **Do not apply license plate frame or foreign objects such as a bumper sticker or a bumper guard near the sensor. Doing so may adversely affect the sensing performance of the radar.**
- **Always keep the sensor 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.**
- **Be careful not to apply unnecessary force on the sensor or sensor cover. If the sensor is forcibly moved out of proper alignment, the FCA system may not operate correctly. In this case, a warning message may not be displayed. Have the vehicle inspected by an authorized HYUNDAI dealer.**
- **If the front bumper becomes damaged in the area around the sensor, the FCA system may not operate properly. Have the vehicle inspected by an authorized HYUNDAI dealer.**
- **Use only genuine HYUNDAI parts to repair or replace a damaged sensor or sensor cover. Do not apply paint to the sensor cover.**

NOTICE

- **NEVER install any accessories or stickers on the front windshield, nor tint the front windshield.**
- **NEVER locate any reflective objects (i.e. white paper, mirror) over the dashboard. Any light reflection may cause a malfunction of the system.**
- **Pay extreme caution to keep the camera out of water.**
- **NEVER disassemble the camera assembly, nor apply any impact on the camera assembly.**
- **Playing the vehicle audio system at high volume may offset the system warning sounds.**

Information

Have the system checked by an authorized HYUNDAI dealer when:

- **The windshield glass is replaced.**
- **The radar sensor or cover gets damaged or replaced.**

Warning message and warning light



OFE058146L

Forward Collision Avoidance Assist (FCA) system disabled.
Radar blocked

When the sensor cover is blocked with dirt, snow, or debris, the FCA system operation may stop temporarily. If this occurs, a warning message will appear on the LCD display. Remove any dirt, snow, or debris and clean the radar sensor cover before operating the FCA system.

However, the FCA may not properly operate in an area (e.g. open terrain), where any substances are not detected or the camera is blocked with dirt, snow or debris after turning on the vehicle.

Also, even though a warning message does not appear on the LCD display, the FCA may not properly operate.

⚠ WARNING

The FCA system may not activate according to the road conditions, inclement weather, driving conditions or traffic conditions.

System Malfunction



OFE058148L

Check Forward Collision Avoidance Assist system

- When the FCA is not working properly, the FCA warning light (🚗) will illuminate and the warning message will appear for a few seconds. After the message disappears, the master warning light (⚠) will illuminate. In this case, have the vehicle inspected by an authorized HYUNDAI dealer.
- The FCA warning message may appear along with the illumination of the ESC (Electronic Stability Control) warning light.

⚠ WARNING

- **The FCA is only a supplemental system for the driver's convenience. The driver should hold the responsibility to control the vehicle operation. Do not solely depend on the FCA system. Rather, maintain a safe braking distance, and, if necessary, depress the brake pedal to reduce the driving speed.**
- **In certain instances and under certain driving conditions, the FCA system may activate unintentionally. This initial warning message appears on the LCD display with a warning chime.**

  Also, in certain instances the front radar sensor or camera recognition system may not detect the vehicle, pedestrian or cyclists ahead. The FCA system may not activate and the warning message will not be displayed.

- **Even if there is any problem with the brake control function of the FCA system, the vehicle's basic braking performance will operate normally. However, brake control function for avoiding collision will not activate.**
- **If the vehicle in front stops suddenly, you may have less control of the brake system. Therefore, always keep a safe distance between your vehicle and the vehicle in front of you.**
- **The FCA system may activate during braking and the vehicle may stop suddenly shifting loose objects toward the passengers. Always keep loose objects secured.**
- **The FCA system may not activate if the driver applies the brake pedal to avoid a collision.**
- **The brake control may not work, possibly causing a collision, if a vehicle in front abruptly stops. Always pay extreme caution.**

- **Occupants may get injured, if the vehicle abruptly stops by the activated FCA system. Pay extreme caution.**
- **The FCA system operates only to detect vehicles, pedestrian or cyclist in front of the vehicle.**

⚠ WARNING

- **The FCA system operates only to detect vehicles or pedestrians in front of the vehicle.**
- **The FCA system does not operate when the vehicle is in reverse.**
- **The FCA system is not designed to detect other objects on the road such as animals.**
- **The FCA system does not detect vehicles in the opposite lane.**
- **The FCA system does not detect cross traffic vehicles that are approaching.**
- **The FCA system cannot detect the driver approaching the side view of a parked vehicle (for example on a dead end street).**
- **The FCA system cannot detect the cross traffic cyclist that are approaching.**

In these cases, you must maintain a safe braking distance, and if necessary, depress the brake pedal to reduce the driving speed in order to maintain a safe distance.

Limitations of the System

The Forward Collision Avoidance Assist (FCA) system is designed to monitor the vehicle ahead or a pedestrian or cyclists on the roadway through radar signals and camera recognition to warn the driver that a collision is imminent, and if necessary, apply emergency braking.

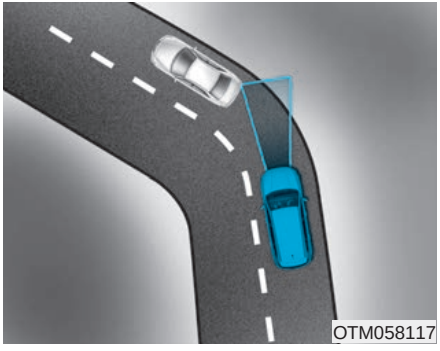
In certain situations, the radar sensor or the camera may not be able to detect the vehicle, a pedestrian or cyclists ahead. In these cases, the FCA system may not operate normally. The driver must pay careful attention in the following situations where the FCA operation may be limited.

Detecting vehicles

The sensor may be limited when:

- The radar sensor or camera is blocked with a foreign object or debris
- Inclement weather such as heavy rain or snow obscures the field of view of the radar sensor or camera
- There is interference by electromagnetic waves

- The vehicle is on unpaved or uneven rough surfaces, or road with sudden gradient changes.
- The vehicle drives through a construction area, on an unpaved road, or above metal materials, such as a railway
- The vehicle in front is too small to be detected (for example a motorcycle or a bicycle, etc.)
- The camera's field of view is not well illuminated (either too dark or too much reflection or too much backlight that obscures the field of view)
- The camera does not recognize the entire vehicle in front.
- The vehicle in front is an oversize vehicle or trailer that is too big to be detected by the camera recognition system (for example a tractor trailer, etc.)
- The vehicle in front does not have rear lights or the rear lights are not turned ON or the rear lights are located unusually.
- The outside brightness changes suddenly, for example when entering or exiting a tunnel
- The vehicle drives inside a building, such as a basement parking lot
- The adverse road conditions cause excessive vehicle vibrations while driving
- You are on a roundabout and the vehicle in front circles
- The camera lens is contaminated due to tinted, filmed or coated windshield, damaged glass, or stuck of foreign matter (sticker, bug, etc.) on the glass
- The camera is damaged.
- The brightness outside is too low such as when the headlamps are not on at night or the vehicle is going through a tunnel.
- Light coming from a street light or an oncoming vehicle is reflected on a wet road surface such as a puddle in the road
- The field of view in front is obstructed by sun glare
- The shadow is on the road by a median strip, trees, etc.
- The vehicle drives through a tollgate.
- The windshield glass is fogged up; a clear view of the road is obstructed
- The radar/camera sensor recognition is limited
- The rear part of the vehicle in front is not normally visible (for example, the vehicle is spinning or the vehicle is overturned)
- There is severe irregular reflection from the radar sensor
- The sensor recognition changes suddenly when passing over a speed bump
- The vehicle in front is driving erratically
- The vehicle in front is moving vertically to the driving direction
- The vehicle in front is stopped vertically
- The vehicle in front is driving towards your vehicle or reversing
- You are on a roundabout and the vehicle in front circles.



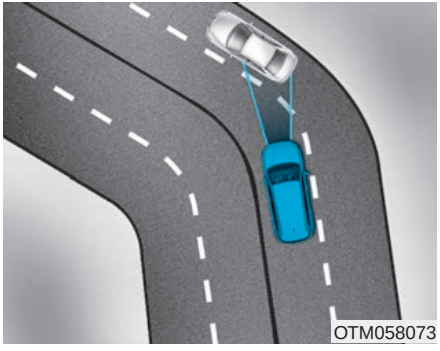
- Driving on a curve

The performance of Forward Collision-Avoidance Assist system may be limited when driving on a curved road.

The front camera or radar sensor recognition system may not detect the vehicle, pedestrian or cyclist traveling in front on a curved road.

This may result in no alarm and braking when necessary.

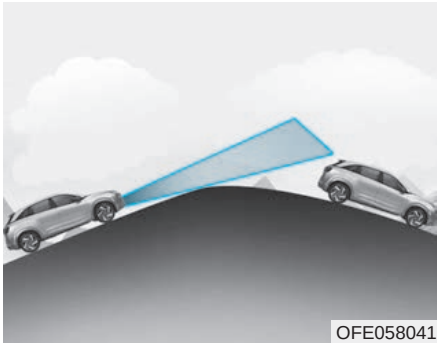
Always pay attention to road and driving conditions, and if necessary, depress the brake pedal to reduce your driving speed in order to maintain a safe distance.



Forward Collision-Avoidance Assist system may recognize in the next lane or outside the lane when driving on a curved road.

If this occurs, the system may unnecessarily alarm the driver and apply the brake.

Always pay attention to road and driving conditions, while driving.



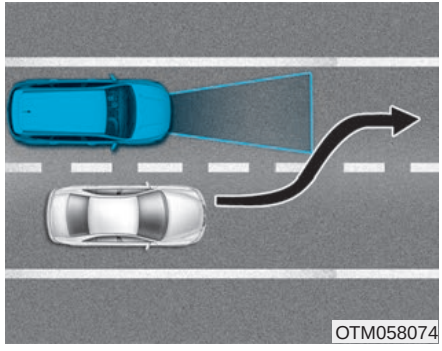
- Driving on a slope

The performance of Forward Collision-Avoidance Assist system may be decreased while driving upward or downward on a slope. The front camera or front radar sensor recognition may not detect the vehicle, pedestrian or cyclist in front.

This may result in unnecessary alarm and braking or no alarm and braking when necessary.

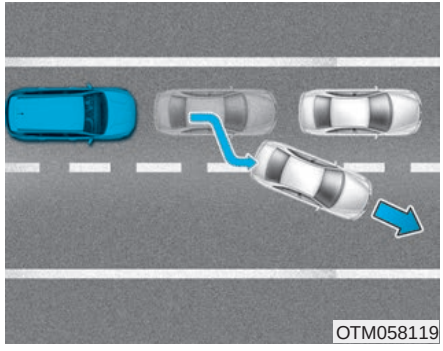
When the system suddenly recognizes the vehicle, pedestrian or cyclist in front while passing over a slope, you may experience sharp deceleration.

Always keep your eyes forward while driving upward or downward on a slope and if necessary depress the brake pedal to reduce your driving speed in order to maintain distance.

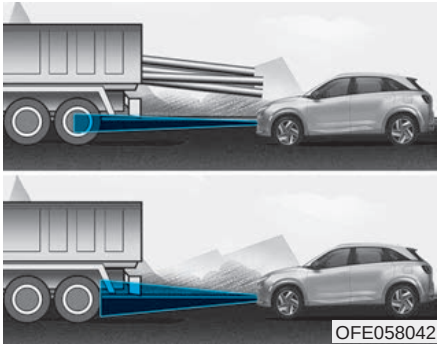


- Changing lanes

When a vehicle changes lanes in front of you, the FCA system may not immediately detect the vehicle, especially if 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.



When driving in stop-and-go traffic, and a stopped vehicle in front of you merges out of the lane, the FCA system may not immediately detect the new vehicle that is now in front of you. 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 the vehicle in front of you

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. The FCA system 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, depress the brake pedal to reduce your driving speed in order to maintain distance.

Detecting pedestrians or cyclists

The sensor may be limited when:

- The pedestrian or cyclist is not fully detected by the camera recognition system, for example, if the pedestrian is leaning over or is not fully walking upright
- The pedestrian or cyclist is moving very quickly or appears abruptly in the camera detection area
- The pedestrian or cyclist is wearing clothing that easily blends into the background, making it difficult to be detected by the camera recognition system
- The outside lighting is too bright (e.g. when driving in bright sunlight or in sun glare) or too dark (e.g. when driving on a dark rural road at night)
- It is difficult to detect and distinguish the pedestrian or cyclist from other objects in the surroundings, for example, when there is a group of pedestrians, cyclist or a large crowd
- There is an item similar to a person's body structure
- The pedestrian or cyclist is small
- The pedestrian has impaired mobility
- The sensor recognition is limited
- The radar sensor or camera is blocked with a foreign object or debris
- Inclement weather such as heavy rain or snow obscures the field of view of the radar sensor or camera
- When light coming from a street light or an oncoming vehicle is reflected on a wet road surface such as a puddle in the road
- The field of view in front is obstructed by sun glare
- The windshield glass is fogged up; a clear view of the road is obstructed
- The adverse road conditions cause excessive vehicle vibrations while driving
- When the pedestrian or cyclist suddenly interrupts in front of the vehicle

- When the cyclist in front is riding intersected with the driving direction
- When there is any other electromagnetic interference
- When the construction area, rail or other metal object is near the cyclist
- If the bicycle material is not reflected well on the radar

Information

In some instances, the FCA system may be canceled when subjected to electromagnetic interference.

Information

This device complies with Part 15 of the FCC rules.

Operation is subject to the following two conditions:

1. **This device may not cause harmful interference.**
2. **This device must accept any interference received, including interference that may cause undesired operation.**

⚠ WARNING

- **Do not use the Forward Collision Avoidance Assist (FCA) system when towing a vehicle. Application of the FCA system while towing may adversely affect the safety of your vehicle or the towing vehicle.**
- **Use extreme caution when 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.**
- **Forward Collision-Avoidance Assist system may operate when an object, which has similar shape or characteristic to a vehicle, pedestrian or cyclist, is detected.**
- **The FCA system is designed to detect and monitor the vehicle ahead or detect a pedestrian or cyclist in the roadway through radar signals and camera recognition. It is not designed to detect, motorcycles, or smaller wheeled objects such as luggage bags, shopping carts, or strollers.**
- **Never try to test the operation of the FCA system. Doing so may cause severe injury or death.**
- **If the front bumper, front glass, radar or camera have been replaced or repaired, have your vehicle inspected by an authorized HYUNDAI dealer.**

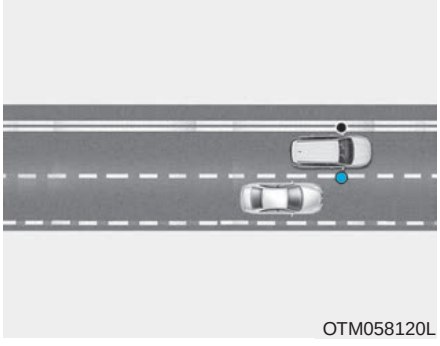
BLIND-SPOT COLLISION WARNING/BLIND-SPOT COLLISION-AVOIDANCE ASSIST

System Description

Blind-Spot Collision Warning (BCW)

The Blind-Spot Collision Warning (BCA) system uses radar sensors in the rear bumper to monitor and warn the driver of an approaching vehicle in the driver's blind spot area.

1) Blind-Spot Area

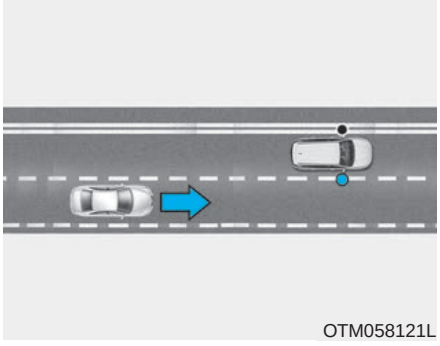


OTM058120L

The blind spot detection range varies relative to vehicle speed.

Note that if your vehicle is traveling much faster than the vehicles around you, the warning will not occur.

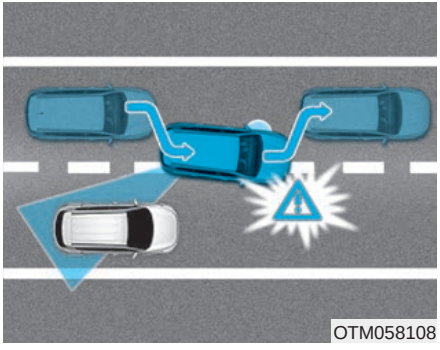
2) Closing at high speed



OTM058121L

The Lane Change Assist feature will alert you when a vehicle is approaching in an adjacent lane at a high rate of speed. If the driver activates the turn signal when the system detects an oncoming vehicle, the system sounds an audible alert.

Blind-Spot Collision-Avoidance Assist (BCA)



OTM058108

The Blind-Spot Collision-Avoidance Assist (BCA) system detects the front lane through the camera installed on the upper front windshield and detects the side/rear areas through radar sensors.

The Blind-Spot Collision-Avoidance Assist system may activate the Electronic Stability Control (ESC) in accordance with a colliding possibility with an approaching vehicle while changing lanes. It is to lower the colliding risk or mitigate the colliding damage.

⚠ WARNING

- **Always be aware of road conditions while driving and be alert for unexpected situations even though the Blind-Spot Collision Warning system and Blind-Spot Collision-Avoidance Assist system are operating.**
- **The Blind-Spot Collision Warning (BCW) system and Blind-Spot Collision-Avoidance Assist (BCA) system are supplemental systems to assist you. Do not entirely rely on the systems. Always pay attention, while driving, for your safety.**
- **The Blind-Spot Collision Warning (BCW) system and Blind-Spot Collision-Avoidance Assist (BCA) system are not substitutes for proper and safe driving. Always drive safely and use caution when changing lanes or backing up the vehicle.**

The Blind-Spot Collision Warning (BCW) system and Blind-Spot Collision-Avoidance Assist (BCA) system may not detect every object alongside the vehicle.

System Setting and Activation

System setting

- The driver can activate the system by placing the power button to the ON position and by selecting "Vehicle settings → Driver assistance → Blind-spot safety" on AVN screen.
  - The BCA and BCW turn on and get ready to be activated when 'Active assistance' is selected. Then, if a vehicle approaches the driver's blind spot area a warning sounds or braking power is applied.
  - The BCW turns on and gets ready to be activated when 'Warning Only' is selected. Then, if a vehicle approaches the driver's blind spot area a warning sounds.
  - The system is deactivated and the indicator on the BCW/BCA button is extinguished when 'Off' is selected.



- If you press the BCW/BCA switch while 'Active assistance' or 'Warning Only' is selected the indicator on the button will turn off and the system will deactivate.
- If you press the BCW/BCA switch while the system is canceled the indicator on the button illuminates and the system activates. In this case, the system returns to the state before the vehicle was turned off.

  When the system is initially turned on and when the vehicle is turned off then on again while the system is in activation, the warning light will illuminate for 3 seconds on the outer side view mirror.
- If the vehicle is turned off then on again, the system maintains the previous state.
- The driver can select the initial warning activation time in the User Settings in the "Vehicle settings → Driver assistance → Warning time" on AVN screen.
- The options for the initial Blind-Spot Collision Warning includes the following:
  - Normal:

    When this condition is selected, the initial Blind-Spot Collision Warning is activated normally. If this setting feels sensitive, change the option to 'Later'.

    The warning activation time may feel late if a vehicle at the side or rear abruptly accelerates.
  - Later:

    Select this warning activation time when the traffic is light and you are driving in a low speed.

Information

If you change the warning timing, the warning time of other systems may change. Always be aware before changing the warning timing.

- The driver can select the warning volume of Blind-Spot Collision Warning in the Vehicle Settings in the AVN screen by selecting 'Vehicle Settings → Driver Assistance → Warning Volume → High/Medium/Low'.

  For more information refer to the separately supplied Navigation manual.

Information

If you change the warning volume, the warning volume of other systems may change. Always be aware before changing the warning volume.

Operating Conditions

The system enters the ready status, when 'Active assistance' or 'Warning Only' is selected and the following conditions are satisfied:

- **Active assistance**

1) The Blind-Spot Collision-Avoidance Assist system will activate when :
   - Vehicle speed is between 40 mph and 110 mph (60 km/h and 180 km/h).
   - The system detects both of the lane lines.
   - An approaching vehicle is detected next to or behind your vehicle.
2) The Blind-Spot Collision Warning system will activate when

   The vehicle speed is above approximately 20 mph (30 km/h).

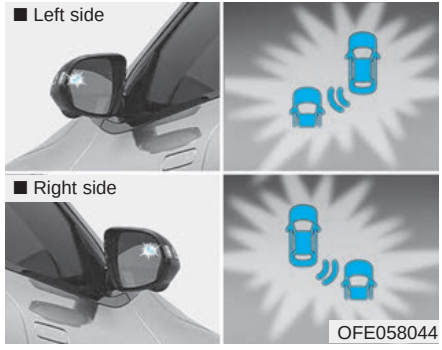
- **Warning Only**

1) The Blind-Spot Collision Warning system will activate when :
   - The vehicle speed is approximately 20 mph (30 km/h).

❈The Blind-Spot Collision-Avoidance Assist system is not activated.

Warning and System Control

Blind-Spot Collision Warning (BCW) system

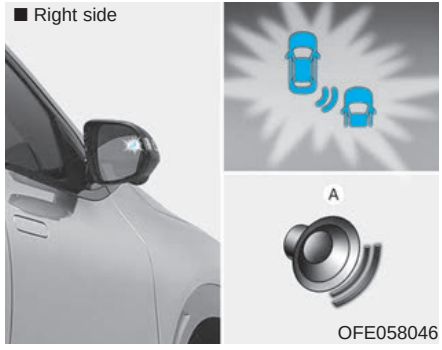


First stage alert

If a vehicle is detected within the boundary of the system, a warning light will illuminate on the outer side view mirror.

Once the detected vehicle is no longer within the blind spot area, the warning will turn off according to the driving conditions of the vehicle.





[A] : Warning sound

Second stage alert

A warning chime to alert the driver will activate when:

1. A vehicle has been detected in the blind spot area by the radar system AND.
2. The turn signal is applied (same side as where the vehicle is being detected).

When this alert is activated, the warning light on the outer side view mirror will also blink. And a warning chime will sound.

If you turn off the turn signal indicator, the second stage alert will be deactivated.

Once the detected vehicle is no longer within the blind spot area, the warning will turn off according to the driving conditions of the vehicle.

⚠ WARNING

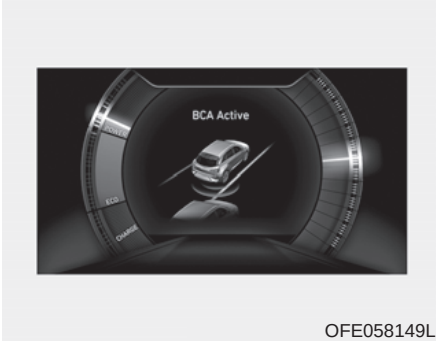
- **The warning light on the outer side view mirror will illuminate whenever a vehicle is detected at the rear side by the system.**

  To avoid accidents, do not focus only on the warning light and neglect to see the surrounding of the vehicle.
- **Drive safely even though the vehicle is equipped with a Blind-Spot Collision Warning (BCA) system. Do not solely rely on the system but check your surrounding before changing lanes or backing the vehicle up.**
- **The system may not alert the driver in some conditions so always check your surroundings while driving.**

⚠ CAUTION

- **The driver should always use extreme caution while operating the vehicle, whether or not the warning light on the outer side view mirror illuminates or there is a warning alarm.**
- **Playing the vehicle audio system at high volume may offset the Blind-Spot Collision Warning system warning sounds.**
- **If any other warning sound such as seat belt warning chime is already generated, the Blind-Spot Collision Warning (BCW) system warning may not sound.**

Blind-Spot Collision-Avoidance Assist (BCA) system



OFE058149L

The Blind-Spot Collision-Avoidance Assist (BCA) system may apply braking power, when an approaching vehicle is detected within a certain distance next to or behind your vehicle.

It gently applies braking power on the tire, which is located in the opposite side of the possibly-colliding point. The instrument cluster will inform the driver of the system activation.

Blind-Spot Collision-Avoidance Assist (BCA) system is automatically deactivated when:

- The vehicle drives a certain distance away
- The vehicle direction is changed against the possible-colliding point
- The steering wheel is abruptly moved
- The brake pedal is depressed
- After a certain period of time

The driver should drive the vehicle in the middle of the vehicle lanes to keep the system in the ready status.

When the vehicle drives too close to one side of the vehicle lanes, the system may not properly operate.

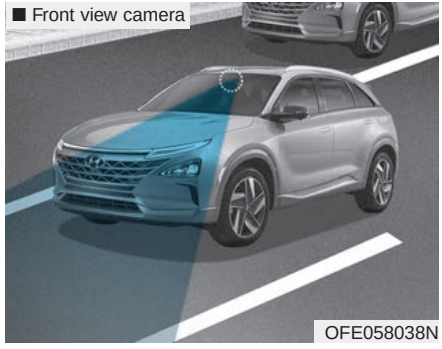
In addition, the system may not properly control your vehicle in accordance with driving situations. Thus, always pay close attention to road situations.

⚠ WARNING

- **The driver is responsible for accurate steering.**
- **Do not unnecessarily operate the steering wheel, when the Blind-Spot Collision-Avoidance Assist System is in operation.**
- **Always pay extreme caution while driving. The Blind-Spot Collision-Avoidance Assist system may not operate or unnecessarily operate in accordance with your driving situations.**
- **The Blind-Spot Collision-Avoidance Assist system is not a substitute for safe driving practices, but a convenience function only. It is the responsibility of the driver to always drive cautiously to prevent unexpected and sudden situations from occurring. Pay attention to the road conditions at all times.**

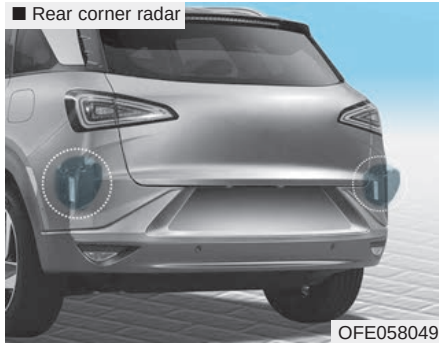
Detecting Sensor (Front View Camera and Rear Corner Radar)

■ Front view camera



OFE058038N

■ Rear corner radar



OFE058049

Front view camera

The front camera is a sensor detecting the lane. If the sensor is covered with snow, rain or foreign substance, the system may temporarily be canceled. The system is canceled due to the degradation of the sensor's detection performance. Always keep the sensor clean.

* Refer to Lane Keeping Assist (LKA) System for cautions for the front camera sensor.

Rear corner radar

The rear radars are the sensors inside the rear bumper for detecting the side and rear areas. Always keep the rear bumper clean for proper operation of the system.

⚠ CAUTION

- **The system may not work properly when the bumper has been damaged, or if the rear bumper has been replaced or repaired.**
- **The sensing range differs somewhat according to the width of the road. When the road is narrow, the system may detect other vehicles in the next lane.**
- **The system may turn off due to strong electromagnetic waves.**
- **Always keep the sensors clean.**
- **NEVER arbitrarily disassemble the sensor component nor apply any impact on the sensor component.**
- **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 system may not operate correctly. In this case, a warning message may not be displayed. Have the vehicle inspected by an authorized HYUNDAI dealer.**
- **Do not apply foreign objects such as a bumper sticker or a bumper guard near the radar sensor or apply paint to the sensor area. Doing so may adversely affect the performance of the sensor.**
- **NEVER install any accessories or stickers on the front windshield, nor tint the front windshield.**
- **Pay extreme caution to keep the camera sensor out of water.**
- **NEVER locate any reflective objects (i.e. white paper, mirror) over the crash pad. Any light reflection may cause a malfunction of the system.**

Warning message



OFE058150L

Blind-Spot Collision Warning (BCW) system disabled. Radar blocked

This warning message may appear when :

- One or both of the sensors on the rear bumper is blocked by dirt or snow or a foreign object.
- Driving in rural areas where the sensor does not detect another vehicle for an extended period of time.
- When there is inclement weather such as heavy snow or rain.

If any of these conditions occur, the light on the BCW/BCA switch and the system will turn off automatically.

When the BCW canceled warning message is displayed in the cluster, check to make sure that the rear bumper is free from any dirt or snow in the areas where the sensor is located. Remove any dirt, snow, or foreign material that could interfere with the radar sensors.

After any dirt or debris is removed, the system should operate normally after about 10 minutes of driving the vehicle.

If the system still does not operate normally have your vehicle inspected by an authorized HYUNDAI dealer.

Information

Turn off the BCW, BCA and RCCW system when a trailer or carrier is installed.

- **Press the BCW/BCA switch (the indicator on the switch will turn off)**
- **Deactivate the RCCW system by deselecting**

  "Vehicle settings → Driver assistance → Blind-spot safety → Rear cross-traffic safety" on AVN screen.

If you use BCW, BCA and RCCW system, remove a trailer or carrier.



OFE058151L

Check Blind-Spot Collision Warning (BCW) system

If there is a problem with the BCW system, a warning message will appear and the light on the switch will turn off. The system will turn off automatically. BCA will not operate also if the BCW system turns off due to malfunction. Have your vehicle inspected by an authorized HYUNDAI dealer.



OFE058152L

Check Blind-Spot Collision-Avoidance Assist (BCA) system

If there is a problem with the BCA system, a warning message will appear. The system will turn off automatically. BCW will still operate even if the BCA system turns off due to malfunction. Have your vehicle inspected by an authorized HYUNDAI dealer to use BCA system.

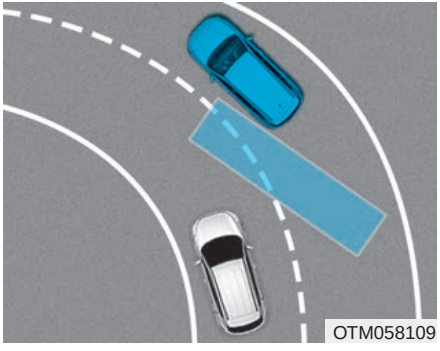
Limitations of the System

The driver must be cautious in the below situations, because the system may not detect other vehicles or objects in certain circumstances.

- When a trailer or carrier is installed.
- The vehicle driven in inclement weather such as heavy rain or snow.
- The sensor is polluted with rain, snow, mud, etc.
- The rear bumper where the sensor is located is covered with a foreign object such as a bumper sticker, a bumper guard, a bike rack, etc.
- The rear bumper is damaged, or the sensor is out of the original default position.
- The vehicle height gets lower or higher due to heavy loading in a trunk, abnormal tire pressure, etc.
- When the temperature of the rear bumper is high.
- When the sensors are blocked by other vehicles, walls or parking-lot pillars.

- The vehicle driven on a curved road.
- The vehicle driven through a toll-gate.
- The road pavement (or the peripheral ground) abnormally contains metallic components (i.e. possibly due to subway construction).
- There is a fixed object near the vehicle, such as a guardrail.
- While going down or up a steep road where the height of the lane is different.
- Driving on a narrow road where trees or grass or overgrown.
- Driving in rural areas where the sensor does not detect another vehicle or structure for an extended period of time.
- Driving on a wet road.
- Driving on a road where the guardrail or wall is in double structure.
- A big vehicle is near such as a bus or truck.
- When the other vehicle approaches very close.
- When the other vehicle passes at a very fast speed.
- While changing lanes.
- If the vehicle has started at the same time as the vehicle next to you and has accelerated.
- When 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 near.
- A flat trailer is near.
- If there are small objects in the detecting area such as a shopping cart or a baby stroller.
- If there is a low height vehicle such as a sports car.
- The brake pedal is depressed.
- ESC (Electronic Stability Control) is activated.
- ESC (Electronic Stability Control) malfunctions.
- The tire pressure is low or a tire is damaged.
- The brake is reworked.
- The vehicle abruptly changes driving direction.
- The vehicle makes sharp lane changes.
- The vehicle sharply stops.
- Temperature is extremely low around the vehicle.
- The vehicle severely vibrates while driving over a bumpy road, uneven/bumpy road, or concrete patch.
- The vehicle drives on a slippery surface due to snow, water puddle, or ice.
- The Lane Keeping Assist (LKA) or Lane Departure Warning (LDW) do not operate normally. (if equipped)

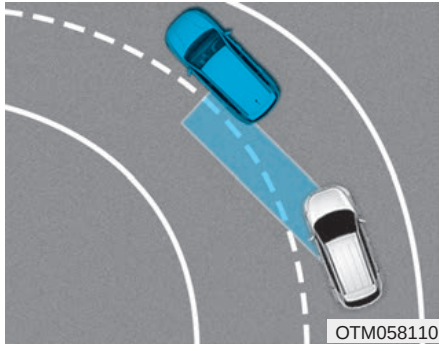
  For more information refer to "Lane Keeping Assist (LKA) system" in this chapter.


OTM058109

• Driving on a curve

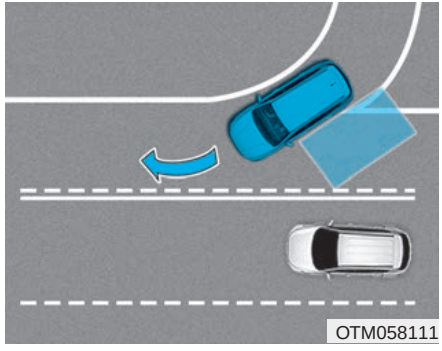
The BCW and BCA systems may not operate properly when driving on a curved road. In certain instances, the system may not detect the vehicle in the next lane.

Always pay attention to road and driving conditions, while driving.


OTM058110

The BCW and BCA systems may not operate properly when driving on a curved road. In certain instances, the system may recognize a vehicle in the same lane.

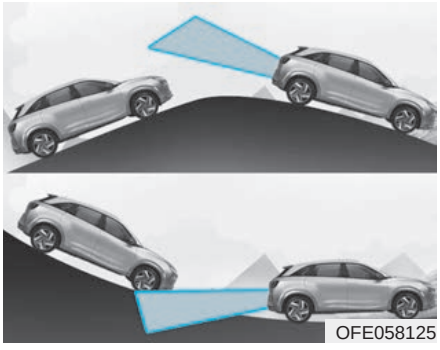
Always pay attention to road and driving conditions, while driving.


OTM058111

• Driving where the road is merging/dividing

The BCW and BCA systems may not operate properly when driving where the road is merging/dividing. In certain instances, the system may not detect the vehicle in the next lane.

Always pay attention to road and driving conditions, while driving.

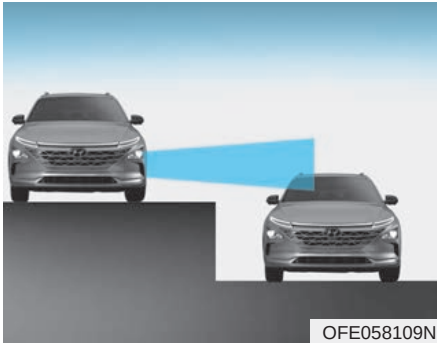

OFE058125

- Driving on a slope

The BCW and BCA systems may not operate properly when driving on a slope. In certain instances the system may not detect the vehicle in the next lane.

Also, in certain instances, the system may wrongly recognize the ground or structures.

Always pay attention to road and driving conditions, while driving.


OFE058109N

- Driving where the heights of the lanes are different

The BCW and BCA systems may not operate properly when driving where the heights of the lanes are different.

In certain instances, the system may not detect the vehicle on a road with different lane heights (i.e. underpass joining section, grade separated intersections, etc.).

Always pay attention to road and driving conditions, while driving.



OFE058110N

[A] : noise barrier, [B] : guardrail

- Driving where there is a structure beside the road

The BCW and BCA systems may not operate properly when driving where there is structure beside the road.

In certain instances, the system may wrongly recognize the structures (i.e. noise barriers, guardrail, double guardrail, median strip, bollard, street light, road sign, tunnel wall, etc.) beside the road.

Always pay attention to road and driving conditions, while driving.

Information

This device complies with Part 15 of the FCC rules.

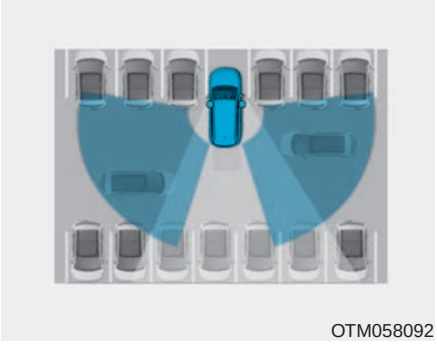
Operation is subject to the following two conditions:

1. **This device may not cause harmful interference.**
2. **This device must accept any interference received, including interference that may cause undesired operation.**

REAR CROSS-TRAFFIC COLLISION WARNING (RCCW) / REAR CROSS-TRAFFIC COLLISION-AVOIDANCE ASSIST (RCCA)

System Description

Rear Cross-Traffic Collision Warning (RCCW) system



OTM058092

The Rear Cross-Traffic Collision Warning (RCCW) system uses radar sensors to monitor the approaching cross traffic from the left and right side of the vehicle when your vehicle is in reverse.

The blind spot detection range varies relative to the approaching vehicle speed.

Rear Cross-Traffic Collision-Avoidance Assist (RCCA) system

The Rear Cross-Traffic Collision-Avoidance Assist (RCCA) system monitors approaching cross traffic from the left and right side of the vehicle when your vehicle is approaching.

The Rear Cross-Traffic Collision-Avoidance Assist (RCCA) system may activate the Electronic Stability Control (ESC) in accordance with a colliding possibility with an approaching vehicle. It is to lower the colliding risk or mitigate the colliding damage.

⚠ WARNING

- **Always be aware of road conditions while driving and be alert for unexpected situations even though the Rear Cross-Traffic Collision Warning system and Rear Cross-Traffic Collision-Avoidance Assist system are operating.**
- **The Rear Cross-Traffic Collision Warning system and Rear Cross-Traffic Collision-Avoidance Assist system are supplemental systems to assist you. Do not entirely rely on the systems. Always pay attention, while driving, for your safety.**
- **The Rear Cross-Traffic Collision Warning system and Rear Cross-Traffic Collision-Avoidance Assist system are not substitutes for proper and safe driving. Always drive safely and use caution when backing up the vehicle.**

System Setting and Activation

System setting

- The driver can activate the systems by placing the power button to the ON position and by selecting "Vehicle settings → Driver assistance → Blind-spot safety → Rear Cross-Traffic Safety" on AVN screen. The RCCA and RCCW turn on and get ready to be activated when 'Rear Cross-Traffic Safety' is selected.
- When the vehicle is turned off then on again, the systems are always ready to be activated.
- When the system is initially turned on and when the vehicle is turned off then on again, the warning light will illuminate for 3 seconds on the outer side view mirror.

The driver can select the initial warning activation time in the User Settings in the AVN screen by selecting 'Vehicle settings → Driver Assistance → Warning Timing'. The options for the initial Rear Cross-Traffic Collision Warning includes the following:

- Normal:

When this condition is selected, the initial Rear Cross-Traffic Collision Warning is activated normally. If this setting feels sensitive, change the option to 'Later'.

The warning activation time may feel late if the a vehicle at the side or rear abruptly accelerates.

- Later:

Select this warning activation time when the traffic is light and you are driving in a low speed.

Information

If you change the warning timing, the warning time of other systems may change. Always be aware before changing the warning timing.

The driver can select the warning volume of the Rear Cross-Traffic Collision Warning in the Vehicle Settings in the AVN screen by selecting 'Vehicle settings → Driver Assistance → Warning Volume → High/Medium/ Low'.

For more information refer to the separately supplied Navigation manual.

Information

If you change the warning volume, the warning volume of other systems may change. Always be aware before changing the warning volume.

Operating conditions

To operate:

Go to the 'Vehicle settings → Driver Assistance → Blind-Spot Safety → Rear Cross-Traffic Safety' on the AVN screen. The system will turn on and standby to activate.

The system will activate when vehicle speed is below 10 mph (16 km/h) and with the gear in R (Reverse).

* The system will not activate when the vehicle speed exceeds 10 mph (16 km/h). The system will activate again when the speed is below 10 mph (16 km/h).

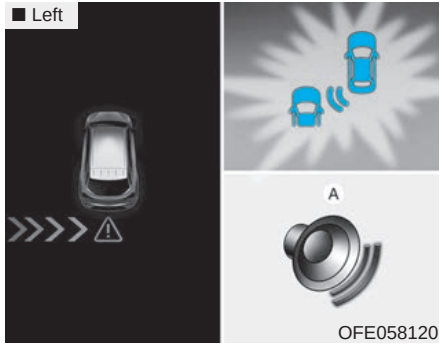
The system's detecting range is approximately 1 – 65 ft. (0.5 – 20 m). An approaching vehicle will be detected if the vehicle speed is within 5 – 22.5 mph (8 – 36 km/h).

Note that the detecting range may vary under certain conditions. As always, use caution and pay close attention to your surroundings when backing up your vehicle.

Warning and System Control

Rear Cross-Traffic Collision Warning (RCCW) system

■ Left



OFE058120

■ Right



OFE058121

If the vehicle detected by the sensors approaches from the rear left/right side of your vehicle, the warning chime will sound, the warning light on the outer side view mirror will blink and a message will appear on the LCD display. If the rear view monitor system is in activation, a message will also appear on the AVN screen.

The warning will stop when:

- The detected vehicle moves out of the sensing area or
- when the vehicle is right behind your vehicle or
- when the vehicle is not approaching your vehicle or
- when the other vehicle slows down.

Rear Cross-Traffic Collision-Avoidance Assist (RCCA) system

■ Left



OFE058153L

■ Right



OFE058154L

If the risk of collision is detected while the RCCW is generated, brake is controlled. The instrument cluster will inform the driver of the brake control. If the rear view monitor system is in activation, a message will also appear on the AVN screen.

After the brake control, the driver must immediately depress the brake pedal and check the surroundings.

- The brake activation by the system lasts for about 2 seconds.

  The driver must pay attention as the brake is disengaged after 2 seconds.
- The brake control by the system is canceled if the driver depresses the brake pedal with sufficient power.
- Brake control is activated once for each right/left approach after shifting the gear to R (Reverse).

The brake control may not operate properly according to the status of the ESC (Electronic Stability Control). The same warning message is displayed on the instrument cluster for this case also.

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

⚠ CAUTION

- **When the operation condition of the Rear Cross-Traffic Collision Warning system is satisfied, the warning will occur every time a vehicle approaches the side or rear of your stopped (0 mph vehicle speed) vehicle.**
- **The system's warning or brake may not operate properly if the left or right of your vehicle's rear bumper is blocked by a vehicle or obstacle.**

- **The driver should always use extreme caution while operating the vehicle, whether or not the warning light on the outer side view mirror illuminates or there is a warning alarm.**
- **Playing the vehicle audio system at high volume may offset the system's warning sounds.**
- **If any other warning sound such as seat belt warning chime is already generated, the Rear Cross-Traffic Collision Warning system warning may not sound.**

⚠ WARNING

- **Drive safely even though the vehicle is equipped with a Rear Cross-Traffic Collision Warning system and Rear Cross-Traffic Collision-Avoidance Assist system. Do not solely rely on the system but check your surrounding when backing the vehicle up.**
- **The driver is responsible for accurate brake control.**
- **Always pay extreme caution while driving. The Rear Cross-Traffic Collision Warning system and Rear Cross-Traffic Collision-Avoidance Assist system may not operate properly or unnecessarily operate in accordance with your driving situations.**
- **The Rear Cross-Traffic Collision-Avoidance Assist system is not a substitute for safe driving practices, but a convenience function only. It is the responsibility of the driver to always drive cautiously to prevent unexpected and sudden situations from occurring. Pay attention to the road conditions at all times.**

Detecting Sensor


OFE058049

The rear corner radars are the sensors inside the rear bumper for detecting the side and rear areas. Always keep the rear bumper clean for proper operation of the system.

⚠ CAUTION

- **The system may not work properly when the bumper has been damaged, or if the rear bumper has been replaced or repaired.**
- **The system may turn off due to strong electromagnetic waves.**
- **Always keep the sensors clean.**
- **NEVER arbitrarily disassemble the sensor component nor apply any impact on the sensor component.**
- **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 system may not operate correctly. In this case, a warning message may not be displayed. Have the vehicle inspected by an authorized HYUNDAI dealer.**
- **Do not apply foreign objects such as a bumper sticker or a bumper guard near the radar sensor or apply paint to the sensor area. Doing so may adversely affect the performance of the sensor.**

Warning message



OFE058150L

Blind-Spot Collision Warning (BCW) system disabled. Radar blocked

This warning message may appear when:

- One or both of the sensors on the rear bumper is blocked by dirt or snow or a foreign object.
- Driving in rural areas where the sensor does not detect another vehicle for an extended period of time.
- When there is inclement weather such as heavy snow or rain.

If any of these conditions occur, the light on the BCW/BCA switch and the system will turn off automatically.

When the BCW canceled warning message is displayed in the cluster, check to make sure that the rear bumper is free from any dirt or snow in the areas where the sensor is located. Remove any dirt, snow, or foreign material that could interfere with the radar sensors.

After any dirt or debris is removed, the system should operate normally after about 10 minutes of driving the vehicle.

If the system still does not operate normally have your vehicle inspected by an authorized HYUNDAI dealer.

Information

Turn off the BCW and RCCW system when a trailer or carrier is installed.

- **Press the BCW/BCA switch (the indicator on the switch will turn off)**
- **Deactivate the RCCW system by deselecting "Vehicle settings → Driver assistance → Blind-spot safety → Rear cross-traffic safety" on AVN screen.**



OFE058151L

Check Blind-Spot Collision Warning (BCW) system

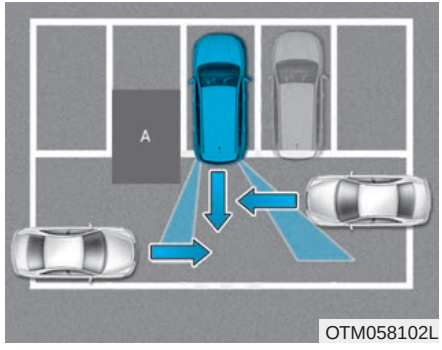
If there is a problem with the BCW system, a warning message will appear and the light on the switch will turn off. The system will turn off automatically. RCCW and RCCA will not operate also if the BCW system turns off due to malfunction. Have your vehicle inspected by an authorized HYUNDAI dealer.

Limitations of the System

The driver must be cautious in the below situations, because the system may not detect other vehicles or objects in certain circumstances.

- When a trailer or carrier is installed.
- The vehicle drives in inclement weather such as heavy rain or snow.
- The sensor is polluted with rain, snow, mud, etc.
- The rear bumper where the sensor is located is covered with a foreign object such as a bumper sticker, a bumper guard, a bike rack, etc.
- The rear bumper is damaged, or the sensor is out of the original default position.
- The vehicle height gets lower or higher due to heavy loading in a trunk, abnormal tire pressure, etc.
- When the temperature of the rear bumper is high.
- When the sensors are blocked by other vehicles, walls or parking-lot pillars.
- The vehicle drives on a curved road.

- The road pavement (or the peripheral ground) abnormally contains metallic components (i.e. possibly due to subway construction).
- There is a fixed object near the vehicle, such as a guardrail.
- While going down or up a steep road where the height of the lane is different.
- Driving on a narrow road where trees or grass or overgrown.
- Driving in rural areas where the sensor does not detect another vehicle for an extended period of time.
- Driving on a wet road.
- Driving on a road where the guardrail or wall is in double structure.
- A big vehicle is near such as a bus or truck.
- When the other vehicle approaches very close.
- When the other vehicle passes at a very fast speed.
- While changing lanes.
- If the vehicle has started at the same time as the vehicle next to you and has accelerated.
- When 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 near.
- A flat trailer is near.
- If there are small objects in the detecting area such as a shopping cart or a baby stroller.
- If there is a low height vehicle such as a sports car.
- The brake pedal is depressed.
- ESC (Electronic Stability Control) is activated.
- ESC (Electronic Stability Control) malfunctions.
- The tire pressure is low or a tire is damaged.
- The brake is reworked.
- The vehicle sharply stops.
- Temperature is extremely low around the vehicle.
- The vehicle severely vibrates while driving over a bumpy road, uneven/bumpy road, or concrete patch.
- The vehicle drives on a slippery surface due to snow, water puddle, or ice.



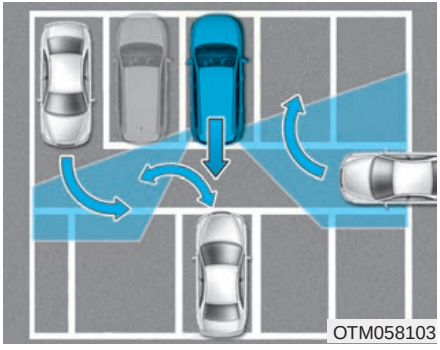
[A] : Structure

- Driving where there is a vehicle or structure near

The system may not operate properly when driving where there is a vehicle or structure near.

In certain instances, the system may not detect the vehicle approaching from behind and the warning or brake may not operate properly.

Always pay attention to your surrounding while driving.

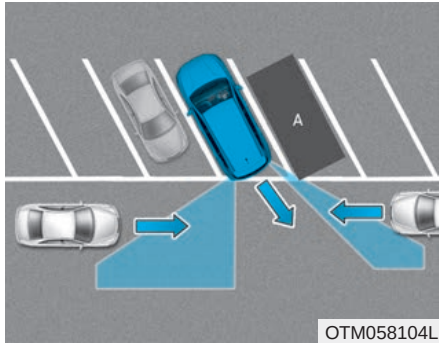

OTM058103

- When the vehicle is in a complex parking environment

  The system may not operate properly when the vehicle is in a complex parking environment.

  In certain instances, the system may not be able to exactly determine the risk of collision for the vehicles which are parking or pulling out near your vehicle (e.g. a vehicle escaping 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 warning or brake may not operate properly.



OTM058104L

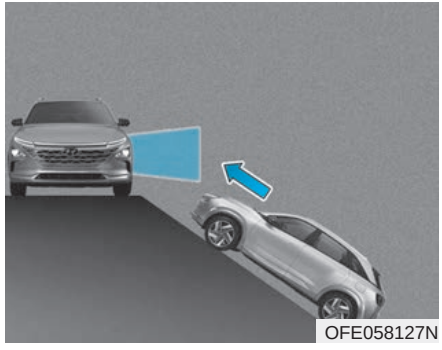
[A] : Vehicle

- When the vehicle is parked diagonally

The system may not operate properly when the vehicle is parked diagonally.

In certain instances, when the diagonally parked vehicle is pulled out of the parking space, the system may not detect the vehicle approaching from the rear left/right of your vehicle. In this case, the warning or brake may not operate properly.

Always pay attention to your surrounding while driving.

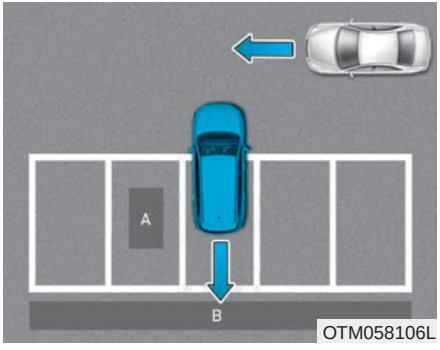

OFE058127N

- When the vehicle is on/near a slope

The system may not operate properly when the vehicle is on/near a slope.

In certain instances, the system may not detect the vehicle approaching from the rear left/right and the warning or brake may not operate properly.

Always pay attention to your surrounding while driving.



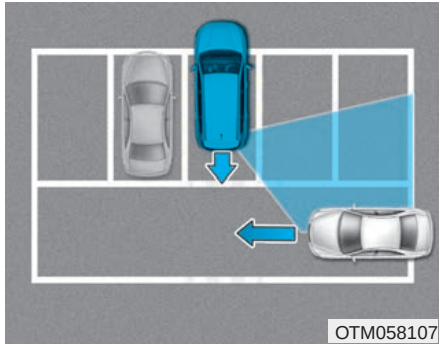
[A] : Structure, [B] : Wall

- Pulling into the parking space where there is a structure

The system may not operate properly when pulling in the vehicle to the parking space where there is a structure at the back or side of your vehicle.

In certain instances, when backing into the parking space, the system may not detect the vehicle moving in front of your vehicle. In this case, the warning or brake may not operate properly.

Always pay attention to the parking space while driving.



- When the vehicle is parked rearward

If the vehicle is parked rearward and the sensor detects the another vehicle in the rear area of the parking space, the system can warn or control braking. Always pay attention to the parking space while driving.

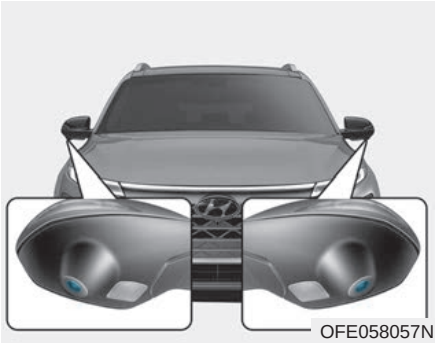
Information

This device complies with Part 15 of the FCC rules.

Operation is subject to the following two conditions:

1. **This device may not cause harmful interference.**
2. **This device must accept any interference received, including interference that may cause undesired operation.**

BLIND-SPOT VIEW MONITOR SYSTEM (IF EQUIPPED)


OFE058057N

The Blind-Spot View Monitor system is designed to help safe driving by providing broader view than the outer side view mirror by displaying rear/side area view on the cluster when the driver turns on the turn signal to change lane.

The system shows the following vehicle on the corresponding side using the cameras at the outside rearview mirrors when the driver turns on the turn signal to change lane.

Operating conditions

With the vehicle on, select the "Driver assistance → Blind-spot safety → Blind-spot view" from the vehicle settings in the AVN screen. Then the corresponding left or right side of the vehicle will be displayed on the cluster if the driver turns on the turn signal while driving.

System operation

■ Left



OFE058055N

■ Right



OFE058056N

Operate the turn signal while driving and the corresponding left or right side rear view will be shown on the cluster.

Blind-Spot View Monitor system warning

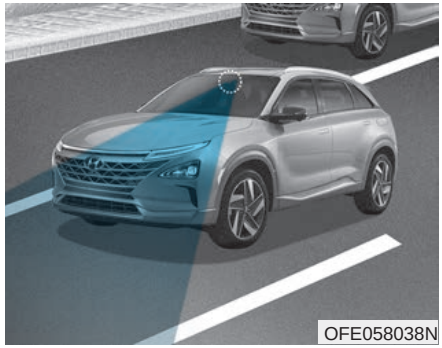


OFE058058N

This message is displayed if the camera recognition system cannot detect the following vehicle due to the weather condition and the system may not operate properly.

Check the surrounding condition visually and with the outer side view mirror when driving.

LANE KEEPING ASSIST (LKA) SYSTEM



The Lane Keeping Assist (LKA) system helps detect lane markers on the road with a front view camera at the front windshield, and assists the driver's steering to help keep the vehicle between lanes.

When the system detects the vehicle straying from its lane, it alerts the driver with a visual and audible warning, while applying a counter-steering torque, to try to prevent the vehicle from moving out of its lane.

⚠ WARNING

The Lane Keeping Assist (LKA) system is not a substitute for safe driving practices, but a convenience function only. It is the responsibility of the driver to always be aware of the surrounding and steer the vehicle.

⚠ WARNING

Take the following precautions when using the Lane Keeping Assist (LKA) system:

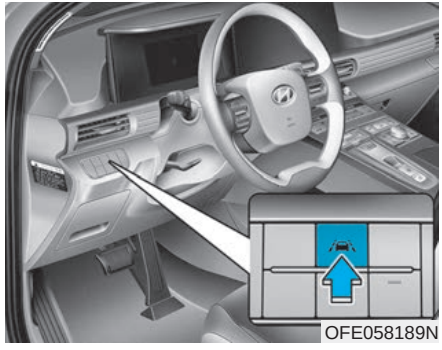
- **Do not steer the steering wheel suddenly when the steering wheel is being assisted by the system.**
- **LKA system helps to prevent the driver from moving out of the lane unintentionally by assisting the driver's steering. However, the driver should not solely rely on the system but always pay attention on the steering wheel to stay in the lane.**

- **The operation of the LKA system can be canceled or not work properly according to road condition and surroundings. Always be cautious when driving.**
- **Do not disassemble the LKA system camera temporarily to tint the window or attach any types of coatings and accessories. If you disassemble the camera and assemble it again, take your vehicle to an authorized HYUNDAI dealer and have the system checked for calibration.**
- **When you replace the windshield glass, LKA system camera or related parts of the steering wheel, take your vehicle to an authorized HYUNDAI dealer and have the system checked for calibration.**

- **The system detects lane lines and controls the steering wheel by a camera, therefore, if the lane lines are hard to detect, the system may not work properly.**

  Please refer to "Limitations of the system".
- **Do not remove or damage the related parts of LKA system.**
- **You may not hear a warning sound of LKA system because of excessive audio sound.**
- **If any other warning sound such as seat belt warning chime is already generated, the Lane Keeping Assist (LKA) system warning may not sound.**
- **Do not place objects on the dashboard that reflects light such as mirrors, white paper, etc. The system may malfunction if the sunlight is reflected.**
- **Always have your hands on the steering wheel while the LKA system is activated. Also, when Active LKA is selected from the User Settings mode and if you continue to drive with your hands off the steering wheel after the "Keep hands on steering wheel" warning message appears, the system will stop controlling the steering wheel. However, if the driver has their hands on the steering wheel again, the system will start controlling the steering wheel.**
- **The steering wheel is not continuously controlled so if the vehicle speed is at a higher speed when leaving a lane the vehicle may not be able to be controlled by the system. The driver must always follow the speed limit when using the system.**
- **If you attach objects to the steering wheel, the system may not assist steering or the hands off alarm may not work properly. When you tow a trailer, make sure that you turn off the LKA system.**
- **When you tow a trailer, make sure that you turn off the LKA system.**

LKA System Operation


OFE058189N

With the POWER button in the ON position, press the LKA button located on the instrument panel on the lower left hand side of the driver.

- The indicator () in the cluster display will initially illuminate white.
- When the indicator(white) activated in the previous ignition cycle, the system turns on without any control.
- If you press the LKA button again, the indicator on the cluster display will go off.

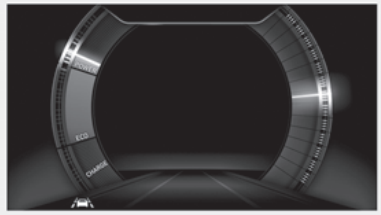
The color of indicator will change depending on the condition of LKA system.

- White : Sensor does not detect lane markers or vehicle speed is under 37 mph (60 km/h).
- Green : Sensor detects lane markers and the system is able to control vehicle steering.

Information

If the indicator (white) is activated from the previous ignition cycle, the system will turn ON without any additional control. If you press the LKA switch again, the indicator on the cluster goes off.

LKA system activation



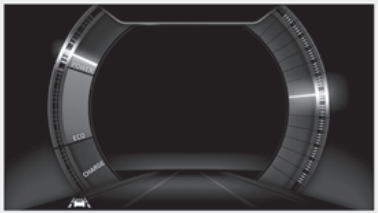
OFE058090

- After LKA is activated, if both lane markers are detected, vehicle speed is over 37 mph (60 km/h) and all the activation conditions are satisfied, LKA indicator will change to green and the steering wheel will be controlled.

⚠ WARNING

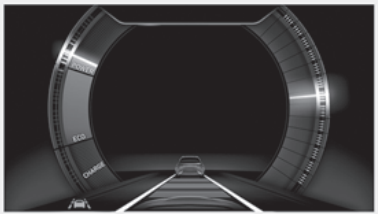
The Lane Keeping Assist (LKA) is a system to help prevent the driver from leaving the lane. However, the driver should not solely rely on the system but always check the road conditions when driving.

■ Lane marker undetected



OFE058090

■ Lane marker detected



OFE058126

- If vehicle speed is over 37 mph (60 km/h) and the system detects lane markers, the color changes from gray to white.
- Both lane markers must be detected for the system to fully activate.

- If your vehicle departs from the projected lane in front of you, the LKA system operates as follows:

■ Left lane marker



OFE058091

■ Right lane marker



OFE058092

1. A visual warning appears on the cluster LCD display. Either the left lane marker or the right lane marker in the cluster LCD display will blink depending on which direction the vehicle is veering. Also, a warning sound will be heard.
2. The LKA system will control the vehicle's steering to prevent the vehicle from crossing the lane maker in below conditions.
   - Vehicle speed is over 37 mph (60 km/h)
   - The system detects both lane markers
   - When driving, the vehicle is located between both lanes normally.
   - The steering wheel is not turned suddenly.

When lanes are detected and all the conditions to activate the LKA system are satisfied, a LKA system indicator light ( ) will change from white to green. This indicates that the LKA system is in the ENABLED state and the steering wheel will be able to be controlled.

Warning Light and Message

Keep hands on steering wheel



OFE058155L

If the driver takes their hands off the steering wheel for several seconds while the LKA system is activated, the system will warn the driver.

Information

If the steering wheel is held very lightly, the message may still appear because the LKA system may not recognize that the driver has their hands on the wheel.

⚠ WARNING

The warning message may appear late according to road conditions. Therefore, always have your hands on the steering wheel while driving.

⚠ WARNING

- **The driver is responsible for accurate steering.**
- **Turn off the system in below situations.**
  - **In bad weather**
  - **In bad road condition**
  - **When the steering wheel needs to be controlled by the driver frequently.**

Information

- **Even though the steering is assisted by the system, the driver can still steer to control the steering wheel.**
- **The steering wheel may feel heavier when the steering wheel is assisted by the system than when it is not.**

Check Lane Keeping Assist (LKA) system

If there is a problem with the system a message will appear for a few seconds. If the problem continues the LKA system failure indicator will illuminate.

LKA system failure indicator



The LKA system failure indicator (yellow) will illuminate if the LKA system is not working properly. Have your vehicle checked by an authorized HYUNDAI dealer.

When there is a problem with the system do one of the following:

- Turn the system on after turning the vehicle off and on again.
- Check if the POWER button is in the ON position.
- Check if the system is affected by the weather. (ex: fog, heavy rain, etc.)
- Check if there is foreign matter on the camera lens.

If the problem is not solved, have your vehicle checked by an authorized HYUNDAI dealer.

The LKA system will not be in the ENABLED state and/or the steering wheel will not be assisted when:

- The turn signal is turned on before changing a lane. If you change lanes without the turn signal on, the steering wheel might be controlled.
- The vehicle is not driven in the middle of the lane when the system 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 37 mph (60 km/h) and over 110 mph (180 km/h).
- The vehicle makes sharp lane changes.
- The vehicle brakes suddenly.
- The lane is very wide or narrow.
- There are more than two lane lines on the road. (e.g. construction area)
- Only one side of the lane marker is detected.
- Radius of a curve is too small.
- The vehicle is driven on a steep incline.
- The steering wheel is turned suddenly.

Limitations of the System

The LKA system may operate prematurely even if the vehicle does not depart from the intended lane, OR, the LKA system may not warn you if the vehicle leaves the intended lane under the following circumstances:

When the lane and road conditions are poor

- It is difficult to distinguish the lane marker from the road because the lane marker is covered with dust or sand.
- It is difficult to distinguish the color of the lane marker from the road.
- There are markings on the road surface that look like a lane marker that is inadvertently being detected by the camera.
- The lane marker is indistinct or damaged.
- The lane marker is merged or divided. (e.g. tollgate)
- The lane number increases or decreases or the lane marker are crossing complicatedly.
- There are more than two lane markers on the road in front of you.
- The lane marker is very thick or thin.
- The lane is very wide or narrow.
- The lane marker ahead is not visible due to rain, snow, water on the road, damaged or stained road surface, or other factors.
- The shadow is on the lane marker by a median strip, trees, guardrail, noise barriers, etc.
- The lane markers are complicated or a structure substitutes for the lines such as a construction area.
- There are crosswalk signs or other symbols on the road.
- The lane marker in a tunnel is stained with oil, etc.
- The lane suddenly disappears such as at the intersection.

When external condition is intervened

- The brightness outside changes suddenly such as when entering or exiting a tunnel, or when passing under a bridge.
- The brightness outside is too low such as when the headlamps are not on at night or the vehicle is going through a tunnel.
- There is a boundary structure in the roadway such as a concrete barrier, guardrail and reflector post that is inadvertently being detected by the camera.
- When light coming from a street light or an oncoming vehicle is reflected on a wet road surface such as a puddle in the road.
- The field of view in front is obstructed by sun glare.
- There is not enough distance between you and the vehicle in front to be able to detect the lane marker or the vehicle ahead is driving on the lane marker.
- Driving on a steep grade, over a hill, or when driving on a curved road.
- The adverse road conditions cause excessive vehicle vibrations while driving.
- The surrounding of the inside rear view mirror temperature is high due to direct sunlight, etc.

When front visibility is poor

- The windshield or the camera lens is blocked with dirt or debris.
- The windshield glass is fogged up; a clear view of the road is obstructed.
- Placing objects on the dashboard, etc.
- The sensor cannot detect the lane because of fog, heavy rain or snow.

⚠ WARNING

The Lane Keeping Assist (LKA) system is a system to help prevent the driver from leaving the lane. However, the driver should not solely rely on the system but always take the necessary actions for safe driving practices.

LKA System Function Change

The driver can change LKA to the Lane Departure Warning (LDW) system or change the LKA system mode from the AVN screen. Go to the "Vehicle settings → Driver Assistance → Lane Safety → Lane Keeping Assist (LKA)/Lane Departure Warning (LDW)/Off".

The system is automatically set to Lane Keeping Assist (LKA) if a function is not selected.

lane Keeping Assist (LKA)

This mode guides the driver to help keep the vehicle within the lanes. It rarely controls the steering wheel, when the vehicle drives well inside the lanes. However, it starts to control the steering wheel, when the vehicle is about to deviate out of the lane.

Lane Departure Warning

LDW system alerts the driver with a visual warning and a warning alarm when the system detects the vehicle departing the lane. The steering wheel will not be controlled.

Off

If you select "Off", the LKA system is deactivated.

LANE FOLLOWING ASSIST (LFA) SYSTEM (IF EQUIPPED)



The Lane Following Assist (LFA) system helps detect lane markers on the road with a front view camera at the front windshield, and assists the driver's steering to help keep the vehicle between lanes.

⚠ WARNING

The Lane Following Assist (LFA) system is not a substitute for safe driving practices, but a convenience function. It is the responsibility of the driver to always be aware of the surrounding and steer the vehicle.

⚠ WARNING

Take the following precautions when using the Lane Following Assist (LFA) system:

- **Do not steer the steering wheel unnecessarily when the steering wheel is being assisted by the system.**
- **LFA system helps the driver to keep the vehicle in the center of the lane by assisting the driver's steering. However, the driver should not solely rely on the system but always pay attention on the steering wheel to stay in the lane.**
- **The operation of the LFA system can be canceled or not work properly according to road condition and surroundings. Always be cautious when driving.**
- **Do not disassemble the LFA system camera temporarily to tint the window or attach any types of coatings and accessories. If you disassemble the camera and assemble it again, we recommend that you take your vehicle to an authorized HYUNDAI dealer and have the system checked for calibration.**
- **When you replace the windshield glass, LFA system camera or related parts of the steering wheel, we recommend that you take your vehicle to an authorized HYUNDAI dealer and have the system checked for calibration.**

- **The system detects lane markers and controls the steering wheel by a camera, therefore, if the lane markers are hard to detect, the system may not work properly.**

  Please refer to "Limitations of the system".
- **Do not remove or damage the related parts of LFA system.**
- **You may not hear a warning sound of LFA system because of excessive audio sound.**
- **Do not place objects on the dashboard that reflects light such as mirrors, white paper, etc. The system may malfunction if the sunlight is reflected.**
- **Always have your hands on the steering wheel while the LFA system is activated. If you continue to drive with your hands off the steering wheel after the "Keep hands on steering wheel" warning message appears, the system will be turned off automatically.**

  However, if the driver has their hands on the steering wheel again, the system will start controlling the steering wheel.
- **The steering wheel may not be continuously controlled by the system if the vehicle speed is too high. The driver must always follow the speed limit when using the system.**
- **If you attach objects to the steering wheel, the system may not assist steering normally or the hands off alarm may not work properly.**
- **When you tow a trailer, make sure that you turn off the LFA system.**

LFA operation

The driver can turn on the LFA system with the vehicle on and by selecting "Vehicle settings → Driver assistance → Driving assist → LFA (Lane Following Assist)" in the AVN screen.

The set-up of the LFA system will be maintained, as selected, when the vehicle is restarted.

Operating conditions

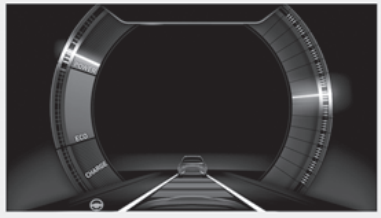
The system is activated when the Lane Following Assist is selected from the vehicle Settings mode when the following conditions are satisfied:

- The Smart Cruise Control is in activation (vehicle deceleration and acceleration)
- Vehicle speed is lower than 90 mph (145 km/h)

When the system is activated, the indicator ( ) on the cluster will illuminate. The color of the indicator will change depending on the condition of LFA system.

- Green : The system is in the assist state.
- White : The system is in the ready state.

LFA activation



OFE058126L

- After LFA is activated, if the vehicle is within the lane and both lane markers are detected (lane color changes grey to white) and there is no abrupt steering by the driver, indicator light will change from white to green. This indicates that the LFA system is in the ASSIST state and the steering wheel will be able to be controlled.
- When the system does not recognize the lane or depending on the vehicle condition in front (presence of the vehicle, driving status, etc.). the steering wheel is controlled restrictively.

  When the control of the steering wheel is stopped temporarily the activation indicator blinks in green and then changes to white.

Warning message



OFE058155L

Keep hands on steering wheel

If the driver takes their hands off from the steering wheel for certain time while the LFA system is activated, the system will warn the driver.

Information

If the steering wheel is held very lightly the message may still appear because the LFA system may not recognize that the driver has their hands on the wheel.

⚠ WARNING

The warning message may appear late according to road conditions. Therefore, always have your hands on the steering wheel while driving.



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Driver's grasp not detected. LFA system is disabled temporarily

If the driver still does not have their hands on the steering wheel after the message "Keep hands on steering wheel", the system will not control the steering wheel and warn the driver only when the driver crosses the lane markers.

However, if the driver has their hands on the steering wheel again, the system will start controlling the steering wheel.

⚠ WARNING

- **The driver is responsible for accurate steering.**
- **Turn off the system and drive the vehicle in following situations.**
  - **In bad weather**
  - **In bad road condition**
  - **When the steering wheel needs to be controlled by the driver frequently.**

i Information

- **Even though the steering is assisted by the system, the driver may control the steering wheel.**
- **The steering wheel may feel heavier when the steering wheel is assisted by the system than when it is not.**



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Check LFA (Lane Following Assist) system

If there is a problem with the system a message will appear for a few seconds. Have the vehicle checked by an authorized HYUNDAI dealer.

The LFA system will not be in the ASSIST state when :

- The turn signal is turned on before changing a lane. If you change lanes without the turn signal on, the steering wheel might be controlled.
- The vehicle is not driven in the middle of the lane when the system 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 with high speed.
- Vehicle speed is over 90 mph (145 km/h).
- The vehicle makes sharp lane changes.
- The vehicle brakes suddenly.
- Only one lane marker is detected.
- The lane is very wide or narrow.
- Radius of a curve is too small.
- The vehicle is driven on a steep incline.
- The steering wheel is turned suddenly.

Limitations of the system

The LFA system may operate prematurely even if the vehicle does not depart from the intended lane, OR, the LFA system may not assist your steering if the vehicle leaves the intended lane under the following circumstances:

When the lane and road conditions are poor

- It is difficult to distinguish the lane marking from the road surface or the lane marking is faded or not clearly marked.
- It is difficult to distinguish the color of the lane marker from the road.
- There are markings on the road surface that look like a lane marker that is inadvertently being detected by the camera.
- The lane marker is indistinct or damaged.
- The lane marker is merged or divided. (e.g. tollgate)
- The lane number increases or decreases or the lane marker are crossing complicatedly.
- There are more than two lane markers on the road in front of you.
- The lane marker is very thick or thin.
- The lane marker ahead is not visible due to rain, snow, water on the road, damaged or stained road surface, or other factors.
- The shadow is on the lane marker by a median strip, trees, guardrail, noise barriers, etc.
- The lane markers are complicated or a structure substitutes for the lines such as a construction area.
- There are crosswalk signs or other symbols on the road.
- The lane suddenly disappears such as at the intersection.

When external condition is intervened

- The brightness outside changes suddenly such as when entering or exiting a tunnel, or when passing under a bridge.
- The brightness outside is too low such as when the headlamps are not on at night or the vehicle is going through a tunnel.
- There is a boundary structure in the roadway such as a concrete barrier, guardrail and reflector post that is inadvertently being detected by the camera.
- When light coming from a street light or an oncoming vehicle is reflected on a wet road surface such as a puddle in the road.
- The field of view in front is obstructed by sun glare.
- There is not enough distance between you and the vehicle in front to be able to detect the lane marker or the vehicle ahead is driving on the lane marker.

- Driving on a steep grade, over a hill, or when driving on a curved road.
- The adverse road conditions cause excessive vehicle vibrations while driving.
- The surrounding of the inside rear view mirror temperature is high due to direct sunlight, etc.

When front visibility is poor

- The windshield or the camera lens is blocked with dirt or debris.
- The windshield glass is fogged up; a clear view of the road is obstructed.
- Placing objects on the dashboard, etc.
- The sensor cannot detect the lane because of fog, heavy rain or snow.

DRIVER ATTENTION WARNING (DAW) SYSTEM

The Driver Attention Warning (DAW) system displays the condition of the driver's fatigue and inattention.

System Setting and Activation

System setting

- To turn ON the Driver Attention Warning (DAW) system, turn on the vehicle, and then select 'Vehicle settings → Driver Assistance → Driver Attention Warning → High sensitivity/Normal sensitivity' on the AVN screen.
- The driver can select the mode of the Driver Attention Warning (DAW) system.
  - High sensitivity : The Driver Attention Warning system helps alert the driver of his/her fatigue level or inattentive driving practices faster than Normal mode.
  - Normal sensitivity : The Driver Attention Warning system helps alert the driver of his/her fatigue level or inattentive driving practices.
  - Off : The Driver Attention Warning system is deactivated.
- The set-up of the Driver Attention Warning system will be maintained, as selected, when the vehicle is re-started.

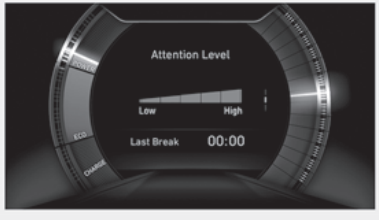
Driver's attention level

■ System off



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■ Attentive driving



OFE058158L



OFE058159L

- The driver can monitor their driving conditions on the LCD display.

  The DAW screen will appear when you select the Assist mode tab ( ) on the LCD display if the system is activated. **For more details, refer to "LCD Display Modes" in chapter 3.**
- The driver's attention level is displayed on the scale of 1 to 5. The lower the number is, the more inattentive the driver is.
- The number decreases when the driver does not take a break for a certain period of time.
- The number increases when the driver attentively drives for a certain period of time.
- When the driver turns on the system while driving, it displays 'Last Break time' and level reflected that.

Take a break



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- The "Consider taking a break" message appears on the LCD display and a warning sounds in order to suggest the driver to take a break, when the driver's attention level is below 1.
- The Driver Attention Warning (DAW) system does not suggest the driver to take a break, when the total driving time is shorter than 10 minutes.

Resetting the System

- The last break time is set to 00:00 and the driver's attention level is set to 5 (very attentive) when the driver resets the Driver Attention Warning (DAW) system.
- The Driver Attention Warning (DAW) system resets in the following situations.
  - The vehicle is turned OFF.
  - The driver unfastens the seat belt and then opens the driver's door.
  - The vehicle is stopped for more than 10 minutes.
- The Driver Attention Warning (DAW) system operates again, when the driver restarts driving.

System Standby



OFE058161L

The Driver Attention Warning (DAW) system enters the ready status and displays the 'Standby' screen in the following situations.

- The camera sensor keeps failing to detect the lanes.
- Driving speed remains under 40 mph (64 km/h) or over 110 mph (177 km/h).

System Malfunction



OFE058162L

Check Driver Attention Warning (DAW) system

When the warning message appears, the system is not working properly. In this case, have the vehicle inspected by an authorized HYUNDAI dealer.

⚠ WARNING

- **The Driver Attention Warning system is not a substitute for safe driving practices, but a convenience function only. It is the responsibility of the driver to always drive cautiously to prevent unexpected and sudden situations from occurring. Pay attention to the road conditions at all times.**
- **The system may suggest a break according to the driver's driving pattern or habits even if the driver doesn't feel fatigue.**
- **The driver, who feels fatigued, should take a break, even though there is no break suggestion by the Driver Attention Warning system.**

NOTICE

The Driver Attention Warning system utilizes the camera sensor on the front windshield for its operation. To keep the camera sensor in the best condition, you should observe the followings:

- **Do not disassemble the camera temporarily to tint the window or to attach any types of coatings and accessories. If you disassemble a camera and assemble it again, take your vehicle to an authorized HYUNDAI dealer and have the system checked for calibration.**
- **NEVER install any accessories or stickers on the front windshield, nor tint the front windshield.**
- **NEVER locate any reflective objects (i.e. white paper, mirror) over the dashboard. Any light reflection may cause a malfunction of the Driver Attention Alert (DAW) system.**
- **Pay extreme caution to keep the camera sensor out of water.**

⚠ CAUTION

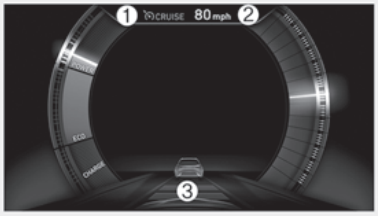
The Driver Attention Warning (DAW) system may not properly operate with limited alerting in the following situations:

- **The lane detection performance is limited. (For more details, refer to "Lane Keeping Assist (LKA) system" in this chapter.)**
- **The vehicle is violently driven or is abruptly turned for obstacle avoidance (e.g. construction area, other vehicles, fallen objects, bumpy road).**
- **Forward drivability of the vehicle is severely undermined (possibly due to wide variation in tire pressures, uneven tire wear-out, toe-in/toe-out alignment).**
- **The vehicle drives on a curvy road.**
- **The vehicle drives on a bumpy road.**
- **The vehicle drives through a windy area.**
- **The vehicle is controlled by the following driving assist systems:**
  - **Lane Keeping Assist (LKA) system**
  - **Forward Collision-Avoidance Assist (FCA) system**
  - **Smart Cruise Control (SCC) system**
  - **Lane Following Assist (LFA) system**

⚠ CAUTION

Playing the vehicle audio system at high volume may offset the Driver Attention Warning (DAW) system warning sounds.

SMART CRUISE CONTROL WITH STOP & GO SYSTEM



OFE058169N

① Cruise indicator (CRUISE)
② Set speed
③ Vehicle-to-vehicle distance

The Smart Cruise Control System allows you to program the vehicle to maintain constant speed and distance detecting the vehicle ahead without depressing the accelerator/ brake pedal.

⚠ WARNING

For your safety, please read the owner's manual before using the Smart Cruise Control system.

⚠ WARNING

The Smart Cruise Control system is not a substitute for safe driving practices, but a convenience function only. It is the responsibility of the driver to always check the speed, distance to the vehicle ahead and road & driving conditions.

⚠ WARNING

Take the following precautions :

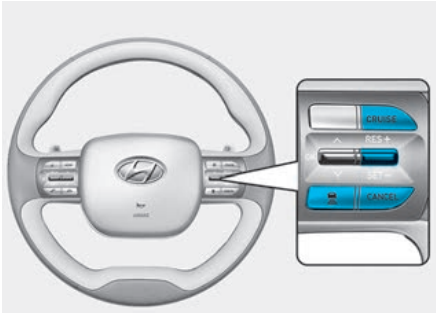
- **Always set the vehicle speed under the speed limit in your country.**
- **If the Smart Cruise Control is left on, (cruise (CRUISE) indicator light in the instrument cluster is illuminated) the Smart Cruise Control can be activated unintentionally.**

  Keep the Smart Cruise Control System off (cruise (CRUISE) indicator light OFF) when the Smart Cruise Control is not in use, to avoid inadvertently setting a speed.
- **Use the Smart Cruise Control System only when traveling on open highways in good weather.**

⚠ WARNING

- **Do not use the Smart Cruise Control when it may not be safe 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 in parking lots**
  - **When driving near crash barriers**
  - **When driving on a sharp curve**
  - **When driving with limited view (possibly due to bad weather, such as fog, snow, rain or sandstorm)**
  - **When the vehicle sensing ability decreases due to vehicle modification resulting level difference of the vehicle's front and rear**

Smart Cruise Control Switch



OFE058170N

CRUISE: Turns cruise control system on or off.

RES+: Resumes or increases cruise control speed.

SET-: Sets or decreases cruise control speed.

: Sets vehicle-to-vehicle distance.

CANCEL: Cancels cruise control operation.

To Adjust the Sensitivity of Smart Cruise Control

The sensitivity of vehicle speed when following the front vehicle to maintain the set distance can be adjusted. Go to the 'Vehicle settings → Driver Assistance → SCC Reaction → Fast/Normal/Slow' on the AVN screen. You may select one of the three stages you prefer.

- Fast:

  Vehicle speed following the front vehicle to maintain the set distance is faster than normal speed.
- Normal:

  Vehicle speed following the front vehicle to maintain the set distance is normal.
- Slow:

  Vehicle speed following the front vehicle to maintain the set distance is slower than normal speed.

Information

The last selected speed sensitivity of the smart cruise control is remained in the system.

To Convert to Cruise Control Mode

The driver may choose to switch to use the conventional Cruise Control mode (speed only control function) by following these steps:

1. Push the CRUISE button on the steering wheel to turn the system on. The cruise (CRUISE) indicator will illuminate.
2. Push and hold the Vehicle-to-Vehicle Distance button for more than 2 seconds.
3. Choose between "Smart Cruise Control" and "Cruise Control".

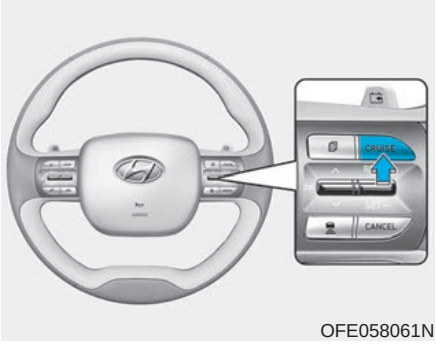
When the system is canceled using the CRUISE button or the CRUISE button is used after the vehicle is turned on, the Smart Cruise Control mode will turn on.

⚠ WARNING

When using the conventional Cruise Control mode, you must manually adjust the distance to other vehicles by depressing the brake pedal. The system does not automatically adjust the distance to vehicles in front of you.

Smart Cruise Control Speed

To set Smart Cruise Control speed

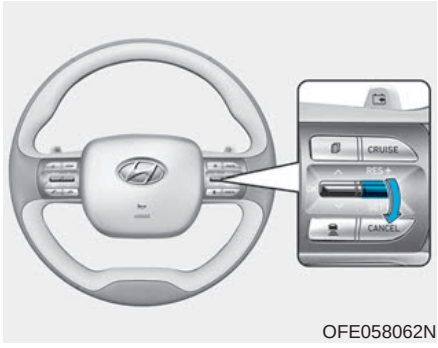


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1. Push the CRUISE button on the steering wheel to turn the system on. The cruise indicator will illuminate.
2. Accelerate to the desired speed.

   The Smart Cruise Control speed can be set as follows:

   - 6 – 100 mph (10 - 160 km/h) : when there is no vehicle in front
   - 0 – 100 mph (0 - 160 km/h) : when there is a vehicle in front



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3. Push the toggle switch down (SET-), and release it at the desired speed. The Set Speed and Vehicle-to-Vehicle Distance on the LCD display will illuminate.
4. Release the accelerator pedal. The desired speed will automatically be maintained.

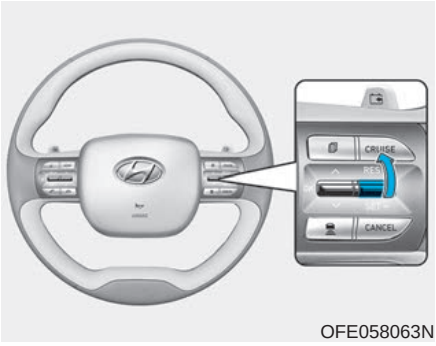
If there is a vehicle in front of you, the speed may decrease to maintain the distance to the vehicle ahead.

On a steep grade, the vehicle may slow down or speed up slightly while going uphill or downhill.

Information

- **Vehicle speed may decrease on an upward slope and increase on a downward slope.**
- **When you are setting the cruise control speed, with a vehicle in front and your vehicle speed is between 0 ~ 20 mph (0 ~ 30 km/h), the speed will set to 20 mph (30 km/h).**

To increase Smart Cruise Control set speed



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Follow either of these procedures:

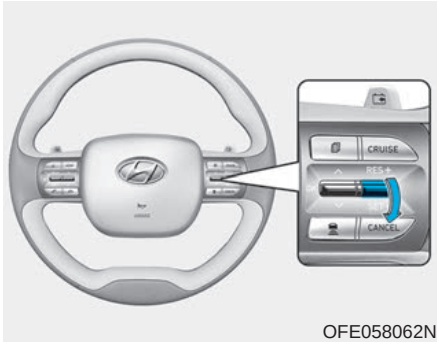
- Push the toggle switch up (RES+), and release it immediately. The cruising speed will increase by 1 mph (1 km/h) each time you move the toggle switch up in this manner.
- Push the toggle switch up (RES+), and hold it. Your vehicle set speed will increase by 5 mph (10 km/h). Release the toggle switch at the speed you want.

  You can set the speed to 105 mph (170 km/h).

⚠ CAUTION

Check the driving condition before using the toggle switch. Driving speed sharply increases, when you push up and hold the toggle switch.

To decrease the Smart Cruise Control set speed



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Follow either of these procedures:

- Push the toggle switch down (SET-), and release it immediately. The cruising speed will decrease by 1 mph (1 km/h) each time you move the toggle switch down in this manner.
- Push the toggle switch down (SET-), and hold it. Your vehicle set speed will decrease by 5 mph (10 km/h). Release the toggle switch at the speed you want.
- You can set the speed to 20 mph (30 km/h).

To temporarily accelerate with the Smart Cruise Control on

If you want to speed up temporarily when the Smart Cruise Control is on, depress the accelerator pedal. Increased speed will not interfere with Smart Cruise Control operation or change the set speed.

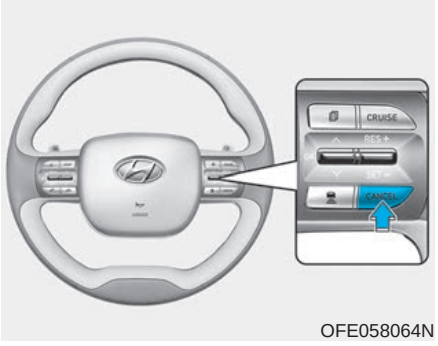
To return to the set speed, take your foot off the accelerator pedal.

If you push the toggle switch down (SET-) at increased speed, the cruising speed will be set again pedal.

⚠ CAUTION

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

Smart Cruise Control set speed will be temporarily canceled when:



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Canceled manually

- Depressing the brake pedal.
- Pushing the CANCEL button located on the steering wheel.
- Depress the brake pedal and press the button at the same time, when the vehicle is at a standstill.

The Smart Cruise Control turns off temporarily when the Set Speed and Vehicle-to-Vehicle Distance indicator on the LCD display turns off.

The cruise indicator is illuminated continuously.

Canceled automatically

- The driver's door is opened.
- The vehicle is shifted to N (Neutral), R (Reverse) or P (Park).
- The EPB (Electronic Parking Brake) is applied.
- The vehicle speed is over 105 mph (170 km/h).
- The vehicle stops on a steep incline.
- The ESC (Electronic Stability Control), TCS (Traction Control System) or ABS is operating.
- The ESC is turned off.
- The sensor or the cover is dirty or blocked with foreign matter.
- The vehicle is stopped for a certain period of time.
- The vehicle stops and goes repeatedly for a long period of time.
- The accelerator pedal is continuously depressed for a long period of time.
- The driving performance is abnormal.

- The driver starts driving by pushing the toggle switch up (RES+)/down (SET-) or depressing the accelerator pedal, after the vehicle is stopped by the Smart Cruise Control system with no other vehicle ahead.
- The driver starts driving by pushing the toggle switch up (RES+)/down (SET-) or depressing the accelerator pedal, after stopping the vehicle with a vehicle stopped far away in front.
- The Forward Collision-Avoidance Assist (FCA) is activated.

Each of these actions will cancel the Smart Cruise Control operation. The Set Speed and Vehicle-to-Vehicle Distance on the LCD display will go off.

In a condition the Smart Cruise Control is cancelled automatically, the Smart Cruise Control will not resume even though the RES+ or SET- toggle switch is pushed.

Information

If the Smart Cruise Control is canceled by other than the reasons mentioned, have the system checked by an authorized HYUNDAI dealer.



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Smart Cruise Control canceled

If the system is cancelled, the warning chime will sound and a message will appear for a few seconds.

You must adjust the vehicle speed by depressing the accelerator or brake pedal according to the road condition ahead and driving condition.

Always check the road conditions. Do not rely on the warning chime.

To resume Smart Cruise Control set speed

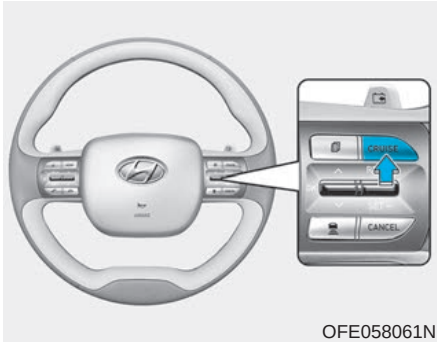
If any method other than the cruise toggle switch was used to cancel cruising speed and the system is still activated, the cruising speed will automatically resume when you push the toggle switch up (RES+) or down (SET-).

If you push the toggle switch up (RES+), the speed will resume to the recently set speed. However, if vehicle speed drops below 20 mph (30 km/h), it will resume when there is a vehicle in front of your vehicle.

⚠ CAUTION

Always check the road conditions when you push the toggle switch up (RES+) to resume speed.

To turn Cruise Control off



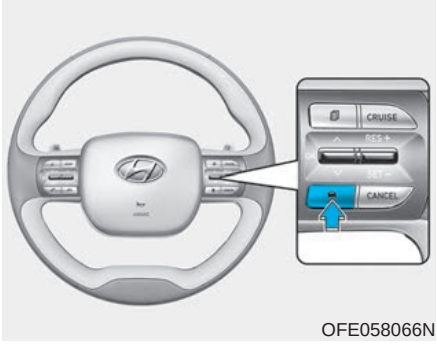
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- Push the CRUISE button (the cruise indicator light will go off).

  If you wish not to use the cruise control system, always turn the system off by pushing the CRUISE button.

Smart Cruise Control Vehicle-to-Vehicle Distance

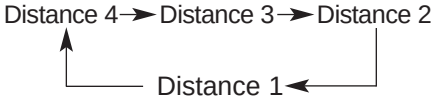
To set Vehicle-to-Vehicle Distance



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When the Smart Cruise Control system is ON, you can set and maintain the distance from the vehicle ahead of you without pressing the accelerator or brake pedal.

Each time the button is pressed, the vehicle to vehicle distance changes as follows:



For example, if you drive at 56 mph (90 km/h), the distance is maintained as follows:

Distance 4 - approximately 172 feet
Distance 3 - approximately 130 feet
Distance 2 - approximately 106 feet
Distance 1 - approximately 82 feet

Information

The distance is set to the last set distance when the system is used for the first time after starting the vehicle.

When the lane ahead is clear:



OFE058174N

The vehicle speed will maintain the set speed.

When there is a vehicle ahead of you in your lane:



OFE058175N/OFE058176N/
OFE058177N/OFE058178N

- Your vehicle speed will slow down or speed up to maintain the selected distance.
- If the vehicle ahead speeds up, your vehicle will travel at a steady cruising speed after accelerating to the set speed.
- If distance from the front vehicle has changed due to accelerating or decelerating of the front vehicle, the distance on the LCD display may change.

⚠ WARNING



OFE058144L

When using the Smart Cruise Control system:

- **The warning message appears and warning chime sounds if the vehicle is unable to maintain the selected distance from the vehicle ahead.**
- **If the warning message appears and warning chime sounds, depress the brake pedal or use the steering wheel toggle switch to actively adjust the vehicle speed, and the distance to the vehicle ahead.**

- **Even if the warning chime is not activated, always pay attention to the driving conditions to prevent dangerous situations from occurring.**
- **Playing the vehicle audio system at high volume may offset the system warning sounds.**

⚠ CAUTION



OFE058179L

If the vehicle ahead (vehicle speed: less than 20 mph (30 km/h)) disappears to the next lane, the warning chime will sound and a message "Watch for surrounding vehicles" will appear. Adjust your vehicle speed for vehicles or objects that can suddenly appear in front of you by depressing the brake pedal.

Always pay attention to the road condition ahead.

In traffic situation



OFE058180L

Use switch or pedal to accelerate

- 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. However, if the vehicle stops for more than 3 seconds, you must depress the accelerator pedal or push up the toggle switch (RES+) or push down the toggle switch (SET-) to start driving.
- If you push the smart cruise control toggle switch (RES+ or SET-) while Auto Hold and smart cruise control is operating the Auto Hold will be released regardless of accelerator pedal operation and the vehicle will start to move. The AUTO HOLD indicator changes from green to white.

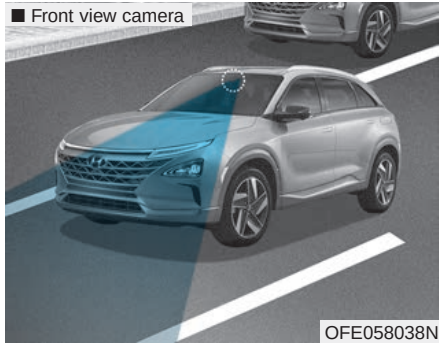
Sensor to Detect Distance to the Vehicle Ahead

■ Front radar



OFE058106N

■ Front view camera



OFE058038N

The Smart Cruise Control uses a sensor to detect distance to the vehicle ahead.

If the sensor is covered with dirt or other foreign matter, the vehicle to vehicle distance control may not operate correctly.

Always keep the sensor clean.

Warning message



OFE058181L

Smart Cruise Control disabled. Radar blocked

When the sensor lens cover is blocked with dirt, snow, or debris, the Smart Cruise Control system operation may stop temporarily. If this occurs, a warning message will appear on the LCD display. Remove any dirt, snow, or debris and clean the radar sensor lens cover before operating the Smart Cruise Control system. The Smart Cruise Control system may not properly activate, if the radar is totally contaminated, or if any substance is not detected after turning on the vehicle (e.g. in an open terrain).

Information

For the SCC operation is temporarily stopped if the radar is blocked, but you wish to use conventional cruise control mode (speed only control function), you must convert to the cruise control mode (refer to "To convert to Cruise Control mode" in the following page).

⚠ 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 Cruise Control system may not operate correctly. In this case, a warning message may not be displayed. Have the vehicle inspected by an authorized HYUNDAI dealer.**
- **If the front bumper becomes damaged in the area around the radar sensor, the Smart Cruise Control System may not operate properly. Have the vehicle inspected by an authorized HYUNDAI dealer.**
- **Use only genuine HYUNDAI parts to repair or replace a damaged sensor or sensor cover. Do not apply paint to the sensor cover.**



OFE058182L

Check Smart Cruise Control System

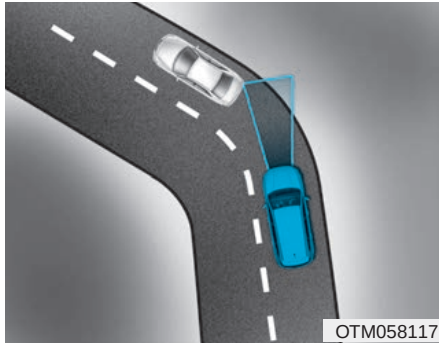
The message will appear when the vehicle to vehicle distance control system is not functioning normally.

Take your vehicle to an authorized HYUNDAI dealer and have the system checked.

Limitations of the System

The Smart Cruise Control system may have limits to its ability to detect distance to the vehicle ahead due to road and traffic conditions.

On curves


OTM058117

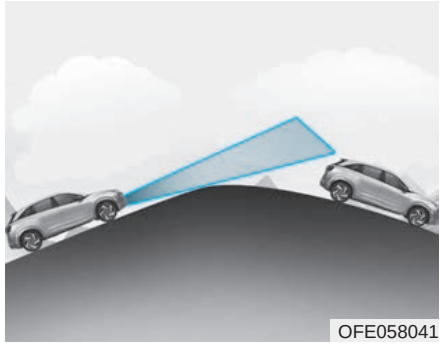
- The Smart Cruise Control system may not detect a moving vehicle in your lane, and then your vehicle could accelerate to the set speed. Also, the vehicle speed will decrease when the vehicle ahead is recognized suddenly.
- Select the appropriate set speed on curves and apply the brakes or accelerator pedal if necessary.


OTM058073

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

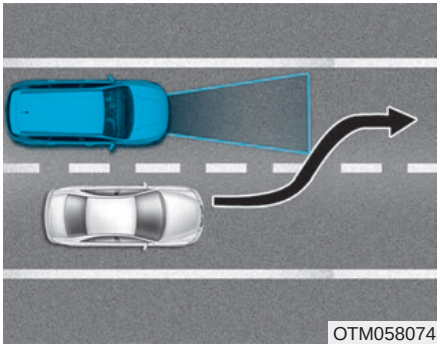
Apply the accelerator pedal and select the appropriate set speed. Check to be sure that the road conditions permit safe operation of the Smart Cruise Control.

On inclines


OFE058041

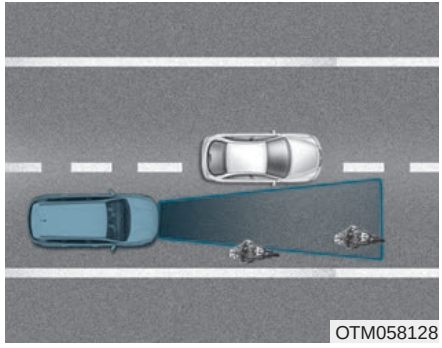
- During uphill or downhill driving, the Smart Cruise Control system may not detect a moving vehicle in your lane, and cause your vehicle to accelerate to the set speed. Also, the vehicle speed will rapidly decrease when the vehicle ahead is recognized suddenly.
- Select the appropriate set speed on inclines and apply the brake or accelerator pedal if necessary.

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.
- If a slower vehicle moves into your lane, your speed may decrease to maintain the distance to the vehicle ahead.
- If a faster vehicle which moves into your lane, your vehicle will accelerate to the set speed.

Detecting vehicles



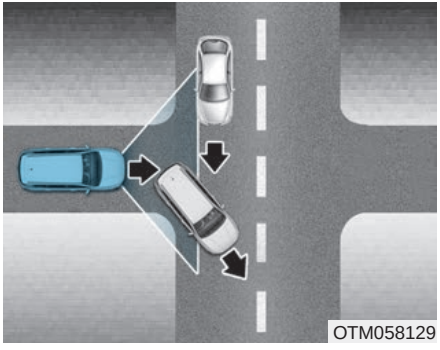
Some vehicles in your lane cannot be recognized by the sensor:

- Narrow vehicles such as motorcycles or bicycles
- Vehicles offset to one side
- Slow-moving vehicles or sudden-decelerating vehicles
- Stopped vehicles
- Vehicles with small rear profile such as trailers with no loads

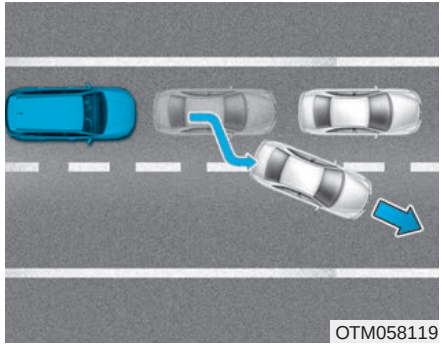
A vehicle ahead cannot be recognized correctly by the sensor if any of following occurs:

- 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

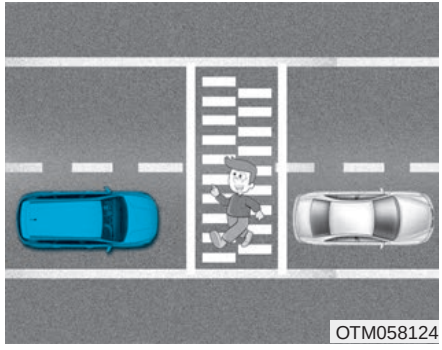
Apply the brake or accelerator pedal if necessary.



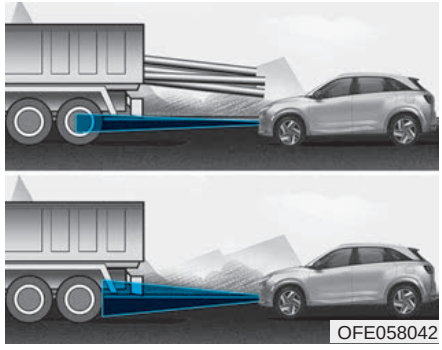
- Your vehicle may accelerate when a vehicle ahead of you disappears.
- When you are warned that the vehicle ahead of you is not detected, drive with caution.



- When driving in stop-and-go traffic, and a stopped vehicle in front of you merges out of the lane, the system may not immediately detect the new vehicle that is now in front of you. 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.



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



- Always be cautious for vehicles with higher height or vehicles carrying loads that sticks out from the back of the vehicle.

⚠ WARNING

When using the Smart Cruise Control take the following precautions:

- **If an emergency stop is necessary, you must apply the brakes. The vehicle cannot be stopped at every emergency situation by using the Smart Cruise Control system.**
- **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 Cruise Control 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 change 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.**
- **Always be aware of the selected speed and vehicle to vehicle distance. The driver should not solely rely on the system but always pay attention to driving conditions and control your vehicle speed.**
- **The Smart Cruise Control system may not recognize complex driving situations so always pay attention to driving conditions and control your vehicle speed.**
- **For your safety, please read the owner's manual before using the Smart Cruise Control system.**

Information

The Smart Cruise Control system may not operate temporarily due to:

- **Electrical interference**
- **Modifying the suspension**
- **Differences of tire abrasion or tire pressure**
- **Installing different type of tires**

Information

This device complies with Part 15 of the FCC rules.

Operation is subject to the following three conditions:

1. **This device may not cause harmful interference, and**
2. **This device must accept any interference received, including interference that may cause undesired operation.**
3. **Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the device.**

Information

Radio frequency radiation exposure information:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.

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

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

DECLARATION OF CONFORMITY (IF EQUIPPED)

The radio frequency components (Rear Corner Radar) complies:

OANATEL002

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1) this device may not cause harmful interference, and
(2) this device must accept any interference received, including interference that may cause undesired operation.

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

OANATEL003

LEADING VEHICLE DEPARTURE ALERT (IF EQUIPPED)

The Leading Vehicle Departure Alert system alerts the driver of the departure of the vehicle in front when the vehicle is stopped and the Smart Cruise Control (SCC) system is in activation.

System Setting and Activation

System setting

With the vehicle ON, the Leading Vehicle Departure Alert system turns on and gets ready to be activated when the 'vehicle Settings → Driver Assistance → Driving Assist → Leading vehicle departure alert' is selected selected in the AVN screen display. The system stops operation when the setting is deactivated. However, if the vehicle is turned off then on again, the system maintains the previous state.

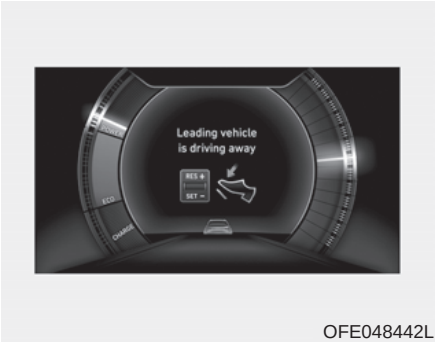
System standby



OFE058180L

While the Smart Cruise Control (SCC) system is in operation, your vehicle stops behind the vehicle in front when it stops. The message is displayed on the cluster within 3 seconds after the stop and the system will be in the standby position.

System activation



OFE048442L

If the driver does not take action for a certain period of time after the vehicle in front departs, the message is displayed on the cluster.

The vehicle departs automatically if the accelerator pedal is depressed or RES + or SET - toggle switch is pushed up or down when there is a vehicle in front.

The Smart Cruise Control (SCC) system is deactivated if the accelerator pedal is depressed or RES + or SET - toggle switch is pushed up or down when there is no vehicle in front.

⚠ WARNING

Always check the front of the vehicle and road conditions before departure.

SPECIAL DRIVING CONDITIONS

Hazardous Driving Conditions

When hazardous driving elements are encountered such as water, snow, ice, mud and sand, take the bellow suggestions:

- Drive cautiously and keep a longer braking distance.
- Avoid abrupt braking or steering.
- When your vehicle is stuck in snow, mud, or sand, turn off the vehicle. Remove the mud, snow or sand from around the front wheels and restart the vehicle. 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.

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 fuel cell power module compartment fire or other damage. Try to avoid spinning the wheels as much as possible to prevent overheating of either the tires or the vehicle. DO NOT allow the vehicle to spin the wheels above 56 km/h (35 mph).

Information

The ESC system (if equipped) 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 vehicle overheating, possible damage to the reduction gear and tire damage. See "Towing" in chapter 6.

Smooth Cornering

Avoid braking, 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 driver's 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" in chapter 7**.
- 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" in chapter 7.

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.

Information

Never over-inflate your tires above the maximum inflation pressure, as specified on your tires.

Coolant and high voltage battery

Be sure to check both the coolant level and the high voltage battery 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.**

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. During deceleration, use regenerative braking to the fullest extent. 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 use snow tires or 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.

i Information

Do not install studded tires without first checking local, state and municipal regulations for possible restrictions against their use.

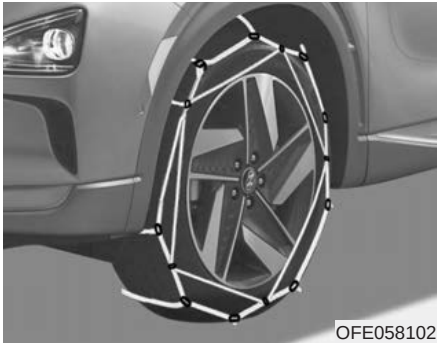
Air cleaner filter (FCEV)

The snow may block the air cleaner filter after driving the vehicle in heavy snow when the ambient temperature is below 50°F (10°C).

If a warning message "Air filter blocked. Check filter or see user manual" appears on LCD display after turning off the vehicle, remove the snow from the inside of the air cleaner filter and turn on and off the vehicle. If the warning message is displayed again, the exhaust pipe may be blocked. Then, move your vehicle indoors and leave it inside more than one day to defrost the exhaust pipe.

If the warning message is displayed again, have the vehicle checked by an authorized HYUNDAI dealer.

Tire chains


OFE058102

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. Do not mount tire chains on vehicles equipped with aluminum wheels; if unavoidable use a wire type chain. 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.

⚠ WARNING

The use of tire chains may adversely affect vehicle handling:

- **Drive less than 20 mph (30 km/h) 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 front 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, state and municipal regulations for possible restrictions against their use.**

Chain Installation

When installing tire chains, follow the manufacturer's instructions and mount them as tightly possible. Drive slowly (less than 20 mph (30 km/h)) 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 0.3~0.6 miles (0.5~1.0 km).**
- **Do not use tire chains on vehicles equipped with aluminum wheels. If unavoidable, use a wire type chain.**
- **Use wire chains less than 0.47 in (12 mm) thick to prevent damage to the chain's connection.**

Winter Precautions

Use high quality ethylene glycol coolant

Your vehicle is delivered with high quality ethylene glycol coolant in the cooling system. It is the only type of coolant that should be used because it helps prevent corrosion in the cooling system, lubricates the water pump and prevents freezing. Be sure to replace or replenish your coolant in accordance with the maintenance schedule in chapter 7. Before winter, have your coolant tested to assure that its freezing point is sufficient for the temperatures anticipated during the winter.

Use approved window washer anti-freeze in system

To keep the water in the window washer system from freezing, add an approved window washer anti-freeze solution in accordance with instructions on the container. Window washer anti-freeze is available from an authorized HYUNDAI dealer and most auto parts outlets. Do not use coolant or other types of anti-freeze as these may damage the paint finish.

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. If there is a risk the parking brake may freeze, apply it only temporarily while you shift to P (Park) and block the rear wheels so the car cannot 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 severe winter conditions where this may happen, you should periodically check underneath the car to be sure the movement of the front wheels and the steering components is not obstructed.

Don't place foreign objects or materials in the fuel cell power module compartment

Placement of foreign object or materials which prevent cooling of the vehicle, in the fuel cell power module compartment, may cause a failure. The manufacturer is not responsible for the damage caused by such placement.

To keep locks from freezing

To keep the locks from freezing, squirt an approved de-icer fluid or glycerine into the key opening. If a lock is covered with ice, squirt it with an approved de-icing fluid to remove the ice. If the lock is frozen internally, you may be able to thaw it out by using a heated key. Handle the heated key with care to avoid injury.

VEHICLE LOAD LIMIT

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 a full tank of fuel 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.

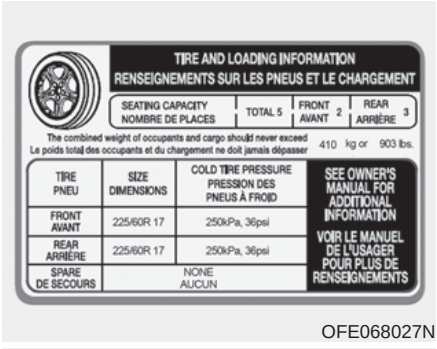
GVW (Gross Vehicle Weight)

This is the Base Curb Weight plus actual Cargo Weight plus passengers.

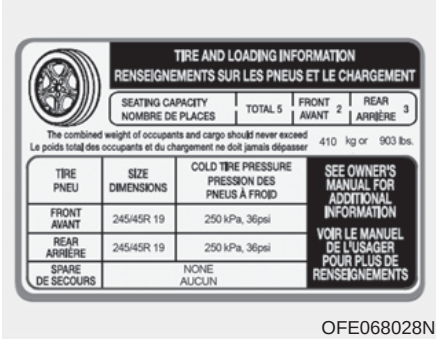
GVWR (Gross Vehicle Weight Rating)

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.

Tire Loading Information Label



OFE068027N



OFE068028N

The label located on the driver's door sill gives the original tire size, cold tire pressures recommended for your vehicle, the number of people that can be in your vehicle and vehicle capacity weight.

Vehicle capacity weight

903 lbs. (410 kg)

Vehicle capacity weight is the maximum combined weight of occupants and cargo. If your vehicle is equipped with a trailer, the combined weight includes the tongue load.

Seating capacity

Total : 5 persons
(Front seat : 2 persons,
Rear seat : 3 persons)

Seating capacity is the maximum number of occupants including a driver, your vehicle may carry. However, the seating capacity may be reduced based upon the weight of all of the occupants, and the weight of the cargo being carried or towed. Do not overload the vehicle as there is a limit to the total weight, or load limit including occupants and cargo, the vehicle can carry.

Towing capacity

We do not recommend using this vehicle for trailer towing.

Cargo capacity

The cargo capacity of your vehicle will increase or decrease depending on the weight and the number of occupants and the tongue load, if your vehicle is equipped with a trailer.

Steps for determining correct load limit

1. Locate the statement "The combined weight of occupants and cargo should never exceed XXX kg or XXX lbs." on your vehicle's placard.
2. Determine the combined weight of the driver and passengers that will be riding in your vehicle.
3. Subtract the combined weight of the driver and passengers from XXX kg or XXX lbs.
4. The resulting figure equals the available amount of cargo and luggage load capacity. For example, if the "XXX" amount equals 1400 lbs. and there will be five 150 lb passengers in your vehicle, the amount of available cargo and luggage load capacity is 650 lbs. (1400 - 750 (5 x 150) = 650 lbs.)
5. Determine the combined weight of luggage and cargo being loaded on the vehicle. That weight may not safely exceed the available cargo and luggage load capacity calculated in Step 4.

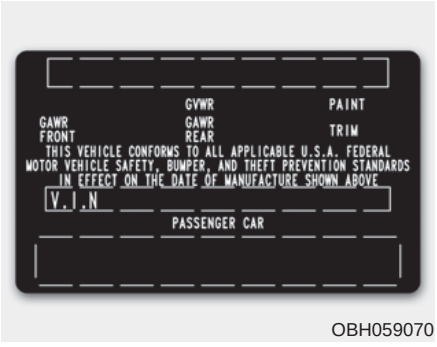
6. If your vehicle will be towing a trailer, load from your trailer will be transferred to your vehicle. Consult this manual to determine how this reduces the available cargo and luggage load capacity of your vehicle.

⚠ WARNING

Do not overload the vehicle as there is a limit to the total weight, or load limit, including occupants and cargo, the vehicle can carry. Overloading can shorten the life of the vehicle. If the GVWR or the GAWR is exceeded, parts on the vehicle can break, and it can change the handling of your vehicle. These could cause you to lose control and result in an accident.

Example 1	Vehicle Capacity	≥		+	
	Maximum Load (1400 lbs.) (635 kg)		Passenger Weight (150 lbs. × 2 = 300 lbs.) (68 kg × 2 = 136 kg)		Cargo Weight (1100 lbs.) (499 kg)
Example 2	Vehicle Capacity	≥		+	
	Maximum Load (1400 lbs.) (635 kg)		Passenger Weight (150 lbs. × 5 = 750 lbs.) (68 kg × 5 = 340 kg)		Cargo Weight (650 lbs.) (295 kg)
Example 3	Vehicle Capacity	≥		+	
	Maximum Load (1400 lbs.) (635 kg)		Passenger Weight (172 lbs. × 5 = 860 lbs.) (78 kg × 5 = 390 kg)		Cargo Weight (540 lbs.) (245 kg)

Certification label



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The certification label is located on the driver's door sill at the center pillar and shows the maximum allowable weight of the fully loaded vehicle. This is called the GVWR (Gross Vehicle Weight Rating). The GVWR includes the weight of the vehicle, all occupants, fuel and cargo.

This label also tells you the maximum weight that can be supported by the front and rear axles, called Gross Axle Weight Rating (GAWR).

The total weight of the vehicle, including all occupants, accessories, cargo, and trailer tongue load must not exceed the Gross Vehicle Weight Rating (GVWR) or the Gross Axle Weight Rating (GAWR). To find out the actual loads on your front and rear axles, you need to go to a weigh station and weigh your vehicle. Be sure to spread out your load equally on both sides of the centerline.

⚠ WARNING

Overloading

- **Never exceed the GVWR for your vehicle, the GAWR for either the front or rear axle and vehicle capacity weight. Exceeding these ratings can affect your vehicle's handling and braking ability, and cause an accident.**
- **Do not overload your vehicle. Overloading your vehicle can cause heat buildup in your vehicle's tires and possible tire failure, increased stopping distances and poor vehicle handling-all of which may result in a crash.**

NOTICE

Overloading your vehicle may cause damage. Repairs would not be covered by your warranty. Do not overload your vehicle.

⚠ WARNING

If you carry items inside your vehicle (e.g., suitcases, tools, packages, or anything else), they are moving as fast as the vehicle. If you have to stop or turn quickly, or if there is a crash, the items will keep going and can cause an injury if they strike the driver or a passenger.

- **Put items in the cargo area of your vehicle. Try to spread the weight evenly.**
- **Do not stack items, like suitcases, inside the vehicle above the tops of the seats.**
- **Do not leave an unsecured child restraint in your vehicle.**
- **When you carry something inside the vehicle, secure it.**

TRAILER TOWING

We do not recommend using this vehicle for trailer towing.

What to do in an emergency

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HAZARD WARNING FLASHER



OFE068001

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. The button is located in the center fascia panel. Both the left and right turn signal lights will flash simultaneously.

- The hazard warning flasher operates 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 an accident occurs

1. Stop the vehicle, shift gear to the P (Park) position, engage the parking brake, and turn the vehicle off.

   The flow of hydrogen into the fuel cell stack will be shut off to prevent the electricity from being generated.
2. Evacuate to the safety place.
3. Call emergency services for help and let them know the vehicle is a Fuel Cell Electric Vehicle.

If a fire occurs

1. Stop the vehicle, shift gear to the P(Park) position, engage the parking brake, and turn the vehicle off.

   The flow of hydrogen into the fuel cell stack will be shut off to prevent the electricity from being generated.
2. If the fire is small, which can be extinguished with fire extinguisher, use carbon dioxide extinguisher.

   You can also extinguish the fire with water when the vehicle power is turned off.

⚠ WARNING

Do not use water to extinguish a fire when the vehicle power is turned on. Serious electric shock may result.

If the fire is too big to be extinguished with the fire extinguisher, evacuate from the vehicle, call the fire department, and let them know the vehicle is a Fuel Cell Electric Vehicle. Do not come close to the vehicle until the fire is totally extinguished.

Emergency venting of hydrogen gas

If the temperature near the safety valve located at the rear under vehicle is over 230°F (110°C) caused by a fire or other reasons, the safety valve will open to vent hydrogen gas. Venting the hydrogen gas makes a loud noise because the venting speed is very fast. Stay well away from the vehicle. The discharge of hydrogen gas from the vehicle is flammable and could cause a fire.

If a submersion in water occurs

If your vehicle was flooded and has soaked carpeting or water on the flooring, you should not try to start the vehicle by pressing the POWER button.

Contact an authorized HYUNDAI dealer immediately.

If the vehicle stalls at a crossroad or crossing

If the vehicle stalls at a crossroad or crossing, set the gear in the N (Neutral) position and then push the vehicle to a safe place.

If you have a flat tire while driving

If a tire goes flat while you are driving:

1. 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 a loss of control. 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.
2. When the vehicle is stopped, turn on your emergency hazard flashers, set the parking brake and shift gear to the P(Park) position.
3. 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.

If the vehicle stalls while driving

1. Reduce your speed gradually, keeping a straight line. Move cautiously off the road to a safe place.
2. Turn on your emergency flashers.
3. Try to start the vehicle again. If your vehicle will not start, contact an authorized HYUNDAI dealer.

IF THE VEHICLE WILL NOT START

- Be sure the shift lever is in P (Park). The vehicle starts only when the shift lever is in P (Park).
- This vehicle does not have a regular 12V battery that needs periodic replacement. It is lithium ion polymer type integrated into the high voltage battery. The vehicle has a 12V battery protection system that cuts 12V battery from vehicle draw to prevent full discharge. If vehicle will not start, first try pressing the 12V Battery Reset switch (left side of the steering wheel near the fuel door open switch) to reconnect the 12V battery, but you must start vehicle within 15 seconds of pressing the 12V Battery Reset switch. After starting vehicle, operate the vehicle safely outdoors in ready mode stopped and/or drive it for 30 minutes total to charge the 12V battery fully.
- Check the fuel level and add fuel if necessary.
- Do not push or pull the vehicle to start it.

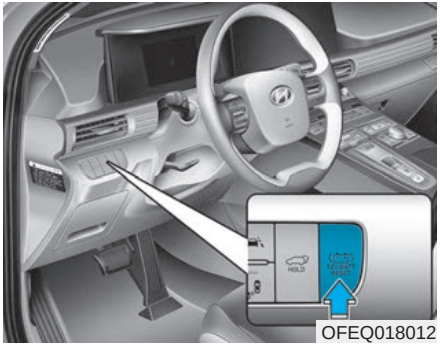
If the vehicle still does not start, call an authorized HYUNDAI dealer for assistance.

IF THE 12 VOLT BATTERY IS DISCHARGED

Before Jump Starting

This vehicle does not have a regular 12V battery that needs periodic replacement. It is lithium ion polymer type integrated into the high voltage battery. The vehicle has a 12V battery protection system that cuts 12V battery from vehicle draw to prevent full discharge.

Using the 12V Battery Reset Switch



1. Press the 12V Battery Reset switch to reconnect the 12V battery.
2. Start the vehicle within 15 seconds of pressing the 12V Battery Reset switch.
3. After starting vehicle (indicator on), move the vehicle outside and keep the vehicle ready ( ) mode more than 30 minutes safely to charge the 12V battery.

If you do not start the vehicle immediately after pressing the 12V Battery Reset switch, the power of 12V battery is automatically disconnected after few seconds to save the 12V battery from additional discharge. If the 12V battery is disconnected prior to starting the vehicle, press the 12V Battery Reset switch again and then immediately start the vehicle as explained.

Repeated use of the 12V Battery Reset switch without a sufficient vehicle ON cycle (30 Min+) may cause over discharge of the 12V battery, which will prevent the vehicle from starting. If the 12V battery is over discharged to a point that the reset does not work, try to jump-start the vehicle.

Information

After starting the vehicle (indicator on), the 12V battery is being charged whether the accelerator pedal is depressed or not.

The following items may need to be reset after the battery has been discharged or the battery has been disconnected. See chapter 3 or 4 for:

- Power Windows
- Trip Computer
- Climate Control System
- Clock
- Audio System
- Sunroof
- Driver Position Memory System

NOTICE

External power source using 12V battery

The use of external power accessories may reduce performance and function of the vehicle. Especially, the use of dash cameras may shut off the power of the vehicle prior to the dash camera's automatic shut-down.

If the power of the vehicle is shut off, start the vehicle as explained. (refer to "Using the 12V Battery Switch")

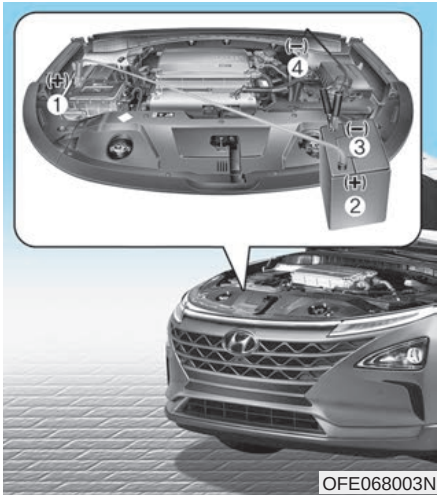
Jump Starting

In the event vehicle still does not have a functional 12V battery (check if interior lights will not turn on) then you can try a jump start using a 12V booster pack or jumper cables from another vehicle's 12V battery according to the following instructions.

⚠ CAUTION

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.

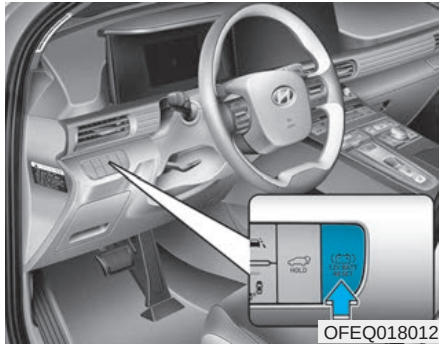
1. Position the vehicles close enough that the jumper cables will reach, but do not allow the vehicles to touch.
2. Avoid fans or any moving parts in the fuel cell power module compartment at all times, even when the vehicles are turned off.
3. Turn off all electrical devices such as radios, lights, air conditioning, etc. Put the vehicles in P (Park) and set the parking brake. Turn both vehicles OFF.



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4. 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).
5. Connect the other end of the jumper cable to the red, positive (+) battery/jumper terminal of the assisting vehicle (2).
6. Connect the second jumper cable to the black, negative (-) battery/chassis ground of the assisting vehicle (3).
7. 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.


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8. Press the 12V Battery Reset switch.
9. Start the engine of the assisting vehicle and let it run for a few minutes.
10. Start your vehicle as soon as possible. After starting vehicle (indicator on), operate the vehicle safely outdoors in ready mode stopped and/or drive it for 30 minutes total to charge the 12V battery fully.

If your vehicle will not start after a few attempts, it probably requires servicing. In this event please seek qualified assistance. If the cause of your battery discharging is not apparent, 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

The voltage range of the charger should be 13.3~14V and its current range should be less than 60A. (13.8V is recommended).

⚠ CAUTION

- **The use of an improper charger with a voltage and current range higher than specified may cause overheating and damage to the 12V battery.**
- **The use of an incorrect charger will lead to a power shut-off to save the 12V battery. Stop using the incorrect charger once the power of the vehicle is shut off.**

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.**

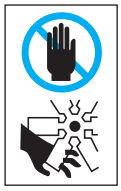
⚠ CAUTION

Do not jump start another vehicle with your hybrid vehicle. Jump starting another vehicle will damage the hybrid vehicle's 12 volt battery (lithium polymer type).

IF THE VEHICLE OVERHEATS

1. Pull off the road and stop as soon as it is safe to do so.
2. Shift to P (Park) and set the parking brake. If the air conditioning is on, turn it off.
3. If coolant is running out under the vehicle or steam is coming out from the hood, stop the vehicle. Do not open the hood until the coolant has stopped running or the steaming has stopped. If there is no visible loss of coolant and no steam, leave the vehicle running and check to be sure the vehicle cooling fan is operating. If the fan is not running, turn the vehicle off.

⚠ WARNING



While the vehicle is running, keep hands, clothing and tools away from the moving parts such as the cooling fan to prevent serious injury.

4. Check for coolant leaking from the radiator, hoses or under the vehicle. (If the air conditioning had been in use, it is normal for cold water to be draining from it when you stop.)
5. If coolant is leaking out, stop the vehicle immediately and call the nearest authorized HYUNDAI dealer for assistance.

⚠ WARNING



Your vehicle is equipped with a pressurized coolant reserve tank. NEVER remove the coolant reserve tank cap or the radiator drain plug while the radiator is HOT. Hot coolant and steam may blow out under pressure, causing serious injury.

Turn the vehicle off and wait until the vehicle cools down. Use extreme care when removing the coolant reserve tank cap. Wrap a towel or thick rag around it, and turn it counterclockwise slowly to release some of the pressure from the system. Step back while the pressure is released.

When you are sure all the pressure has been released, continue turning the cap counterclockwise to remove it.

6. If you cannot find the cause of the overheating, wait until the radiator temperature has returned to normal. Then, if coolant has been lost, carefully add coolant to the reservoir to bring the fluid level in the reservoir up to the halfway mark.
7. Proceed with caution, keeping alert for further signs of overheating. If overheating happens again, call an authorized HYUNDAI dealer for assistance.

⚠ CAUTION

Serious loss of coolant indicates a leak in the cooling system and should be checked as soon as possible by an authorized HYUNDAI dealer.



OFE068004



OFE068005L

(1) Low Tire Pressure / TPMS Malfunction Indicator Lamp

(2) Low Tire Pressure / Tire Pressure Monitor / TPMS Malfunction Display (shown on the cluster LCD display)

Check Tire Pressure



OFE068006L

- You can check the tire pressure in the information mode on the cluster.

  Refer to the "LCD Display Mode" section in chapter 3.

- A "Drive to display" message will appear for the first few minutes of driving after initial vehicle start up.

  If the tire pressure is not displayed after a few minutes of driving, check the tire pressures.

- The displayed tire pressure values may differ from those measured with a tire pressure gage.
- You can change the tire pressure unit in the General Settings mode on the AVN.
  - **psi, kpa, bar (For more details, refer to the separately supplied Navigation manual.)**

Tire Pressure Monitoring System

⚠ WARNING

Over-inflation or under-inflation can reduce tire life, adversely affect vehicle handling, and lead to sudden tire failure that may cause loss of vehicle control resulting in 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, have the system checked by an authorized HYUNDAI dealer.

1. **The Low Tire Pressure TPMS Malfunction Indicator does not illuminate for 3 seconds when the POWER button is placed to the ON position or vehicle is ON (indicator ON).**
2. **The TPMS Malfunction Indicator remains illuminated after blinking for approximately 1 minute.**
3. **The Low Tire Pressure LCD display remains illuminated**

Low Tire Pressure Telltale



OFE068005L

Low Tire Pressure LCD Display with Position Indicator

When the tire pressure monitoring system warning indicators are illuminated and the warning message is displayed on the cluster LCD display, one or more of your tires is significantly under-inflated. The LCD position indicator will indicate which tire is significantly under-inflated by illuminating the corresponding position light.

If any of your tire pressures are indicated as being low, 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.

The Low Tire Pressure LCD position indicator will remain on and the TPMS Malfunction Indicator may blink for one minute and then remain illuminated until you have the low pressure tire repaired and replaced on the vehicle.

⚠ CAUTION

In winter or cold weather, the Low Tire Pressure Telltale may be illuminated if the tire pressure was adjusted to the recommended tire inflation pressure in warm weather. It does not mean your TPMS is malfunctioning because the decreased temperature leads to a proportional lowering of tire pressure.

When you drive your vehicle from a warm area to a cold area or from a cold area to a warm area, or the outside temperature is greatly higher or lower, you should check the tire inflation pressure and adjust the tires to the recommended tire inflation pressure.

⚠ WARNING

Low pressure damage

Significantly low tire pressure makes the vehicle unstable and can contribute to loss of vehicle control and increased braking distances.

Continued driving on low pressure tires can cause the tires to overheat and fail.



TPMS Malfunction Indicator

The TPMS Malfunction Indicator will illuminate after it blinks for approximately one minute when there is a problem with the Tire Pressure Monitoring System.

Have the system checked by an authorized HYUNDAI dealer as soon as possible.

NOTICE

If there is a malfunction with the TPMS, the individual tire pressures in the cluster LCD display will not be available. Have the system checked by an authorized HYUNDAI dealer as soon as possible.

NOTICE

The TPMS Malfunction Indicator may illuminate after blinking for one minute if the vehicle is near electric power supply cables or radio transmitters such as police stations, government and public offices, broadcasting stations, military installations, airports, transmitting towers, etc.

Additionally, the TPMS Malfunction Indicator may illuminate if snow chains are used or 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 LCD position indicator will come on. Have the flat tire repaired by an authorized HYUNDAI dealer as soon as possible.

⚠ CAUTION

Never use a puncture-repairing agent not approved by HYUNDAI dealer to repair and/or inflate a low pressure tire. Tire sealant not approved by HYUNDAI dealer may damage the tire pressure sensor.

Once the original tire equipped with a tire pressure monitoring sensor is reinflated to the recommended pressure and reinstalled on the vehicle, the Low Tire Pressure LCD position indicator and TPMS Malfunction Indicator will go off within a few minutes of driving.

If the indicators do not disappear after a few minutes, please visit an authorized HYUNDAI dealer.

Each wheel is equipped with a tire pressure sensor mounted inside the tire behind the valve stem. 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 identify a tire with low pressure by simply looking at it. Always use a good quality tire pressure gage to measure the tire's inflation pressure. 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 mile (1.6 km) 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.

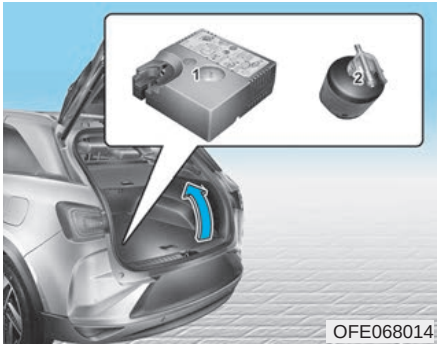
ⓘ Information

This device complies with Part 15 of the FCC rules.

Operation is subject to the following three conditions:

1. **This device may not cause harmful interference.**
2. **This device must accept any interference received, including interference that may cause undesired operation.**
3. **Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.**

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 and the tire should be inspected by an authorized HYUNDAI dealer as soon as possible.

⚠ CAUTION

One sealant bottle for one tire

When two or more tires are flat, do not use the tire mobility kit because the supported one sealant of Tire Mobility Kit is only used for one flat tire.

⚠ WARNING

Tire wall

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

Temporary fix

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 120 miles (200 km)) at a max. speed of (50 mph (80 km/h)) 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".

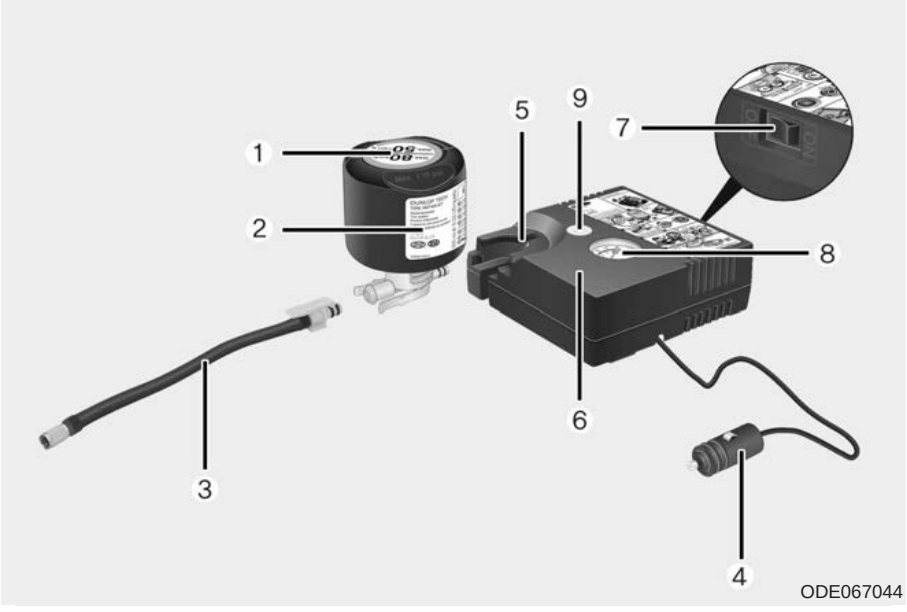
Notes on the safe use of the Tire Mobility Kit

- 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 0.16 in. (4 mm).

  Please contact the nearest HYUNDAI dealership if the tire cannot be made roadworthy with the Tire Mobility Kit.
- 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 ON (indicator ON). Otherwise operating the compressor may eventually drain the car battery.
- Never leave the Tire Mobility Kit unattended while it is being used.
- Do not leave the compressor running for more than 10 minutes at a time or it may overheat.

- Do not use the Tire Mobility Kit if the ambient temperature is below -22°F (-30°C).
- 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 ofwater. However, never give anythingto an unconscious person and seek medical attention immediately.
- Long time exposure to the sealant-may cause damage to bodily tissue such as kidney, etc.

Components of the Tire Mobility Kit



1. Speed restriction label
2. Sealant bottle and label with speed restriction
3. Sealant/Air filling hose
4. Connectors and cable for 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 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

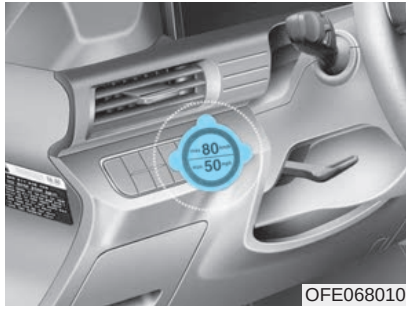
Do not use the tire sealant after the sealant has expired (i.e. pasted the expiration date on the sealant container). This can increase the risk of tire failure.

⚠ WARNING

- **Keep out of reach of children.**
- **Avoid contact with eyes.**
- **Do not swallow.**

Using the Tire Mobility Kit

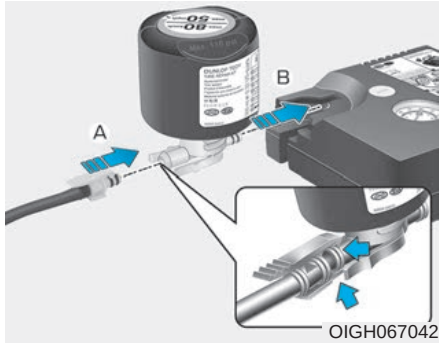
⚠ CAUTION



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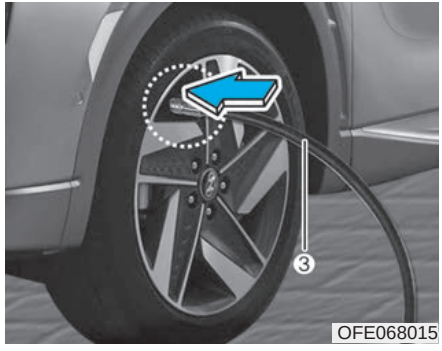
Detach the speed restriction label (1) from the sealant bottle (2), and place it in a highly visible place inside the vehicle such as on the steering wheel to remind the driver not to drive too fast.

1. Shake the sealant bottle (2).



OIGH067042

2. Connect the filling hose (3) to the sealant bottle (2) in the direction of (A) and connect the sealant bottle to the compressor (5) 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.
6. With the vehicle ON (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 8). The inflation pressure of the tire after filling is unimportant and will be checked/corrected later.

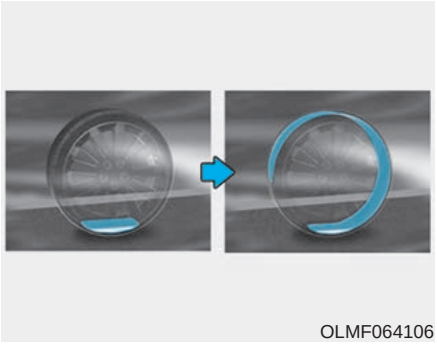
   Be careful not to overinflate the tire and stay away from the tire when filling it.

⚠ CAUTION

Do not attempt to drive your vehicle if the tire pressure is below 29 psi (200 kpa). 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.


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Distributing the sealant

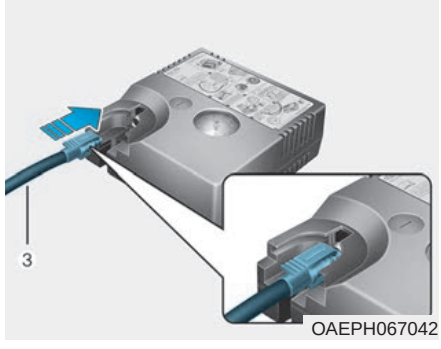
9. Immediately drive approximately 4~6 miles (7~10 km or about 10 minutes) to evenly distribute the sealant in the tire.

Do not exceed a speed of 50 mph (80 km/h). If possible, do not fall below a speed of 12 mph (20 km/h).

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.

Checking the tire inflation pressure

1. After driving approximately 4~6 miles (7~10 km or about 10 minutes), stop at a safe location.



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2. Connect the filling hose (3) directly into the compressor.



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3. Connect the other end of the filling hose (3) directly into the tire valve.
4. Plug the compressor power cord (4) into the vehicle power outlet.

5. Adjust the tire inflation pressure to the recommended tire inflation.

   With the vehicle ON (indicator ON), 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.

Information

The pressure gauge may show higher than actual reading when the compressor is running. To get an accurate tire pressure, the compressor needs to be turned off.

⚠ CAUTION

When you use the Tire Mobility Kit including sealant not approved by HYUNDAI, the tire pressure sensors may be damaged by sealant.

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 at an authorized dealer.

⚠ WARNING

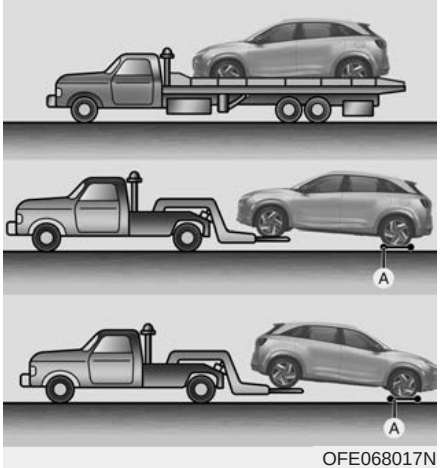
The tire inflation pressure must be at least 32 psi (220 kPa). If it is not, do not continue driving. Call for road side service or towing.

Information

When reinstalling the repaired or replaced tire and wheel on the vehicle, tighten the wheel lug nut to 79~94 lbf·ft (11~13 kgf·m).

TOWING

Towing Service



OFE068017N

[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.

It is acceptable to tow the vehicle with the rear wheels on the ground (without dollies) and the front wheels off the ground. If any of the loaded wheels or suspension components are damaged or the vehicle is being towed with the front wheels on the ground, use a towing dolly under the front wheels.

When being towed by a commercial tow truck and wheel dollies are not used, the front of the vehicle should always be lifted, not the rear.

NOTICE

- **Do not tow the vehicle with the front wheels on the ground as this may cause damage to the vehicle.**



OFE068026

- **Do not tow with sling-type equipment. Use a wheel lift or flatbed equipment.**



OFE068025

⚠ WARNING

If your vehicle is equipped with a rollover sensor, place the POWER button in the LOCK/OFF or ACC position when the vehicle is being towed. The side impact and curtain air bag may deploy if the sensor detects the situation as a rollover.

When towing your vehicle in an emergency without wheel dollies:

1. Place the POWER button in the ACC position.
2. Place the shift button in N (Neutral).
3. Release the parking brake.

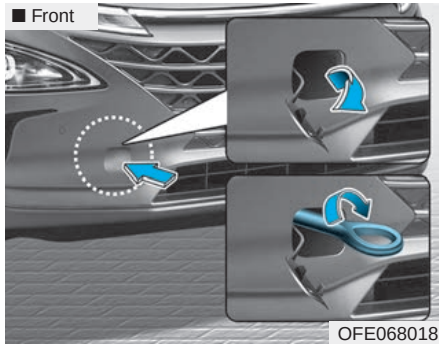
⚠ CAUTION

Failure to place the shift button in N (Neutral) when being towed with the front wheels on the ground can cause internal damage to the vehicle.

Removable Towing Hook

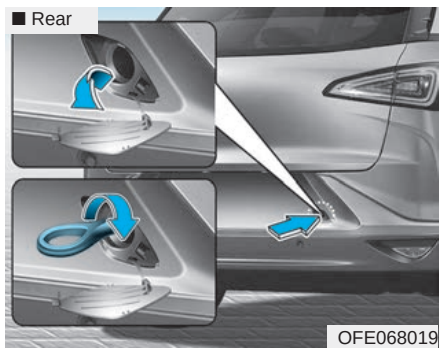
1. Open the liftgate, and remove the towing hook from the tool case.

■ Front



OFE068018

■ Rear

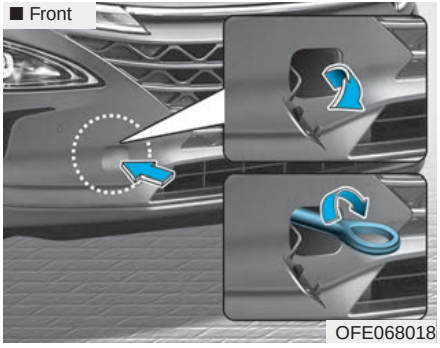


OFE068019

2. Remove the hole cover by pressing the lower part of the cover on the front or rear bumper.
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.

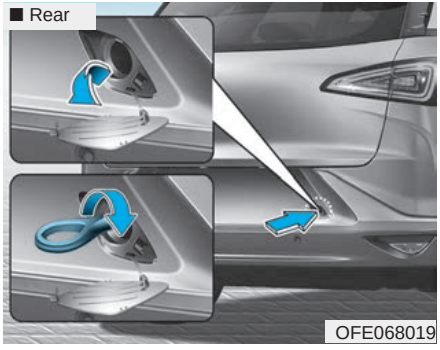
Emergency Towing

■ Front



OFE068018

■ Rear



OFE068019

If towing is necessary, we recommend you have it done by an authorized HYUNDAI dealer or a commercial tow truck service.

If towing service is not available in an emergency, your vehicle may be temporarily towed using a cable or chain secured to the emergency towing hook at the front (or rear) of the vehicle.

Use extreme caution when towing the vehicle with a cable or chain. A driver must be in the vehicle to steer it and operate the brakes.

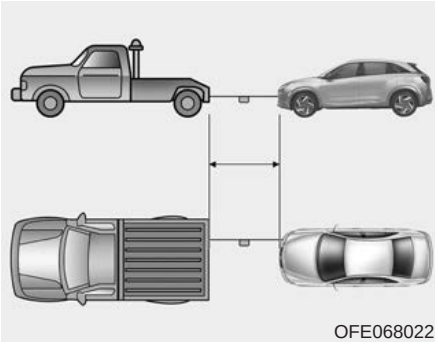
Towing in this manner may be done only on hard-surfaced roads for a short distance and at low speeds. Also, the wheels, axles, power train, steering and brakes must all be in good condition.

Always follow these emergency towing precautions:

- While depressing the brake pedal shift to the N (Neutral) position and turn the vehicle off. The POWER button will be in the ACC position.
- Release the parking brake.
- Depress the brake pedal with more force than normal since you will have reduced braking performance.
- More steering effort will be required because the power steering system will be disabled.
- Use a vehicle heavier than your own to tow your vehicle.
- The drivers of both vehicles should communicate with each other frequently.
- Before emergency towing, check that the hook is not broken or damaged.
- Fasten the towing cable or chain securely to the hook.
- Do not jerk the hook. Apply steady and even force.

⚠ CAUTION

The driver must be in the vehicle for steering and braking operations when the vehicle is being towed. Passengers other than the driver must not be in the vehicle.



OFE068022

- Use a towing cable or chain less than 16 feet (5 m) long. Attach a white or red cloth (about 12 inch (30 cm) wide) in the middle of the cable or chain for easy visibility.
- Drive carefully so the towing cable or chain remains tight during towing.
- Before towing, check the reduction gear for fluid leaks under your vehicle. If the reduction gear is leaking, flatbed equipment or a towing dolly must be used.

NOTICE

Accelerate or decelerate the vehicle in a slow and gradual manner while maintaining tension on the tow rope or chain to start or drive the vehicle, otherwise tow hooks and the vehicle may be damaged.

NOTICE

To avoid damage to your vehicle and vehicle components when towing:

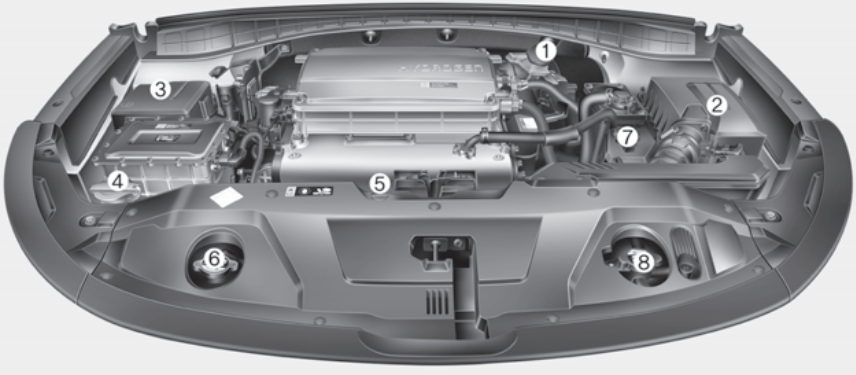
- **Always pull straight ahead when using the towing hooks. Do not pull from the side or at a vertical angle.**
- **Do not use the towing hooks to pull a vehicle out of mud, sand or other conditions from which the vehicle cannot be driven out under its own power.**
- **Limit the vehicle speed to 10 mph (15 km/h) and drive less than 1 mile (1.5 km) when towing to avoid serious damage to the reduction gear.**

Maintenance

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FUEL CELL POWER MODULE COMPARTMENT



1. Brake fluid reservoir
2. Air cleaner
3. Fuse box
4. Windshield washer fluid reservoir
5. Device cooling coolant reservoir
6. Traction motor radiator cap
7. Stack cooling coolant reservoir
8. Fuel cell stack radiator cap

The actual fuel cell power module compartment in the vehicle may differ from the illustration.

OFE078001

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.

⚠ WARNING

High voltage caution

Do not disassemble or perform maintenance on the fuel cell system unless you are qualified. The fuel cell system can be highly dangerous since there are many high voltage parts inside even if when power is off.

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 Owner's Handbook & Warranty Information booklet.

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. Several procedures can be done only by an authorized HYUNDAI dealer with special tools.

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.

Certain modifications may also be in violation of regulations established by the U.S. Department of Transportation and other federal or state agencies.

OWNER MAINTENANCE

NOTICE

Improper owner maintenance during the warranty period may affect warranty coverage. For details, read the separate Owner's Handbook & Warranty Information booklet provided with the vehicle. If you're unsure about any service or maintenance procedure, have it done by an authorized HYUNDAI dealer.

⚠ 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, have it done by an authorized HYUNDAI dealer.

ALWAYS follow these precautions for performing maintenance work:

- **Park your vehicle on level ground, shift to the P (Park) position, apply the parking brake, and place the POWER button in 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 related parts.**

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.

Owner maintenance schedule

When you stop for fuel:

- Check for both fuel cell stack and Device cooling coolant level in coolant reservoir.
- Check the windshield washer fluid level.
- Look for low or under-inflated tires.

⚠ WARNING

Be careful when checking the coolant level when the fuel cell power module is hot. Scalding hot coolant and steam may blow out under pressure. This could cause burns or other serious injury.

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 reduction gear occurs, check the reduction gear fluid level.
- Check the reduction 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 brake lights, turn signals and hazard warning flashers.
- Check the inflation pressures of all 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 Fall)

- Check radiator, heater and air conditioning hoses for leaks or damage.
- Check windshield washer spray and wiper operation. Clean wiper blades with 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.
- Lubricate door checker.
- Check the air conditioning system.
- Inspect and lubricate reduction gear linkage and controls.
- 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 (10 miles) in freezing temperature
- Low speed driving for long distances
- 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 condition
- Driving in heavy traffic area
- Driving on uphill, downhill, or mountain road repeatedly
- Towing a trailer or using a camper, or roof rack
- Driving as a patrol car, taxi, other commercial use of vehicle towing
- Driving over 170 km/h (106 miles/h)
- 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

Maintenance Intervals / Maintenance Item	Months	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180
	Miles×1,000	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90
	Km×1,000	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150
Hydrogen system (Check the hydrogen leakage)		Inspect every 6,000 miles (10,000 km) or 24 months														
Air cleaner filter		Replace every at 12,000 (20,000 km) miles														
Device cooling coolant		At first, replace at 120,000 miles (200,000 km) or 10 years : Thereafter, replace every 30,000 miles (48,000 km) or 24 months														
Stack cooling coolant		Replace every at 36,000 miles (60,000 km) or 36 months														
Ion filter		Replace every at 36,000 miles (60,000 km) or 36 months														
Reduction gear		No check, No service required														
Air conditioner refrigerant/ compressor		I	I	I	I	I	I	I	I	I	I	I	I	I	I	I
Brake lines, hoses and connections		I	I	I	I	I	I	I	I	I	I	I	I	I	I	I
Brake discs and pads		I	I	I	I	I	I	I	I	I	I	I	I	I	I	I
Driveshaft and boots			I		I		I		I		I		I		I	
Front suspension ball joints		I	I	I	I	I	I	I	I	I	I	I	I	I	I	I

I : Inspect and if necessary, adjust, correct, clean or replace.

R : Replace

Normal Maintenance Schedule (Cont.)

Maintenance Intervals / Maintenance Item																
	Months	**12**	**24**	**36**	**48**	**60**	**72**	**84**	**96**	**108**	**120**	**132**	**144**	**156**	**168**	**180**
	Miles×1,000	**6**	**12**	**18**	**24**	**30**	**36**	**42**	**48**	**54**	**60**	**66**	**72**	**78**	**84**	**90**
	Km×1,000	**10**	**20**	**30**	**40**	**50**	**60**	**70**	**80**	**90**	**100**	**110**	**120**	**130**	**140**	**150**
Parking brake		I	I	I	I	I	I	I	I	I	I	I	I	I	I	I
Steering gear rack, linkage and boots		I	I	I	I	I	I	I	I	I	I	I	I	I	I	I
Tire (pressure & tread wear)		I	I	I	I	I	I	I	I	I	I	I	I	I	I	I
Battery condition		I	I	I	I	I	I	I	I	I	I	I	I	I	I	I
Brake fluid		Inspect every 15,000 miles (24,000 km) or 12 months, Replace every 60,000 miles (96,000 km) or 48 months														
Climate control air filter		R	R	R	R	R	R	R	R	R	R	R	R	R	R	R

I : Inspect and if necessary, adjust, correct, clean or replace.

R : Replace

Maintenance Under Severe Usage Conditions

The following items must be serviced more frequently on cars normally used under severe driving conditions. Refer to the chart below for the appropriate maintenance intervals.

R : Replace I : Inspect and, after inspection, clean, adjust, repair or replace if necessary

Maintenance item	Maintenance operation	Maintenance intervals	Driving condition
Hydrogen system (Check the hydrogen leakage)	I	Inspect more frequently depending on the condition	C, D, F, G, J, L
Air cleaner filter	I	Inspect more frequently depending on the condition	C, D, E
Device cooling coolant	R	Replace more frequently depending on the condition	C, D, E, F, J, K, L
Stack cooling coolant	R	Replace more frequently depending on the condition	C, D, F, G, L
Ion filter	R	Replace more frequently depending on the condition	C, D, F, G, L
Reduction gear fluid	R	72,000 miles (120,000 km)	C, F, G, I, J
Air conditioner refrigerant/compressor	I	Inspect more frequently depending on the condition	C, D, F, G, L
Disc brakes and pads, calipers and rotors	I	Inspect more frequently depending on the condition	C, D, E, G, H

Maintenance item	Maintenance operation	Maintenance intervals	Driving condition
Driveshaft and boots	I	Inspect more frequently depending on the condition	C, D, E, F, G, H, I, J
Front suspension ball joints	I	Inspect more frequently depending on the condition	C, D, E, F, G
Parking brake	I	Inspect more frequently depending on the condition	C, D, G, H
Steering gear rack, linkage and boots	I	Inspect more frequently depending on the condition	C, D, E, F, G
Climate control air filter	R	Replace more frequently depending on the condition	C, E

Severe driving conditions

A - Repeatedly driving short distances of less than 5 miles (8 km) in normal temperature or less than 10 miles (16 km) in freezing temperature
B - Extensive low speed driving for long distances
C - Driving on rough, dusty, muddy, unpaved, graveled or salt-spread roads
D - Driving in areas using salt or other corrosive materials or in very cold weather
E - Driving in sandy areas
F - Driving in heavy traffic area over 90°F (32°C)
G - Driving on uphill, downhill, or mountain road
H - Towing a Trailer, or using a camper, or roof rack
I - Driving as a patrol car, taxi, other commercial use or vehicle towing
J - Driving over 106 mph (170 km/h)
K - 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

Inspect the reduction gear fluid according to 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 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 3 or DOT 4 specification.

Brake Discs, Pads, Calipers and Rotors

Check the pads for excessive wear, discs for run out and wear, and calipers for fluid leakage.

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

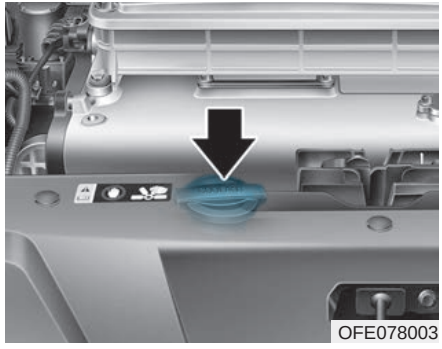
Check the air conditioning lines and connections for leakage and damage.

DEVICE COOLING COOLANT

The high-pressure cooling system has a reservoir filled with year-round antifreeze coolant. The reservoir is filled at the factory.

Check the antifreeze protection and coolant level at least once a year, at the beginning of the winter season and before traveling to a colder climate.

Checking the Coolant Level


OFE078003

Check the condition and connections of all cooling system hoses and heater hoses. Replace any swollen or deteriorated hoses.

The coolant level should be filled between the MAX and the MIN marks on the rear side of the coolant reservoir when the parts in the fuel cell power module compartment is cool.

If the coolant level is low, add enough distilled (deionized) water to bring the level to the MAX mark, but do not overfill. If frequent additions are required, you see an authorized HYUNDAI dealer for a cooling system inspection.

Recommended coolant

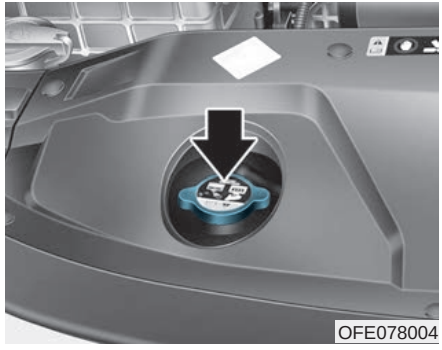
- When adding coolant, use only distilled (deionized) water for your vehicle and never mix hard water in the coolant filled at the factory.
- An improper coolant mixture can result in severe malfunction or electric devices damage.
- Do not use alcohol or methanol coolant or mix them with the specified coolant.
- Do not use a solution that contains more than 60% antifreeze or less than 35% antifreeze, which would reduce the effectiveness of the solution.

For mixing percentage, refer to the following table:

Ambient Temperature	Mixture Percentage (volume)	
	Antifreeze	Water
5°F (-15°C)	35	65
-13°F (-25°C)	40	60
-31°F (-35°C)	50	50
-49°F (-45°C)	60	40

Information

If in doubt about the mix ratio, a 50% water and 50% antifreeze mix is the easiest to mix together as it will be the same quantity of each. It is suitable to use for most temperature ranges of - 31°F and higher.


OFE078004

⚠ WARNING



Never remove the radiator cap or the drain plug while the radiator is hot. Hot coolant and steam may blow out under pressure, causing serious injury.

Turn the vehicle off and wait until the parts in the fuel cell power module compartment cools down. Use extreme care when removing the radiator cap. Wrap a thick towel around it, and turn it counterclockwise slowly to the first stop. Step back while the pressure is released from the cooling system. When you are sure all the pressure has been released, press down on the cap, using a thick towel, and continue turning counterclockwise to remove it.

⚠ 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 coolant temperature, refrigerant pressure and vehicle speed. As the coolant temperature decreases, the electric motor will automatically shut off. This is a normal condition.

Changing Coolant

Have coolant changed by an authorized HYUNDAI dealer according to the Maintenance Schedule at the beginning of this chapter.

⚠ WARNING

Do not use coolant or antifreeze in the washer fluid reservoir.

Coolant can severely obscure visibility when sprayed on the windshield and may cause loss of vehicle control resulting in an accident.

Coolant may also cause damage to paint and body trim.

NOTICE

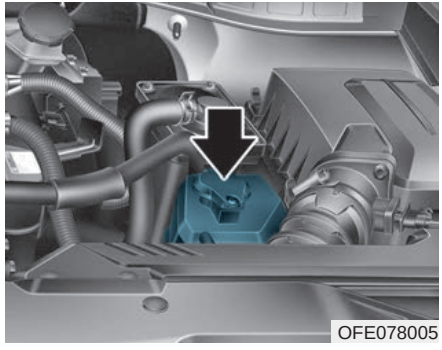
To prevent damage to parts in the fuel cell power module compartment, put a thick towel around the coolant cap before refilling the coolant to prevent the coolant from overflowing into parts in the fuel cell power module compartment.

STACK COOLING COOLANT

The high-pressure cooling system has a reservoir filled with year-round antifreeze coolant. The reservoir is filled at the factory.

Check the antifreeze protection and coolant level at least once a year, at the beginning of the winter season and before traveling to a colder climate.

Checking the Coolant Level


OFE078005

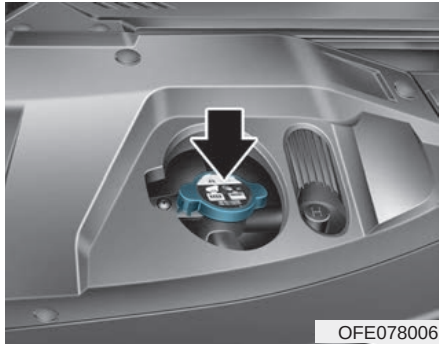
Check the condition and connections of all cooling system hoses and heater hoses. Replace any swollen or deteriorated hoses.
When replacing any part of the cooling system there may be loss of coolant. In that case, fill with an exclusive coolant for the fuel cell.
When replacing the ion filter cartridge, replace the whole stack coolant.
The coolant level should be filled between F (MAX) and L (MIN) marks on the side of the coolant reservoir when the fuel cell power module is cool.

If the stack cooling coolant level is low, add enough exclusive coolant for fuel cell stack to provide protection against freezing and corrosion in the authorized HYUNDAI dealer.

In addition, whenever replacing the ion filter cartridge, add enough exclusive coolant for fuel cell stack.

Stack cooling coolant

- When adding stack cooling coolant, use only exclusive coolant for fuel cell stack in authorized HYUNDAI dealer and never mix any water or liquid.
- An improper coolant mixture can result in severe malfunction or electric devices damage.
- If the vehicle is damaged by adding unspecified liquid except exclusive coolant for fuel cell stack, it will not be covered by the warranty.


OFE078006

⚠ WARNING



Never remove the radiator cap or the drain plug while the radiator is hot. Hot coolant and steam may blow out under pressure, causing serious injury.

Turn the vehicle off and wait until the parts in the fuel cell power module compartment cools down. Use extreme care when removing the cap. Wrap a thick towel around it, and turn it counterclockwise slowly to the first stop. Step back while the pressure is released from the cooling system. When you are sure all the pressure has been released, press down on the cap, using a thick towel, and continue turning counterclockwise to remove it.

⚠ 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 coolant temperature, refrigerant pressure and vehicle speed. As the coolant temperature decreases, the electric motor will automatically shut off. This is a normal condition.

Changing Coolant

For the fuel cell stack, an exclusive coolant must be used . When changing the fuel cell stack coolant, we recommend that coolant be changed by an authorized HYUNDAI dealer according to the Maintenance Schedule at the beginning of this chapter.

⚠ WARNING

Do not use coolant or antifreeze in the washer fluid reservoir.

Coolant can severely obscure visibility when sprayed on the windshield and may cause loss of vehicle control resulting in an accident.

Coolant may also cause damage to paint and body trim.

NOTICE

To prevent damage to parts in the fuel cell power module compartment, put a thick towel around the coolant cap before refilling the coolant to prevent the coolant from overflowing into parts in the fuel cell power module compartment.

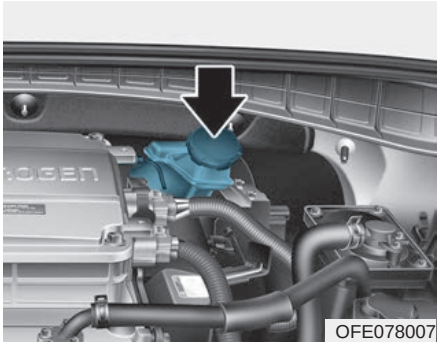
⚠ CAUTION

Do not mix-up the caps of device cooling coolant and stack cooling coolant because the fluid material is different. If the cap is mixed, the fuel cell system may be damage.

We recommend that you consult an authorized HYUNDAI dealer.

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 mileage. This is a normal condition associated with the wear of the brake linings. If the fluid level is excessively low, have the brake system 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. Have the vehicle inspected by an authorized HYUNDAI dealer.

⚠ WARNING

Do not allow brake fluid to come in contact with your eyes. If brake fluid comes in contact with your eyes, flush your eyes with clean water for at least 15 minutes and get immediate medical attention.

NOTICE

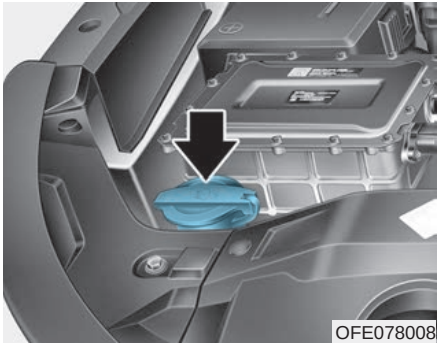
- **Do not allow brake fluid to contact the vehicle's body paint, as paint damage will result.**
- **Brake fluid, which has been exposed to open air for an extended time should NEVER be used as its quality cannot be guaranteed. It should be disposed of properly.**
- **Do not use the wrong kind of brake fluid. A few drops of mineral based oil, such as engine oil, in your brake system can damage brake system parts.**

i Information

Use only the specified brake fluid (refer to "Recommended Lubricants and Capacities" in chapter 8).

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:

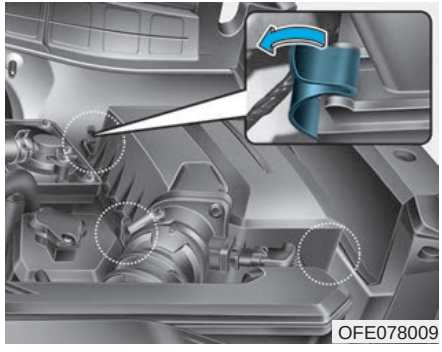
- **Do not use coolant or antifreeze in the washer fluid reservoir.**

  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.**

AIR CLEANER

Filter Replacement

Faulty air cleaner filter has a direct influence on reduction of the stack output, etc. Replace the filter according to the maintenance schedule.



1. Loosen the air cleaner cover attaching clips and open the cover.



2. Wipe the inside of the air cleaner.
3. Replace the air cleaner filter.
4. Lock the cover with the cover attaching clips.
5. Check that the cover is firmly installed.

Information

If the vehicle is operated in extremely dusty or sandy areas, replace the air cleaner filter more often than the usual recommended intervals (refer to "Maintenance Under Severe Usage Conditions" in this chapter).

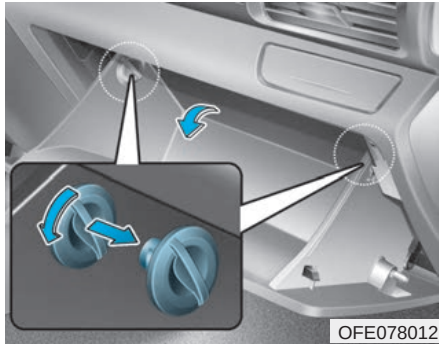
⚠ CAUTION

- **Do not drive with the air cleaner filter removed. This will result in excessive wear.**
- **When removing the air cleaner filter, be careful that dust or dirt does not enter the air intake, or damage may result.**
- **Use HYUNDAI genuine parts, use of non-genuine parts could damage the air flow sensor.**

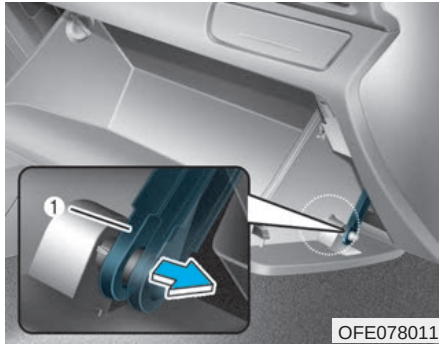
CLIMATE CONTROL AIR FILTER

Filter Inspection

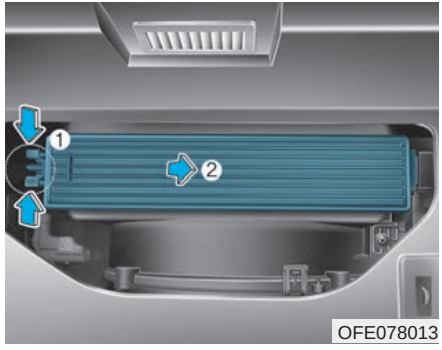
The climate control air filter should be replaced according to the Maintenance Schedule. If the vehicle is operated in severely air-polluted cities or on dusty rough roads for a long period, it should be inspected more frequently and replaced earlier. When you replace the climate control air filter, replace it performing the following procedure, and be careful to avoid damaging other components.



1. With the glove box open, remove the stoppers on both sides to allow the glove box to hang freely on the hinges.

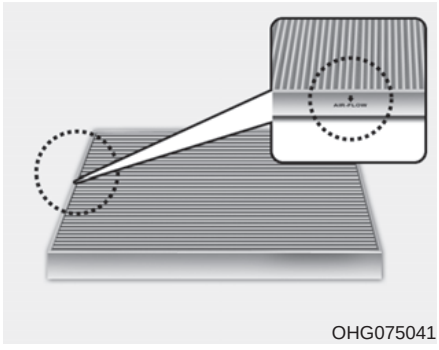


2. Remove the support rod (1).



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3. Press and hold the lock (1) on left side of the cover.
4. Pull out (2) the cover.


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5. Replace the climate control air filter.
6. Reassemble in the reverse order of disassembly.

NOTICE

Install a new climate control air filter in the correct direction with the arrow symbol (↓) facing downwards. Otherwise, the climate control effects may decrease, possibly with a noise.

WIPER BLADES

Blade Inspection

Contamination of either the windshield or the wiper blades with foreign matter can reduce the effectiveness of the windshield wiper functionality. 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 clean cloth dampened with washer fluid.

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.**

Information

Commercial hot waxes applied by automatic car washes have been known to make the windshield difficult to clean.

Blade Replacement

When the wipers no longer clean adequately, the blades may be worn or cracked, and require replacement.

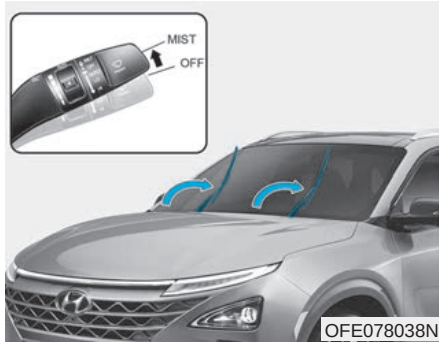
NOTICE

To prevent damage to the wiper arms or other components, do not attempt to move the wipers manually.

NOTICE

The use of a non-specified wiper blade could result in wiper malfunction and failure.

Front windshield wiper service positions



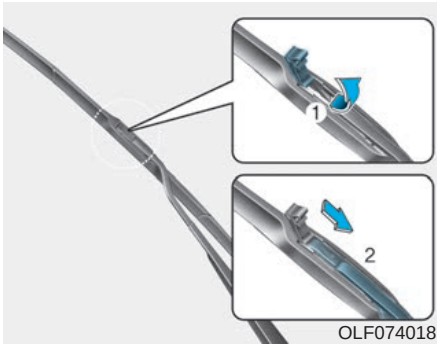
This vehicle has a "hidden" wiper design which means that the wipers cannot be lifted when they are in their bottom resting position.

1. Within 20 seconds of turning off the vehicle, lift and hold the wiper lever up to the MIST position for about 2 seconds until the wipers move to the top wipe position.
2. At this time you can lift the wipers off the windshield.
3. Gently put the wipers back down onto the windshield.
4. Turn the wipers to any ON position to return the wipers to the bottom resting position.

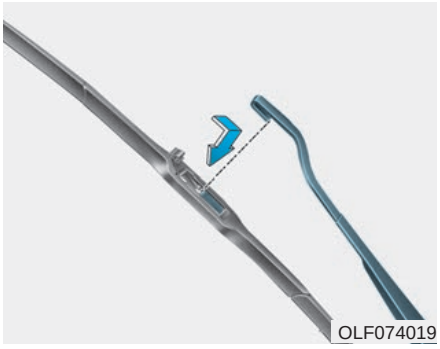
Front windshield wiper blade replacement



1. Raise the wiper arm.



2. Lift up the wiper blade clip. Then pull down the blade assembly and remove it.



3. Install the new blade assembly in the reverse order of removal.
4. Return the wiper arm on the windshield.

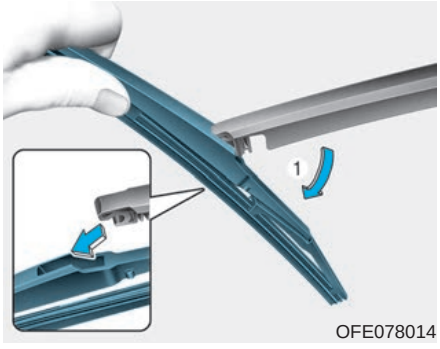
⚠ CAUTION

To prevent damage to the wiper arms or other components, have an authorized HYUNDAI dealer replace the wiper blade.

Rear window wiper blade replacement

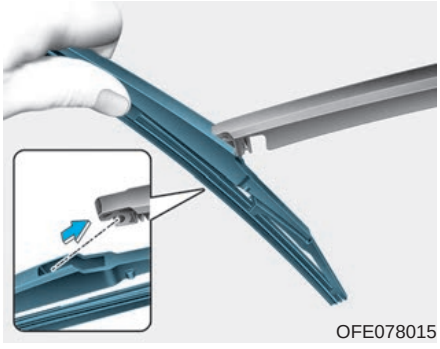

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1. Operate the rear windshield wiper to make sure the blade is on lower position. Then turn off the vehicle.



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2. Raise the wiper arm (1) and pull out the wiper blade assembly.


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3. Install the new blade assembly by inserting the center part into the slot in the wiper arm until it clicks into place.
4. Make sure the blade assembly is installed firmly by trying to pull it slightly.

To prevent damage to the wiper arms or other components, we recommend that the wiper blades be replaced by an authorized HYUNDAI dealer.

12V BATTERY

The vehicle is not equipped with a common 12V battery which requires periodic replacement. The battery is a lithium polymer type integrated into the high voltage battery. Full discharge of the battery is prevented through 12V battery protection system which can isolate the 12V battery.

⚠ 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 ON (indicator ON) or when the POWER button is in the ON position.**

Battery recharging

By RESET button



To charge the discharged 12V battery, attempt charging by pressing 12V BATT RESET button. For more details, refer to “If the 12 volt battery is discharged” in chapter 6.

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 6 for more information on jump starting procedures.

Reset Features

Some items need to be reset after the battery has been discharged or the battery has been disconnected. See chapter 3 for:

- Power Windows
- Trip Computer
- Climate Control System
- Clock
- Audio System
- Sunroof
- Driver Position Memory System

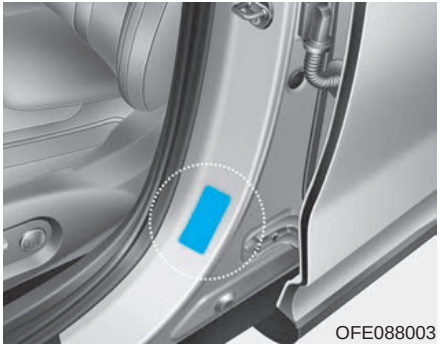
⚠ WARNING

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.**
- **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 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 fuel 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 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 one mile (1.6 km).

Warm tires normally exceed recommended cold tire pressures by 4 to 6 psi (28 to 41 kPa). 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" in chapter 8.

⚠ 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 fuel economy. Wheel deformation is also possible. Keep your tire pressures at the proper levels. If a tire frequently needs refilling, have it 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 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.

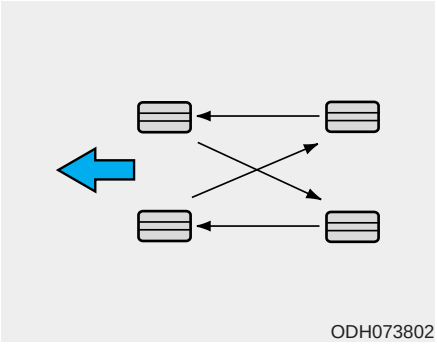
If you overfill the tire, release air by pushing on the metal stem in the center of the tire valve. Recheck the tire pressure with the tire gauge. Be sure to put the valve caps back on the valve stems. Without the valve cap, dirt or moisture could get into the valve core and cause air leakage. If a valve 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 6,000 miles (10,000 km) 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 tire. Replace the tire if you find either 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 lug nut tightness (proper torque is 79~94 lbf·ft [11~13 kgf·m]).



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Disc brake pads should be inspected for wear whenever tires are rotated.

Information

Tires that are asymmetrical or directional can only be installed on the wheel in one direction. The outside and inside of an asymmetrical tire is not easily distinguishable. Pay careful attention to the markings on the sidewalls of the tires, noting the "outside" marking and also the rotating direction before installing them on the vehicle.

WARNING

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

Improper wheel weights can damage your vehicle's aluminum wheels. Use only approved wheel weights.

Tire Replacement



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 1/16 inch (1.6 mm) 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.**

- **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.**
- **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.**
- **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.**

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.

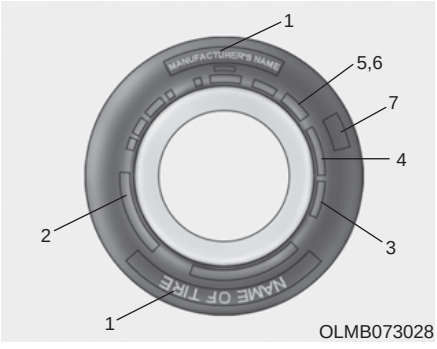
Tire Maintenance

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.)

225/60 R17 99H

225 - Tire width in millimeters.

60 - Aspect ratio. The tire's section height as a percentage of its width.

R - Tire construction code (Radial).

17 - Rim diameter in inches.

99 - Load Index, a numerical code associated with the maximum load the tire can carry.

H - 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:

7.0J x 17

7.0 - Rim width in inches.

J - Rim contour designation.

17 - Rim diameter in inches.

Tire speed ratings

The chart below lists many of the different speed ratings currently being used for passenger car 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	112 mph (180 km/h)
T	118 mph (190 km/h)
H	130 mph (210 km/h)
V	149 mph (240 km/h)
W	168 mph (270 km/h)
Y	186 mph (300 km/h)

3. Checking tire life (TIN : Tire Identification Number)

Any tires that are over six years old, based on the manufacturing date, 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 OOOO

The front part of the DOT means a plant code number, tire size and tread pattern and the last four numbers indicate week and year manufactured.

For example:

DOT XXXX XXXX 1421 represents that the tire was produced in the 14th week of 2021.

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:

TREAD wear 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. Grade C responds to a level of performance which all passenger car tires must meet under the Federal Motor Vehicle Safety Standard No. 109. 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.

Tire Terminology and Definitions

Air Pressure

The amount of air inside the tire pressing outward on the tire. Air pressure is expressed in pounds per square inch (psi) or kilopascal (kPa).

Accessory Weight

This means the combined weight of optional accessories. Some examples of optional accessories are reduction gear, power seats, and air conditioning.

Aspect Ratio

The relationship of a tire's height to its width.

Belt

A rubber coated layer of cords that is located between the plies and the tread. Cords may be made from steel or other reinforcing materials.

Bead

The tire bead contains steel wires wrapped by steel cords that hold the tire onto the rim.

Bias Ply Tire

A pneumatic tire in which the plies are laid at alternate angles less than 90 degrees to the centerline of the tread.

Cold Tire Pressure

The amount of air pressure in a tire, measured in pounds per square inch (psi) or kilopascals (kPa) before a tire has built up heat from driving.

Curb Weight

This means the weight of a motor vehicle with standard and optional equipment including the maximum capacity of fuel, oil and coolant, but without passengers and cargo.

DOT Markings

A code molded into the sidewall of a tire signifying that the tire is in compliance with the U.S. Department of Transportation motor vehicle safety standards. The DOT code includes the Tire Identification Number (TIN), an alphanumeric designator which can also identify the tire manufacturer, production plant, brand and date of production.

GVWR

Gross Vehicle Weight Rating

GAWR FRT

Gross Axle Weight Rating for the Front Axle.

GAWR RR

Gross Axle Weight Rating for the Rear axle.

Intended Outboard Sidewall

The side of an asymmetrical tire, that must always face outward when mounted on a vehicle.

Kilopascal (kPa)

The metric unit for air pressure.

Light truck(LT) tire

A tire designated by its manufacturer as primarily intended for use on lightweight trucks or multipurpose passenger vehicles.

Load ratings

The maximum load that a tire is rated to carry for a given inflation pressure.

Load Index

An assigned number ranging from 1 to 279 that corresponds to the load carrying capacity of a tire.

Maximum Inflation Pressure

The maximum air pressure to which a cold tire may be inflated. The maximum air pressure is molded onto the sidewall.

Maximum Load Rating

The load rating for a tire at the maximum permissible inflation pressure for that tire.

Maximum Loaded Vehicle Weight

The sum of curb weight; accessory weight; vehicle capacity weight; and production options weight.

Normal Occupant Weight

The number of occupants a vehicle is designed to seat multiplied by 150 pounds (68 kg).

Occupant Distribution

Designated seating positions.

Outward Facing Sidewall

An asymmetrical tire has a particular side that faces outward when mounted on a vehicle. The outward facing sidewall bears white lettering or bears manufacturer, brand, and/or model name molding that is higher or deeper than the same moldings on the inner facing sidewall.

Passenger (P-Metric) tire

A tire used on passenger cars and some light duty trucks and multipurpose vehicles.

Ply

A layer of rubber-coated parallel cords.

Pneumatic tire

A mechanical device made of rubber, chemicals, fabric and steel or other materials, that, when mounted on an automotive wheel provides the traction and contains the gas or fluid that sustains the load.

Pneumatic options weight

The combined weight of installed regular production options weighing over 5 lb. (2.3 kg) in excess of the standard items which they replace, not previously considered in curb weight or accessory weight, including heavy duty breaks, ride levelers, roof rack, heavy duty battery, and special trim.

Recommended Inflation Pressure

Vehicle manufacturer's recommended tire inflation pressure as shown on the tire placard.

Radial Ply Tire

A pneumatic tire in which the ply cords that extend to the beads are laid at 90 degrees to the centerline of the tread.

Rim

A metal support for a tire and upon which the tire beads are seated.

Sidewall

The portion of a tire between the tread and the bead.

Speed Rating

An alphanumeric code assigned to a tire indicating the maximum speed at which a tire can operate.

Traction

The friction between the tire and the road surface. The amount of grip provided.

Tread

The portion of a tire that comes into contact with the road.

Treadwear Indicators

Narrow bands, sometimes called "wear bars", that show across the tread of a tire when only 1/16 inch of tread remains.

UTQGS

Uniform Tire Quality Grading Standards is a tire information system that provides consumers with ratings for a tire's traction, temperature and treadwear. Ratings are determined by tire manufacturers using government testing procedures. The ratings are molded into the sidewall of the tire.

Vehicle Capacity Weight

The number of designated seating positions multiplied by 150 lbs. (68 kg) plus the rated cargo and luggage load.

Vehicle Maximum Load on the Tire

Load on an individual tire due to curb and accessory weight plus maximum occupant and cargo weight.

Vehicle Normal Load on the Tire

Load on an individual tire that is determined by distributing to each axle its share of the curb weight, accessory weight, and normal occupant weight and dividing by 2.

Vehicle Placard

A label permanently attached to a vehicle showing the original equipment tire size and recommended inflation pressure.

All Season Tires

HYUNDAI specifies all season tires on some models to provide good performance for use all year round, including snowy and icy road conditions. All season tires are identified by ALL SEASON and/or M+S (Mud and Snow) on the tire sidewall. Snow tires have better snow traction than all season tires and may be more appropriate in some areas.

Summer Tires

HYUNDAI specifies summer tires on some models to provide superior performance on dry roads. Summer tire performance is substantially reduced in snow and ice. Summer tires do not have the tire traction rating M+S (Mud and Snow) on the tire side wall. If you plan to operate your vehicle in snowy or icy conditions, HYUNDAI recommends the use of snow tires or all season tires on all four wheels.

Snow Tires

If you equip your car with snow tires, they should be the same size and have the same load capacity as the original tires. Snow tires should be installed on all four wheels; otherwise, poor handling may result. Snow tires should carry 4 psi (28 kPa) more air pressure than the pressure recommended for the standard tires on the tire label on the driver's side of the center pillar, or up to the maximum pressure shown on the tire sidewall, whichever is less. Do not drive faster than 75 mph (120 km/h) when your vehicle is equipped with snow tires.

Radial-Ply Tires

Radial-ply tires provide improved tread life, road hazard resistance and smoother high speed ride. The radial-ply tires used on this vehicle are of belted construction, and are selected to complement the ride and handling characteristics of your vehicle. Radial-ply tires have the same load carrying capacity, as bias-ply or bias belted tires of the same size, and use the same recommended inflation pressure. Mixing of radial-ply tires with bias-ply or bias belted tires is not recommended. Any combinations of radial-ply and bias-ply or bias belted tires when used on the same vehicle will seriously deteriorate vehicle handling. The best rule to follow is: Identical pairs of radial-ply tires should always be used as a set for the front tires and a set for the rear tires.

Longer wearing tires can be more susceptible to irregular tread wear. It is very important to follow the tire rotation interval in this chapter to achieve the tread life potential of these tires. Cuts and punctures in radial-ply tires are repairable only in the tread area, because of sidewall flexing. Consult your tire dealer for radial-ply tire repairs.

⚠ WARNING

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.

Low Aspect Ratio Tires

Low aspect ratio tires, the aspect ratio is lower than 50, are provided for sporty looks.

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

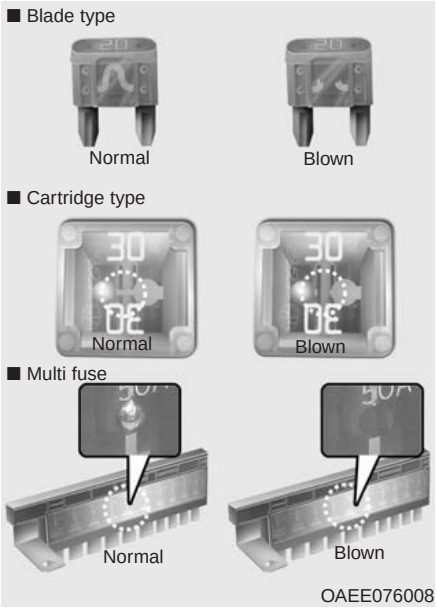
Because the sidewall of a low aspect ratio tire is shorter than a standard tire, the rim of the wheel and the tire itself is more easily susceptible to damage. Use caution when driving and follow the guidelines below to help minimize damage to the wheel and tire:

- **When driving on a rough road or off road, drive cautiously because tires and wheels may be damaged. And after driving, inspect tires and wheels.**
- **When passing over a pothole, speed bump, manhole, or curb stone, drive slowly so that the tires and wheels are not damaged.**
- **If the tire is subjected to a severe impact, have the tire and wheel inspected by an authorized HYUNDAI dealer.**
- **Inspect the tire condition and pressure every 1,800 miles (3,000 km).**

⚠ CAUTION

- **It is not easy to recognize tire damage with your own eyes. But if there is the slightest hint of tire damage, have the tire checked or replaced because the tire damage may cause air leakage from the tire.**
- **If the tire is damaged by driving on a rough road, off road, pothole, manhole, or curb stone, it will not be covered by the warranty.**

FUSES



A vehicle's electrical system is protected from electrical overload damage by fuses.

This vehicle has 2 (or 3) fuse panels, one located in the driver's side panel bolster, the other in the fuel cell power module compartment near the battery.

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 and immediately consult an authorized HYUNDAI dealer.

Information

Three kinds of fuses are used: blade type for lower amperage rating, cartridge type, and multi fuse for higher amperage ratings.

⚠ WARNING

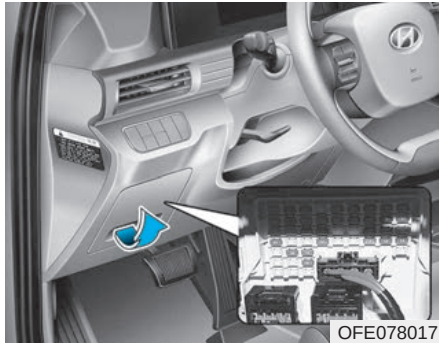
NEVER replace a fuse with anything but another fuse of the same rating.

- **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.**

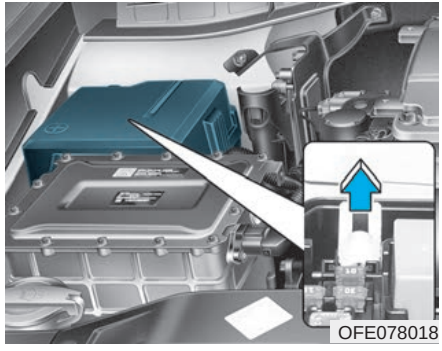
NOTICE

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


OFE078017

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.


OFE078018

5. Pull the suspected fuse straight out. Use the removal tool provided in the fuel cell power module compartment fuse panel.
6. Check the removed fuse; replace it if it is blown. Spare fuses are provided in the instrument panel fuse panels (or in the fuel cell power module 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, 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.

If the headlamps or other electrical components do not work and the fuses are OK, check the fuse panel in the fuel cell power module compartment. If a fuse is blown, it must be replaced with the same rating.

Fuel cell power module compartment Panel Fuse Replacement

Blade / Cartridge type


OFE078021

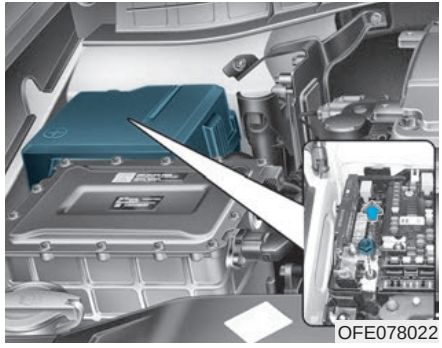
1. Turn the vehicle off.
2. Turn all other switches OFF.
3. Remove the fuse panel cover by pressing the tap and pulling up.
4. Check the removed fuse; replace it if it is blown. To remove or insert the fuse, use the fuse puller in the motor compartment fuse panel.
5. Push in a new fuse of the same rating, and make sure it fits tightly in the clips. If it fits loosely, consult an authorized HYUNDAI dealer.

⚠ CAUTION

After checking the fuse box in the fuel cell power module compartment securely close the fuse box cover inside the motor compartment, until it clicks.

If the fuse box is not closed properly, water may leak in side, possibly causing a malfunction with the electrical system.

Multi fuse


OFE078022

If the multi fuse is blown, it must be removed as follows:

1. Turn the vehicle off.
2. Disconnect the negative battery connector located on the trunk.
3. Remove the fuse panel cover by pressing the tab and pulling it up.
4. Remove the nuts shown in the picture above.
5. Replace the fuse with a new one of the same rating.
6. Reinstall in the reverse order of removal.

i Information

If the multi fuse is blown, consult an authorized HYUNDAI dealer.

Fuse/Relay Panel Description

Instrument panel fuse panel

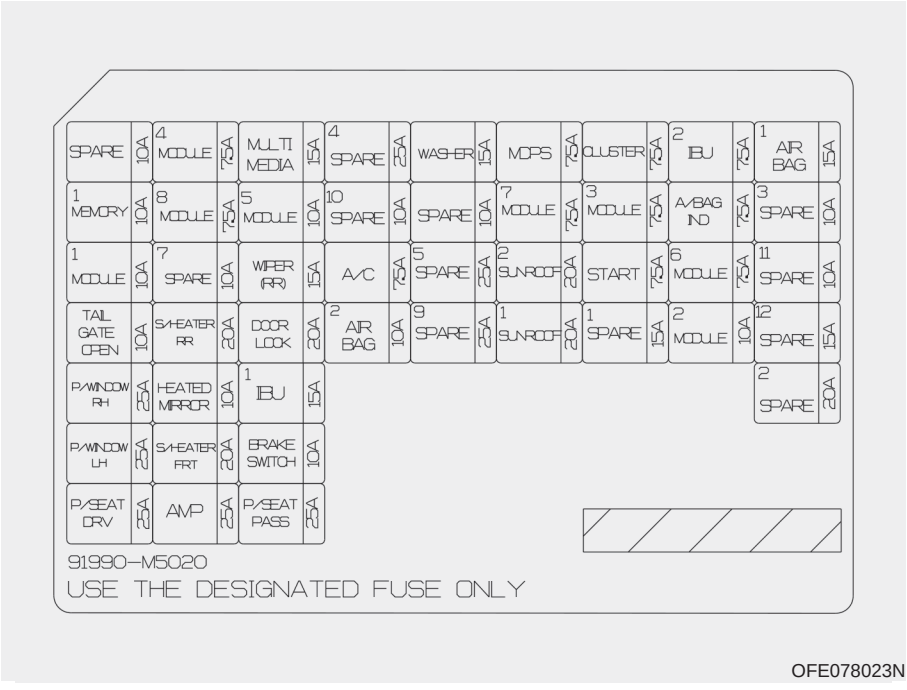


OFE078024

Inside the fuse/relay box cover, you can find the fuse/relay label describing fuse/relay name and capacity.

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.



OFE078023N

Instrument panel fuse panel

Fuse Name	Fuse Rating	Protected Component
MEMORY1	10A	Power Tail Gate Module, A/C Control Module, A/C Control Panel
MODULE1	10A	ICM Relay Box (Outside Mirror Folding/Unfolding Relay), A/V & Navigation Head Unit (Hazard Lamp Switch), Shift Selection Switch (SBW), Auto Light & Photo Sensor, Driver/Passenger Power Outside Mirror, Instrument Cluster
TAIL GATE OPEN	10A	Tail Gate Relay
P/WINDOW RH	25A	Power Window RH Relay
P/WINDOW LH	25A	Power Window LH Relay, Driver Safety Window Module
P/SEAT DRV	25A	Driver Seat Manual Switch
MODULE4	7.5A	IBU, Remote Control Smart Parking Assist Unit, VESS Unit, Electronic Parking Brake Switch, Lane Keeping Assist Unit(Line), Blind-Spot Collision Warning Unit LH/RH, Crash Pad Switch, PE Room Junction Block (Multipurpose Check Connector)
MODULE8	7.5A	Data Link Connector, Crash Pad Switch, Electro Chromic Mirror
S/HEATER RR	20A	Rear Seat Heater
HEATED MIRROR	10A	Driver/Passenger Power Outside Mirror, A/C Control Panel
S/HEATER FRT	20A	Front Air Ventilation/Seat Heater Seat Control Module

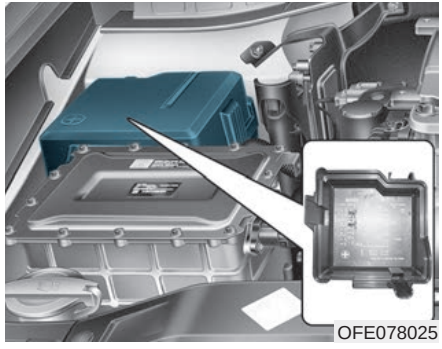
Instrument panel fuse panel

Fuse Name	Fuse Rating	Protected Component
AMP	25A	AMP
MULTI MEDIA	15A	A/V & Navigation Head Unit, Center Fascia Switch Panel
MODULE5	10A	Front Air Ventilation/Seat Heater Seat Control Module, AMP, A/V & Navigation Head Unit, A/C Control Panel, PTC Heater, A/C Control Module, Electro Chromic Mirror, Rear Seat Heater
WIPER (RR)	15A	ICM Relay Box (Rear Wiper Relay), Rear Wiper Motor
DOOR LOCK	20A	Door Lock Relay, Door Unlock Relay, ICM Relay Box (Two Turn Door Unlock Relay)
IBU1	15A	IBU
BRAKE SWITCH	10A	IBU, Stop Lamp Switch
P/SEAT PASS	25A	Passenger Seat Manual Switch
A/C	7.5A	A/C Control Module, Incar Temperature Sensor, A/C Control Panel, Cluster Ionizer, A/C Compressor, PE Room Junction Block (Blower Relay)
AIR BAG2	10A	SRS Control Module
WASHER	15A	Multifunction Switch

Instrument panel fuse panel

Fuse Name	Fuse Rating	Protected Component
MDPS	7.5A	MDPS Unit
MODULE7	7.5A	Front Air Ventilation/Seat Heater Seat Control Module, AC Inverter, Rear Seat Heater, Surround View Monitor Unit, Rear Power Outlet
SUNROOF2	20A	Sunroof Unit
SUNROOF1	20A	Sunroof Unit
CLUSTER	7.5A	Instrument Cluster
MODULE3	7.5A	SCU, Shift Selection Switch (SBW), IDC, VPD Sensor, Stop Lamp Switch, HMU, BMS Control Module
START	7.5A	FCU, IBU
IBU2	7.5A	IBU
A/BAG IND	7.5A	Instrument Cluster, A/C Control Panel
MODULE6	7.5A	IBU
MODULE2	10A	BMS Control Module, Wireless Charger, USB Charger LH/RH, A/V & Navigation Head Unit, Center Fascia Switch Panel, AMP, Surround View Monitor Unit, Power Outside Mirror Switch, IBU
AIR BAG1	15A	SRS Control Module, Passenger Occupant Detection Sensor

Fuel cell power module compartment fuse panel

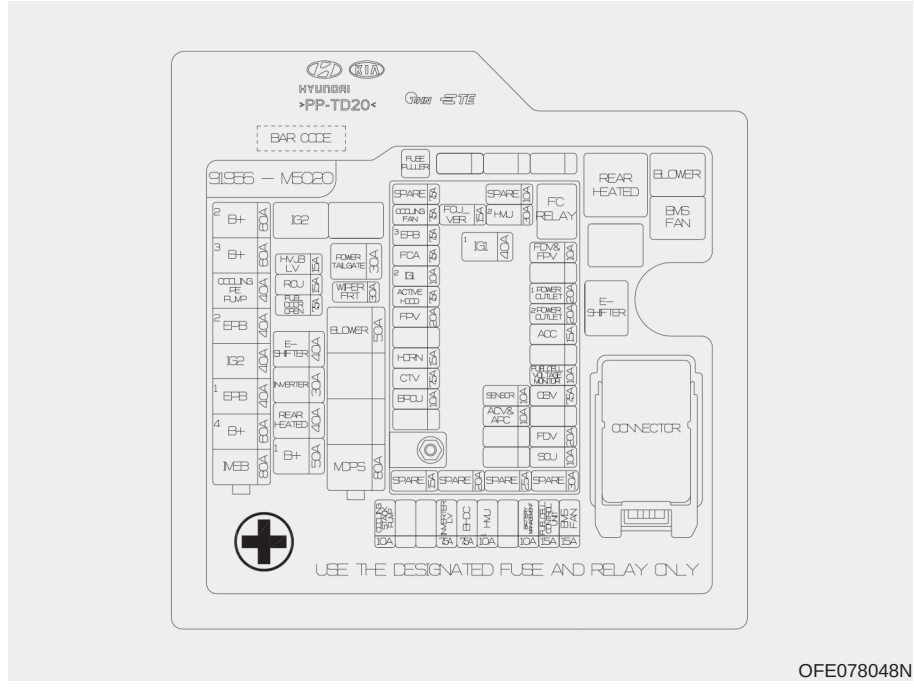


OFE078025

Inside the fuse/relay box cover, you can find the fuse/relay label describing fuse/relay name and capacity.

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.



OFE078048N

Motor compartment fuse panel

Type	Fuse Name	Fuse Rating	Circuit Protected
MULTI FUSE-1	B+2	60A	ICU Junction Block (IPS Control Module, IPS1)
	B+3	60A	ICU Junction Block (IPS Control Module)
	COOLING PE PUMP	40A	PE Room Coolant Pump (CPP)
	EPB2	40A	Electronic Brake Control Module
	IG2	40A	PE Room Junction Block (IG2 Relay)
	EPB1	40A	Electronic Brake Control Module, PE Room Junction Block (Multipurpose Check Connector)
	B+4	60A	ICU Junction Block (Fuse - SUNROOF1, SUNROOF2, AMP, P/SEAT DRV, P/SEAT PASS, S/HEATER FRT, P/WINDOW LH, P/WINDOW RH, TAIL GATE OPEN)
	IMEB	80A	Electronic Brake Control Module
MULTI FUSE-2	BLOWER	50A	PE Room Junction Block (Blower Relay)
	MDPS	80A	MDPS Unit

Motor compartment fuse panel

Type	Fuse Name	Fuse Rating	Circuit Protected
FUSE	HVJB LV	15A	HV Junction Block
	RCU	15A	Driver / Passenger Auto Flush Door Handle Module, Rear Auto Flush Door Handle Module LH/RH
	FUEL DOOR OPEN	7.5A	ICM Relay Box (Fuel Filler Door Relay)
	E-SHIFTER	40A	PE Room Junction Block (E-Shifter Relay)
	INVERTER	30A	AC Inverter
	REAR HEATED	40A	PE Room Junction Block (Rear Heated Relay)
	B+1	50A	ICU Junction Block ((Fuse - MODULE1, AIR BAG2, MODULE8, S/HEATER RR, DOOR LOCK, IBU1, BRAKE SWITCH), Leak Current Autocut Relay)
	POWER TAIL GATE	30A	Power Tail Gate Module
	WIPER FRT	30A	Front Wiper Motor
	COOLING STACK PUMP	10A	Stack Coolant Pump (CSP)
	INVERTER LV	7.5A	Inverter

Motor compartment fuse panel

Type	Fuse Name	Fuse Rating	Circuit Protected
FUSE	BHDC	7.5A	IDC
	HMU1	10A	HMU
	BATTERY MANAGEMENT	10A	BMS Control Module
	FUEL CELL CONTROL UNIT	15A	FCU
	BMS FAN	15A	PE Room Junction Block (BMS FAN Relay)

LIGHT BULBS

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.

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.

⚠ WARNING

- **Prior to replacing a lamp, shift to P (Park), apply the parking brake, place the POWER button in 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.**

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 parking lamp may not turn on when the parking lamp switch is turned on, but the parking 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.**

Headlamp, front center lamp, turn signal lamp, daytime running lamp, parking lamp, side marker replacement



(1) Headlamp (Low/High)
(2) Front center lamp
(3) Turn signal/daytime running lamp/parking lamp
(4) Side marker

Your vehicle is equipped with LED lamps. LED lamps do not have replaceable bulbs. If the LED lamp does not operate, have the vehicle checked by an authorized HYUNDAI dealer.

Information

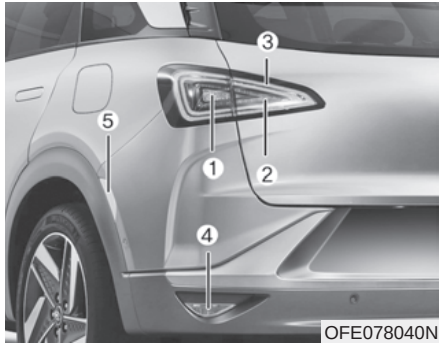
The headlamp aiming should be adjusted after an accident or after the headlamp assembly is reinstalled at an authorized HYUNDAI dealer.

Side Repeater Lamp Replacement



Your vehicle is equipped with LED lamps. LED lamps do not have replaceable bulbs. If the LED lamp does not operate, have the vehicle checked by an authorized HYUNDAI dealer.

Rear Combination Light Bulb Replacement



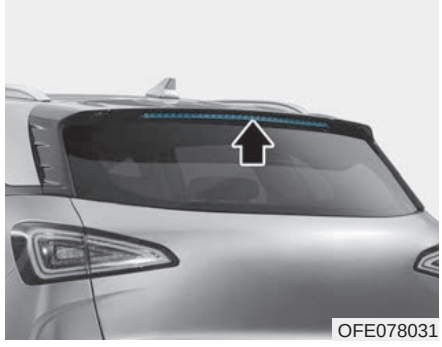
OFE078040N

(1) Turn signal lamp/stop lamp
(2) Turn signal lamp/stop lamp
(3) Tail lamp
(4) Backup lamp
(5) Side marker

Stop lamp, tail lamp, turn signal lamp, backup lamp and side marker

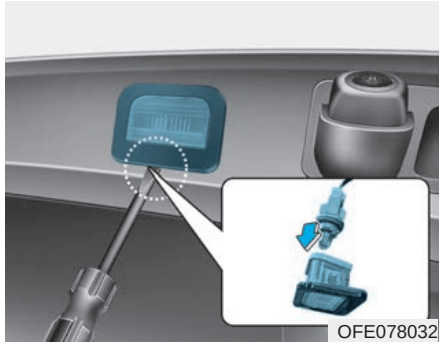
Your vehicle is equipped with LED lamps. LED lamps do not have replaceable bulbs. If the LED lamp does not operate, have the vehicle checked by an authorized HYUNDAI dealer.

High mounted stop lamp


OFE078031

If the high mounted stop lamp does not operate, have the vehicle checked by an authorized HYUNDAI dealer.

License Plate Light Bulb Replacement


OFE078032

1. Using a flat-blade screwdriver, gently pry the lens cover from the lamp housing.
2. Remove the bulb by pulling it straight out.
3. Install a new bulb.
4. Reinstall in the reverse order.

Interior Light Bulb Replacement

Map lamp, room lamp and luggage compartment lamp

■ Map lamp


OFE078033

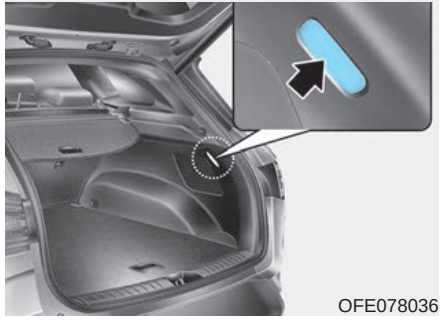
■ Room lamp (Type B)


OFE078034

■ Room lamp (Type A)


OAEE076027

■ Luggage compartment lamp


OFE078036

Your vehicle is equipped with LED lamps. LED lamps do not have replaceable bulbs. If the LED lamp does not operate, have the vehicle checked by an authorized HYUNDAI dealer.

Vanity mirror lamp and glove box lamp

■ Vanity mirror lamp



■ Glove box lamp



1. Using a flat-blade screwdriver, gently pry the lens from the interior lamp housing.
2. Remove the bulb by pulling it straight out.

⚠ WARNING

Prior to working on the Interior Lights, ensure that the lamp is off to avoid burning your fingers or receiving an electric shock.

3. Install a new bulb in the socket.
4. Align the lens tabs with the interior lamp housing notches and snap the lens into place.

NOTICE

Use care not to dirty or damage lens, lens tab, and plastic housings.

APPEARANCE CARE

Exterior Care

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.

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.
- Do not use any high-pressure nozzles, which induce either one-direct water stream or water swirling.

Protecting your vehicle's finish

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.

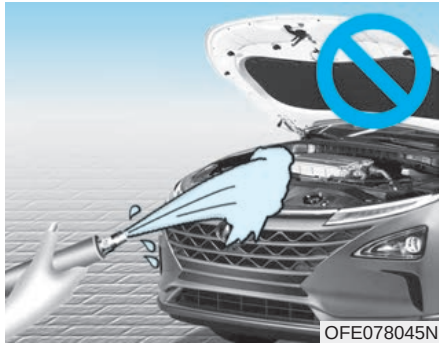
⚠ WARNING

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.


OFE078045N

NOTICE

- Water washing in the fuel cell power module compartment including high pressure water washing may cause the failure of electrical circuits located in the fuel cell power module compartment.
- Never allow water or other liquids to come in contact with electrical/electronic components inside the vehicle as this may damage them.

NOTICE

Matte paint finish vehicle

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 provides a barrier between your paint and environmental contamination.

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

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.

Repairing your vehicle's finish

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

In case of matte paint finish vehicles, it is impossible to modify only the damaged area and repair of the whole part is necessary. If the vehicle is damaged and painting is required, we recommend that you have your vehicle maintained and repaired by an authorized HYUNDAI dealer. Take extreme care, as it is difficult to restore the quality after the repair.

Bright-metal maintenance

- To remove road tar and insects, use a tar remover, not a scraper or other sharp object.
- To protect the surfaces of bright-metal parts from corrosion, apply a coating of wax or chrome preservative and rub to a high luster.
- During winter weather or in coastal areas, cover the bright metal parts with a heavier coating of wax or preservative. If necessary, coat the parts with non-corrosive petroleum jelly or other protective compound.

Underbody maintenance

Corrosive materials used for ice and snow removal and dust control may collect on the underbody. If these materials are not removed, accelerated rusting can occur on underbody parts such as the fuel lines, frame, floor pan and exhaust system, 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.

NOTICE

- **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 cars 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 car 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 the 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 car 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 car 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 vinyl.

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

Vinyl (if equipped)

Remove dust and loose dirt from vinyl with a whisk broom or vacuum cleaner. Clean vinyl surfaces with a vinyl cleaner.

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)

- Feature 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 object, 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.

⚠ CAUTION

- **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 protective 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 contaminate 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.

CALIFORNIA PERCHLORATE NOTICE

Perchlorate Material-special handling may apply, See: www.dtsc.ca.gov/hazardouswaste/perchlorate.

Notice to California Vehicle Dismantlers:

Perchlorate containing materials, such as air bag inflators, seatbelt pretensioners and keyless remote entry batteries, must be disposed of according to Title 22 California Code of Regulations Section 67384.10 (a).

Specifications, Consumer information and Reporting safety defects

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DIMENSIONS

Items		in (mm)
Overall length		183.86 (4,670)
Overall width		73.23 (1,860)
Overall height		Without roof side rails : 64.17 (1,630) With roof side rails : 64.57 (1,640)
Front tread	225/60 R17	63.70 (1,618)
	245/45 R19	63.54 (1,614)
Rear tread	225/60 R17	64.13 (1,629)
	245/45 R19	63.98 (1,625)
Wheelbase		109.84 (2,790)

BULB WATTAGE

Light Bulb			Bulb Type	Wattage
Front	Headlamp	Low/High	LED	LED
	Turn signal lamp		LED	LED
	Front center lamp		LED	LED
	Parking lamp		LED	LED
	Daytime running lamp (DRL)		LED	LED
	Side Repeater lamp (Outside mirror)		LED	LED
	Side marker		LED	LED
Rear	Rear combination lamp	Stop	LED	LED
		Tail	LED	LED
		Turn signal	LED	LED
		Back up	LED	LED
		Side marker	LED	LED
	High mounted stop lamp		LED	LED
	License plate lamp		W5W	5
Interior	Map lamp		LED	LED
	Room lamp		LED	LED
	Vanity mirror lamp		FESTOON	5
	Luggage compartment lamp		LED	LED
	Glove box lamp		FESTOON	5

TIRES AND WHEELS

Items	Tire Size	Wheel Size	Inflation Pressure kPa (psi)				Wheel Lug Nut Torque kgf·m (lbf·ft, N·m)
			Normal Load *1		Maximum Load *2		
			Front	Rear	Front	Rear	
Full size tire	225/60 R17	7.0J X 17	250 (36)	250 (36)	250 (36)	250 (36)	11~13 (79~94, 07~127)
	245/45 R19	7.5J X 19					

*1: Normal load : Up to 3 persons

*2: Maximum load : Up to 5 persons

If your vehicle is not equipped with a compact spare tire, your vehicle will be equipped with a Tire Mobility Kit.

NOTICE

- **It is permissible to add 3 psi to the standard tire pressure specification if colder temperatures are expected soon.**

  Tires typically loose 1psi (7kPa) for every 12°F temperature drop. If extreme temperature variations are expected, recheck your tire pressure as necessary to keep them properly inflated.
- **An air pressure generally decreases, as you drive up to a high-altitude area above sea level. Thus, if you plan to drive a high-altitude area, check the tire pressures in advance. If necessary, inflate them to a proper level. (Air inflation per altitude : +2.4 psi/1 mile)**

⚠ CAUTION

When replacing tires, use the same size originally supplied with the vehicle.

Using tires of a different size can damage the drivetrain, cause driveability issues, and possibly cause damage.

VOLUME AND WEIGHT

Gross Vehicle Weight lbs. (kg)	Luggage Volume cu ft (*l*)	
	Min.	Max.
5,159 (2,340)	16.28(461)	51.77 (1,466)

AIR CONDITIONING SYSTEM

Items	Weight of Volume	Classification
Refrigerant oz. (g)	20.28±0.88 (575±25)	R-1234yf
Compressor lubricant oz. (cc)	4.59±0.35 (130±10)	POE

Contact an authorized HYUNDAI dealer for more details.

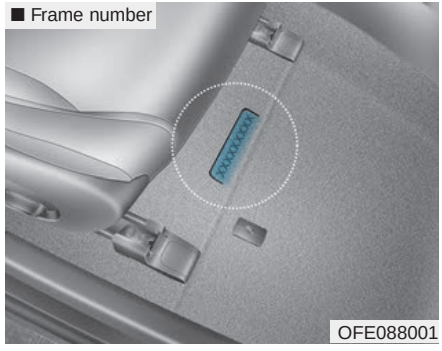
RECOMMENDED LUBRICANTS AND CAPACITIES

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.

<table>
<tr><th colspan="2">Lubricant</th><th>Volume</th><th>Classification</th></tr>
<tr><td colspan="2">Reduction gear fluid</td><td>1.06 US qt (1 l)</td><td>GL4 75W/85, TGO-9</td></tr>
<tr><td rowspan="2">Coolant</td><td>Fuel cell stack</td><td colspan="2" rowspan="2">We recommend that you consult an authorized Hyundai dealer.</td></tr>
<tr><td>Traction motor</td></tr>
<tr><td colspan="2">Brake fluid</td><td>Amount required</td><td>SAE J1704 DOT-4LV,
FMVSS116 DOT-4,
ISO4925 CLASS-6</td></tr>
<tr><td colspan="2">Fuel</td><td>165.48 US qt. (156.6 l)</td><td>Hydrogen (SAE J2719 or ISO 14687-2)</td></tr>
</table>

VEHICLE IDENTIFICATION NUMBER (VIN)

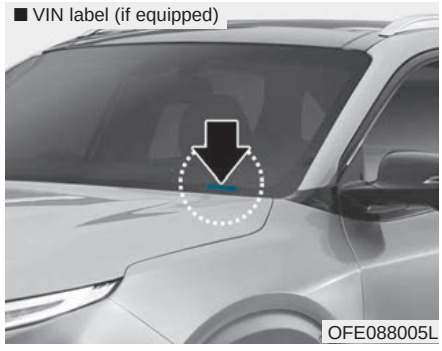
■ Frame number



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

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

■ VIN label (if equipped)



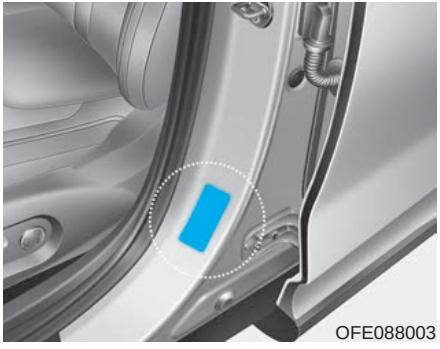
The VIN is also on a plate attached to the top of the dashboard. The number on the plate can easily be seen through the windshield from outside.

VEHICLE CERTIFICATION LABEL



The vehicle certification label attached on the driver's side center pillar gives the Vehicle Identification Number (VIN).

TIRE SPECIFICATION AND PRESSURE LABEL

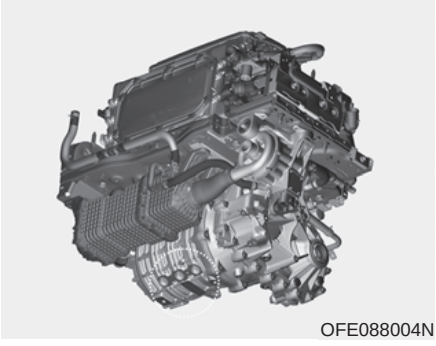


OFE088003

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 car.

TRACTION MOTOR NUMBER



OFE088004N

The motor number can be seen from under the vehicle.

CONSUMER INFORMATION

This consumer information has been prepared in accordance with regulations issued by the National Highway Traffic Safety Administration of the U.S. Department of Transportation. Your HYUNDAI dealer will help answer any questions you may have as you read this information.

HYUNDAI motor vehicles are designed and manufactured to meet or exceed all applicable safety standards.

For your safety, however, we strongly urge you to read and follow all directions in this Owner's Manual, particularly the information under the headings **"NOTICE", "CAUTION" and "WARNING".**

If, after reading this manual, you have any questions regarding the operation of your vehicle, please contact your nearest HYUNDAI Motor America Regional Office as listed in the following:

HYUNDAI Customer Care

P.O. Box 20850

Fountain Valley, CA 92728

800-633-5151

consumeraffairs@hmausa.com

Hyundai's Customer Care Center representatives are available Monday through Friday,

between the hours of 6:00 AM and 5:00 PM PST

and Saturday between 6:30 AM and 3:00 PM PST (English).

For Customer Care Center assistance in Spanish or Korean, representatives are available Monday through Friday between 6:30 AM and 3:00 PM PST.

REPORTING SAFETY DEFECTS

If you believe that your vehicle has a defect which could cause a crash or could cause injury or death, you should immediately inform the National Highway Traffic Safety Administration (NHTSA) in addition to notifying HYUNDAI MOTOR AMERICA.

To contact NHTSA, you may call the Vehicle Safety Hotline toll-free at 1-888- 327-4236 (TTY: 1-800-424-9153);

go to http://www.safercar.gov;

download the SaferCar mobile application;

or write to: Administrator, NHTSA
1200 New Jersey Ave, SE.,
West Building Washington, D.C. 20590.

You can also obtain other information about motor vehicle safety from http://www.safercar.gov.

If NHTSA receives similar complaints, it may open an investigation, and if it finds that a safety defect exists in a group of vehicles, it may order a recall and remedy campaign. However, NHTSA cannot become involved in individual problems between you, your dealer, or HYUNDAI MOTOR AMERICA.

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