# **Table of Contents**

1.	Information/Getting started with your electric vehicle	1
2.	Vehicle information	63
	Exterior overview (Front view)	63
	Exterior overview (Rear view)	64
	Interior overview	65
	Center console overview	68
	Steering wheel control overview	71
	Motor compartment overview	72
	Dimensions	73
	Electric vehicle specifications	74
	Bulb wattage	75
	Tires and wheels	76
	Load and speed capacity tires	77
	Air conditioning system	
	Vehicle weight and luggage volume	79
	Recommended lubricants and capacities	80
	Vehicle Identification Number (VIN)	81
	Vehicle certification label	
	Tire specification and pressure label	
	Motor number	
	Air conditioner compressor label	
	Declaration of conformity	
	Importer information (for Europe)	
	Open source software notice	
	IMPORTER & DISTRIBUTOR INFORMATION FOR EU BATTERY REGULA (EU 2023/1542)	
3.	Seats & Safety system	
	Important safety precautions	
	Seats	95
	Seats warmers	
	Air ventilation seats	110
	Seat belts	
	Child Restraint System (CRS)	
	Airbag - supplemental restraint system	136
4.	Instrument Cluster	_
	Instrument cluster	157
	Cluster display	185

Vehicle settings (infotainment system)	191
5. Convenience Features	193
Accessing your vehicle	193
Hyundai Digital Key	200
Door locks	212
Theft-alarm system	221
Advanced Rear Occupant Alert (ROA)	223
Steering wheel	227
Mirrors	231
Windows	241
Vision roof	246
Hood	249
Power tailgate	251
Smart tailgate	258
Electric charging door	261
Head-up display (HUD)	263
Vehicle system OTA update	267
Exterior lights	270
High Beam Assist (HBA)	277
Interior lights	281
Wipers and washers	285
Automatic climate control system	291
Windshield defrosting and defogging	
Windshield defrosting (Heater)	310
Climate control additional features	
Storage compartment	315
Interior features	317
Infotainment system	330
6. Driving your vehicle	335
Before driving	335
Start/Stop button	337
Reduction gear	342
N Brake regen	349
Smart regeneration system	354
Braking system	362
ALL Wheel Drive (AWD)	
Electronic Limited Slip Differential	383
N Button	385

Drive mode integrated control system	386
N Mode	
Active air flap	409
Special driving conditions	410
Winter driving	
Vehicle weight	
7. Driver Assistance System	417
Driver assistance system notice	417
Forward Collision-Avoidance Assist (FCA)	
Lane Keeping Assist (LKA)	
Blind-Spot Collision-Avoidance Assist (BCA)	461
Safe Exit Warning (SEW)	473
Safe Exit Assist (SEA)	
Manual Speed Limit Assist (MSLA)	
Intelligent Speed Limit Assist (ISLA)	490
Driver Attention Warning (DAW)	498
Blind-Spot View Monitor (BVM)	505
Cruise Control (CC)	508
Smart Cruise Control (SCC)	513
Navigation-based Smart Cruise Control (NSCC)	534
Lane Following Assist (LFA)	540
Highway Driving Assist (HDA)	545
Rear View Monitor (RVM)	559
Surround View Monitor (SVM)	564
Rear Cross-Traffic Collision-Avoidance Assist (RCCA)	571
Forward/Reverse Parking Distance Warning (PDW)	583
Forward/Side/Reverse Parking Distance Warning (PDW)	590
Reverse Parking Collision-Avoidance Assist (PCA)	598
Forward/Side/Reverse Parking Collision-Avoidance Assist (PCA)	606
Remote Smart Parking Assist 2 (RSPA 2)	615
Declaration of conformity	645
8. Emergency situations	655
Hazard warning flasher	655
In case of an emergency while driving	
If the vehicle does not start	657
Jump starting (12 V battery)	658
Tire pressure monitoring system (TPMS)	663
If you have a flat tire (with Tire Mobility Kit)	669

	Towing	677
	Emergency commodity	680
	Pan-European eCall System (for Europe)	682
	UAE eCall System (For UAE)	689
9.	Maintenance	697
	Motor compartment	697
	Maintenance services	698
	Owner maintenance	699
	Scheduled maintenance services	701
	Explanation of scheduled maintenance items	705
	Coolant	706
	Brake fluid	709
	Reduction gear fluid	710
	Washer fluid	711
	Cabin air filter	712
	Wiper blades	714
	Battery (12 V)	717
	Tires and wheels	721
	Fuses	729
	Light bulbs	743
	Appearance care	753
10.	Appendix	761
	Vetrarakstur (íslenskur)	761
	Barnaöryggisbúnaður (CRS) (ÍSLENSKA)	
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# 1. Information/Getting started with your electric vehicle

### Information

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 vour 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 Company** 



# **CAUTION**

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

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#### 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 \_

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 iniury.



#### 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.

#### Vehicle modifications

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

#### Vehicle handling instruction

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

Returning used vehicles (for Europe)

HYUNDAI promotes an environmentally sound treatment for end of life vehicles and offers to take back your HYUNDAI end of life vehicles in accordance with the European Union (EU) End of Life Vehicles Directive.

You can get detailed information from your national HYUNDAI website.

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

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

# **About "Getting started with your electric vehicle"**

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

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

# Understanding your electric vehicle

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

### Characteristics of your electric vehicle

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

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

#### Information

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

### Battery information

The batteries used in the electric vehicle are as follows:

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

# Main components of your electric vehicle

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

- On-Board Charger (OBC): Charges the high voltage battery by converting the power grid's AC power to DC power.
- Inverter: Converts power from direct current (DC) to alternating current (AC) and supplies power to the motor, and converts power from AC to DC and charge the high voltage battery during deceleration and braking.
- Low Voltage DC-DC Converter (LDC): Converts the high voltage battery's power source to a low voltage (12 V) power source and supply power to the electrical devices in the vehicle.
- Vehicle Control Unit (VCU): Controls the various controllers and sensors on the vehicle.
- Motor: Uses electricity accumulated in the high voltage battery to drive the vehicle (same role as an engine in gasoline and diesel vehicles).
- Reduction gear: Delivers the rotational force of the motor to the tires at appropriate speeds and torque.

• High voltage battery (Lithium-ion battery): Stores and supplies power necessary for the electric vehicle to operate. (The separately installed 12 V battery provides power to the vehicle when the vehicle is in ACC or OFF.)



### **MARNING**

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

### Precautions when using the high voltage battery

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

# CAUTION

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

# Other precautions for electric vehicle management



### CAUTION

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

# High voltage cut-off switch

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





# **WARNING**

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

# Charging your electric vehicle

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

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

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

### Safety precautions for charging your electric vehicle

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

#### Precautions for electric medical devices



### MARNING

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

### Basic safety precautions for charging



#### MARNING

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

#### Information

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

### Precautions for operating the cooling fan



### MARNING



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

# Precautions for operating the charging door

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



### CAUTION

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

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

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

### Precautions for using, handling, and storing the charging cable

Precautions when using the charging cable



#### CAUTION

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



# **CAUTION**

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

# Checking basic information on charging your electric vehicle

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

# Checking charge types and times

The charge types for electric vehicle are as follows:

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



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

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

Charging type		Charging time	Charge level (Minimum - Maximum)	Charging condition (Temperature)
AC charge		About 7 hours 35 minutes	10-100 %	
DC abauma	50 kW	About 70 minutes	10-80 %	Battery
DC charge	350 kW	About 18minutes	10-80 %	temperature (25 °C)
Portable charge		About 34 hours 40 minutes (230 V / 12 A)	10-100 %	

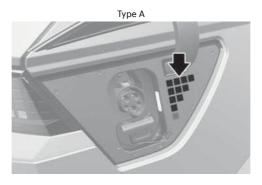
#### Information

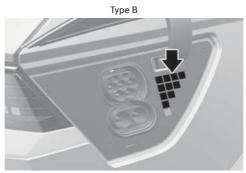
- Depending on the condition and duration of use of the high voltage battery, charger specifications, and ambient temperature, the time required for charging the high voltage battery may vary.
- If the charger is worn out, exposed, or there exists any type of damage, charging may stop for your safety. Use another charger that works normally.
- When charging the battery, an additional 3 minutes may be required to check battery condition.

# Checking the charging status

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

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

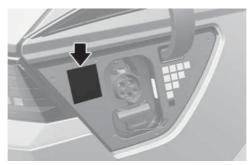




Charge indicator lamp	SOC [%]
<b>==</b> -	0-24 %
===	25-49 %
<b>#*</b> "	50-74 %
<b>!!</b> "	75-100 %

# Checking information on the charging label

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





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

# Setting charging connector locking mode

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

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

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

The available locking mode options are as follows:

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

### Disconnecting the charging connector in an emergency

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



### **CAUTION**

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

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



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

# Using an AC charger

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

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



#### WARNING

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



### CAUTION

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

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

### Understanding the AC charging cable

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



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

# Charging with an AC charger

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

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



#### WARNING

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

- 5 Remove the charging connector protection cap of the AC charging cable, hold the charging connector handle, and connect it to the AC charging inlet on the vehicle. Push it until you hear a click.
- 6 [If using separately purchased charging cable] Remove the charging plug protection cap of the AC charging cable, hold the charging plug handle, and connect it to the electric outlet (220 V) of the AC charger.
  - This process is required only when using a separately purchased AC charging cable.
     If you use a charging cable installed in an AC charger, a separate charging plug connection is not required.
  - When charging starts, the estimated charging time is displayed on the instrument cluster for about one minute.

#### Information

- If you open the driver's door while charging, the estimated charging time is also displayed on the instrument cluster for about one minute.
- When scheduled charging is set, "Waiting to charge at scheduled time" is displayed.
- When scheduled air conditioner or heater operates while waiting for the scheduled charging, the estimated charging time is displayed as "-".
- 7 [If using a separately purchased charging cable] When charging is complete, hold the charging plug handle, disconnect the charging plug from the electric outlet (220 V) of the AC charger, and close the protection cap of the charging plug.
  - This process is required only when using an AC charging cable purchased separately.
     If you use a charging cable installed in an AC charger, a separate charging plug disconnection is not required.
- 8 Hold the charging connector handle, and pull the charging connector to disconnect it from the charging inlet.



#### CAUTION

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

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

#### Information

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

### Using a DC charger

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

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



### MARNING

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



#### CAUTION

Battery performance and life may deteriorate if the DC charger is used constantly. Use of DC charging should be minimized in order to help prolong high voltage battery life. Use AC charging unless DC charging is necessary.

### Understanding the DC charging connector

The exterior of the DC charging cable is as follows:





Type B



### Charging with a DC charger

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

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



### MARNING.

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

- 5 Remove the charging connector protection cap of the DC charging cable, hold the charging connector handle, and connect it to the DC charging inlet on the vehicle. Push it until you hear a click.
  - When charging starts, the estimated charging time is displayed on the instrument cluster for about one minute.

#### Information

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

- 6 When charging is complete, hold the charging connector handle and pull out the charging connector to disconnect it from the charging inlet.
  - Depending on the DC charger types, some DC chargers may not have a charger connector unlock button.



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

#### NOTICE

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

- 7 Close the charging inlet cover.
- 8 Press the charging door to completely close it.

### Using a portable charger (ICCB)

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



#### 🚹 WARNING

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



#### CAUTION

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

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

# Understanding portable chargers

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



- 1. Power plug
- 2. Control box
- 3. Charging connector

Icon		Name	Color	Description
POWER	POWER		Green	Turns on when the power is on.
C+3 CHARGE	CHARGE		Blue	Turns on while charging and blinks when current is limited (Forcibly switched to 6 A).
O FAULT	FAULT		Red	Blinks when a leakage current, communication error, or overcurrent error occurs, or when the high-temperature protection inside the plug and charger is activated.
86.	CHARGE LEVEL		-	Displays the present charging current setting (6 A, 8 A, 10 A, or 12 A).
	E1	Control pilot communication	-	Vehicle communication error
	E2	Leakage		Current leakage
BB.	E3	Leakage	-	Charger error
<u> </u>	E4	. Plug temperature	-	Plug overtemperature warning
	E5		-	Plug temperature failure

Icon	Name		Color	Description
	E6		-	Charger error
	E7	Overcurrent	-	Charging overcurrent warning
	E8	Internal	-	Charger overheating
	E9	temperature	-	Charger error
	F1	Relay fusion	-	Charger error
F2 N	Ground Monitoring/ Interrupt	-	Poor grounding of outlet	
	F3 Switched mode power supply power failure	Switched mode	-	Switched mode power supply error (voltage failure)
		-	Switched mode power supply error (abnormal voltage)	
	F5	Control Pilot	-	Control Pilot (-) voltage error
	F6	voltage error	-	Control Pilot (+) voltage error
F7 Temperature sensor error	-	Plug temperature sensor error		
	F8		-	PCB internal temperature sensor error

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

# Charging with a portable charger

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

- 1 Connect the power plug of the portable charger to the electrical outlet at your home.
  - The power indicator light on the control box turns green.

2 Set the charging current by pressing the button on the control box for more than 2 seconds until the number on the charging current indicator blinks.

#### NOTICE

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

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

- The charging current is changed each time the button is pressed, in the order of '6 A - 8 A - 10 A - 12A'.
- If 10 seconds have passed without pressing any button, the blinking stops and the charging current setting is finished.
- 3 With the vehicle on, apply the Electronic Parking Brake (EPB) while pressing the brake pedal.
- 4 Turn all switches off, shift to P (Park), and turn off the vehicle.
- 5 With the vehicle door unlocked, press the k symbol on the charging door to open the charging door.
- 6 Open the charging inlet cover and check the charging connector and charging inlet for dust or other contaminants.
  - If there is any dirt or contaminants, remove it using the air gun.



### MARNING .

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

- 7 Remove the charging connector protection cap of the portable charging cable, hold the charging connector handle, and connect it to the AC charging inlet of the vehicle. Push it until vou hear a click.
  - · When charging starts, the estimated charging time is displayed on the instrument cluster for about one minute.

#### Information

- If you open the driver's door while charging, the estimated charging time is also displayed on the instrument cluster for about one minute.
- When scheduled charging is set, "Waiting to charge at scheduled time" is displayed.
- When scheduled air conditioner or heater operates while waiting for the scheduled charging, the estimated charging time is displayed as "-".
- 8 When charging is complete, hold the charging connector handle with the unlock button pressed and pull on the charging connector to disconnect it from the charging inlet.

#### Information

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

- For more information, refer to the "Setting charging connector locking mode" section in this chapter.
- 9 Close the charging inlet cover.
- 10 Press the charging door to completely close it.

### Using the scheduled charging function

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

#### Information

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

On the Home screen of the infotainment system, select **Electric Vehicle**  $> \frac{1}{16}$  > **AC Charger** > **Scheduled Charging**.

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

#### Information

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

### Stopping charging immediately

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

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

### Checklist when charging does not start

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

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

# **Using Electric Vehicle functions**

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

### **Checking the Electric Vehicle screen configuration**

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

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

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



No.	Name	Description
(1)		You can check the energy consumption and energy economy history.
	₩ <sub>Q</sub>	You can set various options related to electric vehicle charging.
(2)	Next Departure	You can set a scheduled departure time by which charging is complete and the cabin temperature is preconditioned. For more information, refer to the "Setting the next departure time section in this chapter.
	AC charger	You can set the options for AC charger including charging current. For more information, refer to the "Setting the options for the AC charger" section in this chapter.

No.	Name	Description
	Charging Limit	You can set the charging target for fast charging and slow charging. For more information, refer to the "Setting the target battery charge level" section in this chapter.
	Electricity Use Settings (V2L)	You can set the battery discharging limit(%) for the high voltage battery for driving. For more information, refer to the "Setting a battery discharging limit when using Vehicle to Load (V2L)" section in this chapter.
(3)	*	You can set various electric vehicle specialized functions.  • Battery Conditioning  • Utility Mode  • Plug & Charge For more information, refer to the "Setting electric vehicle specialized functions" section in this chapter.
(4)	=	You can check charging station, Home screen edit, and online manual.

# **Checking energy information**

You can check the energy consumption and energy economy history.

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

# Checking the energy consumption

On the infotainment screen, select Electricity Use.

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



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

# Checking the energy economy history

On the infotainment screen select EV Economy History.

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



### Setting the next departure time

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

#### Information

- · Scheduled climate is activated based on the departure time.
- The scheduled climate function directly uses the power of the connected charger. It
  can maintain a pleasant environment and enhance vehicle performance by controlling
  the temperature of the vehicle and the battery without using the high voltage battery
  power.
- 1 On the infotainment screen, move to Home screen.
- 2 On the Home screen, select **Electric Vehicle** > **%** > **Next Departure**.
- 3 Set the anticipated departure schedule.



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

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



### Setting the options for the AC charger

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

- 1 On the infotainment screen, move to Home screen.
- 2 On the Home screen, select Electric Vehicle > \$\forall \cdot > AC Charger.
- 3 Set the required functions.

### Setting scheduled charging

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



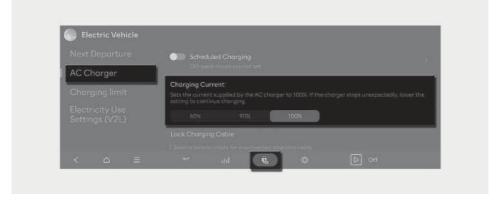
- The scheduled charging option screen appears. Select charging option.
  - **Charge ONLY during Off-peak**: Charging is activated only during the off-peak time. It may not be able to reach the target battery charge level.
  - **Prioritize Off-peak Charging**: Charging is activated during the off-peak time. It may keep on charging pass off-peak time to reach the target battery charge level.

- For more information about setting the target battery charge level, refer to the "Setting the target battery charge level" section in this chapter.



### Setting the charging current

Set the charging current when using an AC charger.



# Setting the target battery charge level

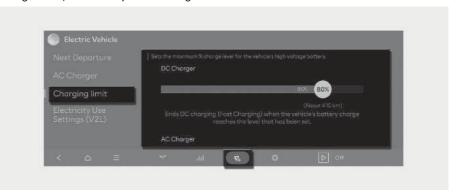
You can set the target battery charge level when charged with an AC charger or a DC charger.

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

#### Information

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

- 2 On the Home screen, select **Electric Vehicle** > **4** > **Charging Limit**.
- 3 Set each of the target battery charge level for AC charger and DC charger.
  - The charging level can be changed by 10 %.
  - If the target battery charge level is lower than the current high voltage battery charge level, the battery is not charged.



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

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

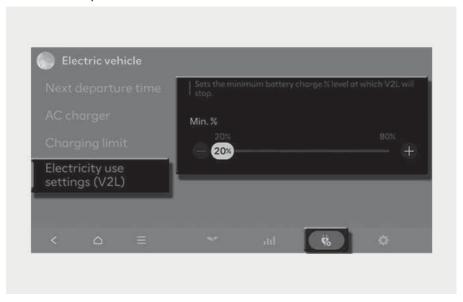
• For more information about V2L function, refer to the "Using V2L function" section in this chapter.

#### Information

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

- 1 On the infotainment screen, move to Home screen.
- 2 On the Home screen, select **Electric Vehicle** > **%** > **Electricity Use Settings (V2L)**.
- 3 Set the desired battery discharging limit (%).
  - The battery discharging limit can only be set below the current battery charge.

When the battery charge reaches the set battery discharging limit, V2L function cuts
off automatically.



### Setting electric vehicle specialized functions

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

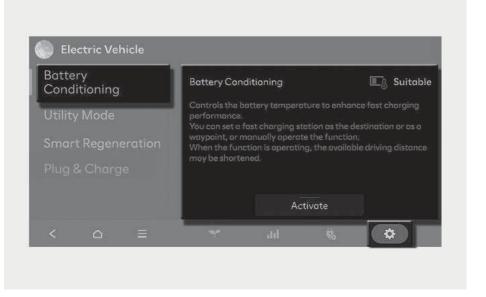
# Using Battery Conditioning

Battery Conditioning function maintains optimal driving performance and keeps the battery temperature ideal for DC charging to help prevent the high voltage battery from degrading. You can manually operate the Battery Conditioning function or automatically operate the function by setting a DC charging station as a destination or a waypoint.

#### Manual operation

1 On the infotainment screen, move to Home screen.

2 On the Home screen, select **Electric Vehicle** > ♣ > **Battery Conditioning** and select **Activate** to use manually.



#### Linked to navigation route

Linked to navigation route If you set a DC charging station as a destination or waypoint on your navigation, the Battery Conditioning function maintains the battery temperature ideal for DC charging while considering the arrival time. This allows drivers to perform DC charging even during hot and cold weather.

#### Information

- Battery Conditioning function operates only in a vehicle equipped with a battery heater.
- Battery Conditioning function does not operate to ensure driving distance when the battery charge level is low. The function also does not operate if the temperature of the battery is ideal for driving and charging.
- The charged power used to raise the temperature of a battery may shorten the driving distance. Reaching the optimal temperature of a battery requires time.
- When you are a member of Bluelink, you can control the battery Conditioning function remotely while parking from the Bluelink app. For more information on Bluelink, refer to the separately supplied manual

# Setting Utility mode

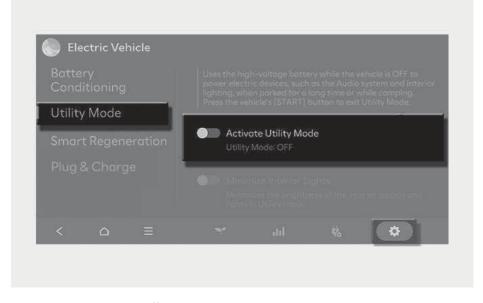
Utility mode allows the high voltage battery to be used instead of the 12 V battery for purposes other than driving. You can use the audio and lights of the vehicle without worrying about discharging the battery and even use the indoor V2L feature.

#### Information

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

Follow the instructions below to set the utility mode.

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



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

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

### Using Plug & Charge (for Europe)

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

#### Setting the Plug & Charge

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

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



#### Information

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

#### Renewing the Plug & Charge

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

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

#### Information

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

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

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

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

#### Managing the Plug & Charge contract

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

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

# Searching for nearby charging stations

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

#### Information

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

Follow the instructions below to search for nearby charging stations:

1 On the infotainment screen, move to Home screen.

2 On the Home screen, select **Electric Vehicle**  $> \equiv >$  **Charging Station List**.



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



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

# **Using V2L function**

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

# Safety precautions when using the V2L function

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

# Precautions when using the V2L function



#### MARNING

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

# Precautions for operating the cooling fan



### MARNING



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

# Precautions for handling and using the V2L connector



### **CAUTION**

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

# Precautions when using electric/electronic products



### CAUTION

- · Before using the product, check the precautions and how to use the product referring to the product manual.
- Only use products that have obtained national safety certification.
- · Only use an electric device that does not exceed the maximum power capacity that the vehicle can supply. However, some of the electric devices may not operate normally even if the product has power consumption less than the maximum power capacity provided by the vehicle.
  - Electric devices that require high power during initial operation.
  - Measuring devices that need to process accurate data.
  - Electric devices that are sensitive to inverter type AC charger.
- Do not use products that require a continuous power supply, such as medical equipment. The power supply may be interrupted depending on the vehicle's condition.
- The V2L discharging mode is blocked automatically in case of overheating. When the discharging mode is blocked, check whether the V2L connector or power plug is contaminated, worn, corroded or broken.
  - If the temperature falls to a proper level after it is left unattended, you can use it again.
  - If overheating repeats when using a certain electric device, do not use the electric device.
- Do not connect more than two extension cords or multi-outlet. Also, when using the extension cable, ensure using the cable without twist. Heat from the overlapped cable may cause fire.
- Do not hang the home appliances onto the wire.
- Do not use if the sheath of home appliance cables is damaged or broken.
- Put the power plug fully when connecting to the power.
- Only use the qualified plug with ground connection that meets the standard. Do not use worn, corroded, or broken plug or improper plug that does not meet the standard.

# Using electricity outside the vehicle

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

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

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



### WARNING

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

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

#### Information

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

### Using electricity inside the vehicle

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



#### WARNING

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

1 Press the Start/Stop button to the ON position or activate the **Utility Mode**.

• For more information about the Utility Mode, refer to the "Setting Utility mode" in this chapter.



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

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



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

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

# **Solving V2L problems**

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

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

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

# **Aux. Battery Saver+**



#### WARNING

When the function is activating the high voltage electricity flows into the vehicle. Follow the instruction below to prevent electrical shock or injuries.

- Do not touch the high voltage electric wire (orange), connector, and all electric components and devices.
- Do not modify or disconnect any electronic devices in your vehicle.

The Aux. Battery Saver+ is a function that specialized in battery protection, prevents the failure due to fully discharge of the 12 V battery.

If the user drives or charges the vehicle, the Aux. Battery Saver+ is automatically activated to check the 12 V battery charging state. If necessary, the high voltage battery charges the 12 V battery.



#### CAUTION

The Aux. Battery Saver+ function cannot prevent the 12 V battery discharging in the following situations:

- The 12 V battery is damaged or worn out.
- The 12 V battery is used as a power supply or unauthorized electronic devices are used.

#### Information

- If the Aux. Battery Saver+ function was activated, the high voltage battery level may have decreased.
- Depending on the condition of the vehicle or high voltage battery, the Aux. Battery Saver+ function may not operate normally or stopped.

# **Driving your electric vehicle**

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

### Starting and stopping the vehicle

Follow the instructions below to start or stop the vehicle.



#### CAUTION

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

### Starting the vehicle

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

#### Information

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

# Stopping the vehicle

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

#### Information

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

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

# Understanding virtual engine sound system

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

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



#### CAUTION

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

### Checking electric vehicle driving information

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

### Factors affecting the distance to empty

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



Type B

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

- The driving habits: The driving speed and tendency of accelerating and decelerating.
  High-speed driving or frequent accelerating and decelerating reduces the distance to
  empty.
- The power usage: Additional power use, such as the air conditioner, heater, lamps, etc. As the power usage increases, the distance to empty reduces.
- The driving conditions: The weather, temperature, and terrain. If you drive in snow/ rain/strong wind or low temperature, the distance to empty will be reduced. The distance to empty will also be reduced when driving uphill or on slippery or rough roads.
- The electric energy: Proportional to the State of Charge (SOC), but may vary depending on the battery temperature and the State of Health (SOH) of a battery.

### Change in the distance to empty when 100 % charged

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

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

# When setting a destination

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

Into		

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

# Tips for enhancing the distance to empty

The distance to empty vary depending on the charge level of the high voltage battery, weather, temperature, duration of the battery use, terrain, driving habits, etc.

You can increase the distance to empty by driving the vehicle following the instructions below.

 The air resistance increases rapidly as the electric vehicle drives faster, so avoid speeding to increase the distance to empty and the electric energy economy.

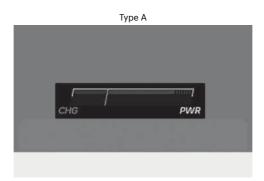
- Rapid acceleration consumes a lot of driving energy and rapid deceleration limits the regenerative braking. Gradually depress and release the accelerator pedal when accelerating or decelerating to maintain speed.
- If you operate the air conditioner or heater too much, the high voltage battery uses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

### When the distance to empty is insufficient

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

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

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



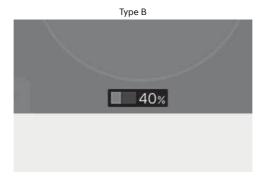
Type B

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

# Checking the State of Charge (SOC)

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





- When the remaining battery of the high voltage battery is lower than 15 %, the warning light is displayed.
- When the warning light is displayed, charge the vehicle.

#### Information

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

# Checking the warning and indicator lights

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



### CAUTION

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

#### Checking the warning lights

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

Warning light	Cause	Measure
Service warning light	This warning light illuminates:  • When there is a problem with related parts of the electric vehicle control system, such as sensors, etc.	In a normal condition, it illuminates for about 3 seconds when the Start/Stop button is in the ON position and then goes off.

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

# Checking the indicator lights

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

Indicator light	Meaning
Charging indicator light	Indicates the charging connector is connected to the high voltage battery.

Indicator light	Meaning
<b>5</b>	When the charging connector is connected, it turns green.
Ready indicator READY	Illuminates when the electric vehicle is ready to be driven, and indicates that the vehicle is operable.  When the vehicle malfunctions, the indicator goes off or blinks.  If the indicator is turned off or blinks, we recommend that your vehicle be inspected and repaired by an authorized HYUNDAI dealer.

#### Checking warning messages

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



# WARNING \_\_\_\_

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

Warning message	Cause	Measure
Low EV charge	The high voltage battery level reaches below 15 %.  • The (≅) warning light on the instrument cluster turns on simultaneously.	Charge the vehicle immediately.
Charge immediately. Power limited	The high voltage battery level reaches below 7 %.  • The (≅) warning light on the instrument cluster turns on simultaneously.  • The vehicle's power may be reduced to minimize the energy consumption of the high voltage battery.	Charge the battery immediately.
Check electric vehicle system	There is a problem with the electric vehicle control system.	Do not drive when the warning message is displayed.      We recommend that you immediately tow the vehicle to an authorized HYUNDAI

Warning message Cause		Measure	
		dealer and have it inspected and repaired.	
Power limited	This warning message is displayed when the power of the vehicle is limited to ensure the safety of high-powered components for the reasons below:  The high voltage battery level is too low or voltage is decreasing.  The temperature of the high voltage battery is too high or too low.  When the driving system is overheated and requires protection.	If it illuminates alone, it did not fail.  Charge the vehicle is the charge level is low.  If both power down indicator light and service warning light illuminate at the same time, we recommend that your vehicle be inspected by an authorized HYUNDAI dealer.  Do not accelerate or start the vehicle suddenly when the warning message is displayed.  Be careful when the power down indicator is displayed.  The vehicle may not properly drive uphill and roll back on a slope.	
Low EV battery temp. Power limited.	If you start or turn off the vehicle when the outside temperature is low, warning message is displayed to protect electric vehicle system.  If the high voltage battery charge level is low and parked outside for a long time, vehicle power could be limited due to the low battery temperature.	Charging the battery before driving helps increase power.     If this warning message are still displayed even after the ambient temperature has increased, we recommend that your vehicle be inspected and repaired by an authorized HYUNDAI dealer.	
EV Battery Overheated! Stop vehicle	The high voltage battery temperature is too high.	<ul> <li>Stop the vehicle in a safe place and turn off the Start/Stop button and wait until the battery temperature decreases.</li> <li>If these warning messages are still displayed even after turning off the vehicle and waiting for a sufficient time, we recommend that you immediately tow the vehicle</li> </ul>	

Warning message	Cause	Measure
		to an authorized HYUNDAI dealer for inspection and repair.
Stop vehicle and check power supply	A failure occurs in the power supply system.	Immediately stop the vehicle in a safe place. We recommend that you tow the vehicle to an authorized HYUNDAI dealer for inspection and maintenance.
Unplug vehicle to start	You started the vehicle with the charging connector plugged in.	Unplug the charging cable and start the vehicle.
Charging door open	You started the vehicle with the charging door opened.	Check if the charging door is completely closed after charging the vehicle.
Charging stopped. Please check the AC(DC) charger	These warning messages are displayed when charging is stopped for the reasons below:  There is a problem with the external AC charger or DC charger.  The external AC charger stopped the charging.  The charging cable is damaged.	<ul> <li>Check whether there is any problem with the external AC or DC charger and charging cable.</li> <li>Charge the vehicle with an AC charger that has been approved for proper operation or a genuine HYUNDAI portable charger.</li> <li>If the same problem occurs, we recommend that your vehicle be inspected by an authorized HYUNDAI dealer.</li> </ul>
Charging Stopped. Check the cable connection.	These warning message is displayed when charging is stopped for the reasons below:  The charging connector is not correctly connected to the charging inlet.  The unlock button on the charging connector is pressed.	Separate the charging connector from the vehicle and reconnect it.  Check whether there is any problem, such as external damage, foreign substances, etc., with the charging connector and charging inlet.  Charge the vehicle with a charger that has been approved for proper operation or a genuine HYUNDAI portable charger.  If the same problem occurs, we recommend that your

Warning message	Cause	Measure
		vehicle be inspected by an authorized HYUNDAI dealer.

### Countermeasures for accidents or fire

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



#### WARNING

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

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

#### If the electric vehicle catches fire

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

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



### CAUTION

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

# If the electric vehicle is submerged

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

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



#### WARNING

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

# If the electric vehicle needs towing

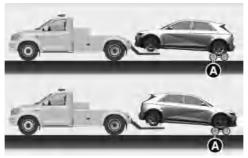
If towing is required, lift all wheels to tow. Towing with the wheels on the ground may damage the vehicle's motor components.



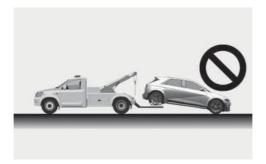
#### CAUTION

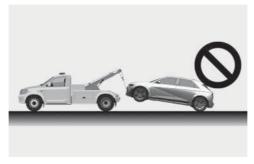
Contact the fire department when towing the vehicle after a fire. When a vehicle fire occurs due to the battery, there is a risk of a second fire.





[A] Dollies





### Other precautions for electric vehicle accidents



# **CAUTION**

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

# 2. Vehicle information

# **Exterior overview (Front view)**

Front view



#### The actual shape may differ from the illustration.

1.	Hood	249
2.	Headlight	270, 744
3.	Tires and wheels	721
4.	Side view mirror	238
5.	Vision roof	246
6.	Front windshield wiper blades	285, 714
7.	Windows	241

# **Exterior overview (Rear view)**

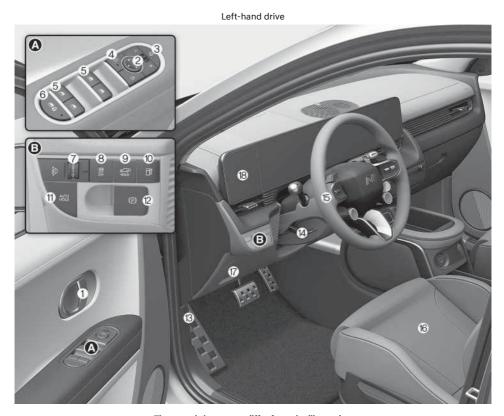
#### Rear view



# The actual shape may differ from the illustration.

1.	Door	212
2.	Electric charging door	261
	Rear combination light	
4.	Power tailgate	251
5.	High mounted stop light	749
6.	Rear window wiper blades	289, 714
7.	Rear fog light	748
8.	Antenna	331
9.	License plate light	749

# Interior overview



The actual shape may differ from the illustration.

1.	Inside door handle	215
2.	Side view mirror control switch	. 239
3.	Side view mirror folding button	. 239
4.	Central door lock switch	. 216
5.	Power window switches	241
6.	Power window lock button	244
7.	Headlight leveling device	. 274
8.	ESC (Electronic Stability Control) OFF button	371
9.	Power tailgate button	. 253
10.	Electric charging door open switch	. 261
11.	AUTO HOLD button	366
12.	EPB (Electronic Parking Brake) switch	363
13.	Hood release lever	. 249
14.	Steering wheel tilt/telescopic switch	227
15.	Steering wheel	.227

16.	Seat	. 95
17.	Fuse box	730
18.	Cluster fascia side panel	322





# The actual shape may differ from the illustration.

1.	Inside door handle	215
2.	Side view mirror control switch	239
3.	Side view mirror folding button	. 239
4.	Central door lock switch	. 216
5.	Power window switches	241
6.	Power window lock button	244
	Headlight leveling device	
8.	ESC (Electronic Stability Control) OFF button	. 371
9.	Power tailgate button	. 253
	Electric charging door open switch	
11.	AUTO HOLD button	366
12.	EPB (Electronic Parking Brake) switch	363
	Hood release lever	

14. Steering wheel tilt/telescopic switch	22
15. Steering wheel	
16. Seat	
17. Fuse box	730
18 Cluster fascia side nanel	33.

# **Center console overview**

#### Left-hand drive



# The actual shape may differ from the illustration.

1.	Instrument cluster	157
2.	Horn	229
3.	Driver's front air bag	140
	Start/Stop button	
	Rotary shifter (Rotary gear shift dial)	
6.	Infotainment system	332
7.	Hazard warning flasher switch	655
8.	Automatic climate control system	291
	USB Port/charger	
	USB Port/charger convert button	
	USB Charger	
	Wireless charging system indicator	
	Wireless smartphone charging system	
	Parking/View button	
	Parking Safety button	

16. Power outlet	319
17. Center console	315
18. Glove box	316
19. Passenger's front air bag	140

Right-hand drive

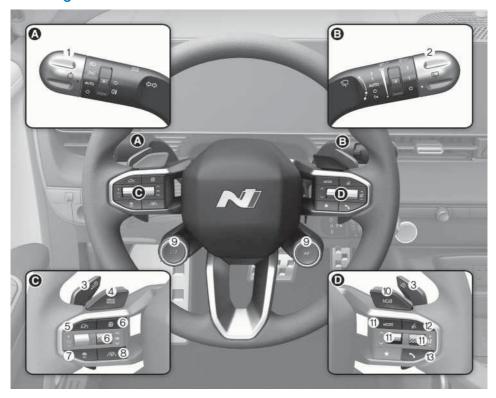


# The actual shape may differ from the illustration.

1.	Instrument cluster	157
	Horn	
3.	Driver's front air bag	140
4.	Start/Stop button	337
5.	Rotary shifter (Rotary gear shift dial)	342
6.	Infotainment system	332
7.	Hazard warning flasher switch	655
8.	Automatic climate control system	291
9.	USB Port/charger	0,320
10.	USB Port/charger convert button	320
11.	USB Charger	320
12.	Wireless charging system indicator	323

13. Wireless smartphone charging system	323
14. Parking/View button	
15. Parking Safety button	
16. Power outlet	319
17. Center console	315
18. Glove box	316
19. Passenger's front air bag	140

# **Steering wheel control overview**



# The actual shape may differ from the illustration.

	Lighting control lever	
2.	Wiper and washer control lever	285
3.	Paddle shifter	349
4.	Driving mode button	386
5.	Driving Assist button	517
6.	Cluster display controls	185
7.	Vehicle Distance button	. 517
8.	Lane Driving Assist button	454
	N1/N2 button	
	NGB button	
11.	Audio remote control buttons	. 331
12.	Voice recognition button	.333
13.	Bluetooth® hands-free phone button	.333

# **Motor compartment overview**



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

1.	Coolant reservoir	706
2.	Windshield washer fluid reservoir	711
3.	Brake fluid reservoir	709
4.	Fuse box	729
5	Battery (12 V)	717
	Cahin air filter	

# **Dimensions**

Items	mm (in.)	
Overall length	4,715 (185.63)	
Overall width	1,940 (76.37)	
Overall height	1,585 (62.40)	
Front tread	1,667 (65.63)	
Rear tread	1,672 (65.83)	
Wheelbase	3,000 (118.11)	

# **Electric vehicle specifications**

Ite	Standard type		
Maker	Max. output (With N Grin Boost)(kW)	Front 166 + Rear 282 (Front 175 + Rear 303)	
Motor	Max. torque (With N Grin Boost) (N·m)	Front 350 + Rear 390 (Front 370 + Rear 400)	
	Capacity (kWh)	84.0	
Battery (Lithium-ion)	Power output (kW)	535/432	
	Voltage (V)	697	
Charger (OBC: On-Board Battery Chargers)	Max. output (kW)	10.9 (with single-phase current) 10.5 (with three-phase current)	

# **Bulb wattage**

	Light bulb		Bulb type	Wattage
	I I a a dili a la t	Low	LED	LED
	Headlight	High	LED	LED
Front	Daytime running li	ght/Position light	LED	LED
	Turn signal light		LED	LED
	Side repeater light		LED	LED
	Tail/Stop light		LED	LED
	Turn signal light		LED	LED
Rear	Backup light		LED	LED
Rear	High mounted stop	o light	LED	LED
	Fog light		LED	LED
	License plate light		LED	LED
	Map lamp		LED	LED
	Room lamp		LED	LED
	Cargo area lamp	Cargo area lamp		LED
Interior	Vanity mirror lamp		LED	LED
	Mood lamp (Front seat door lamp, Passenger seat open tray lamp)		LED	LED
	Glove box lamp		LED	LED

#### Tires and wheels

					Inflat					
Items		Tire size Wheel size		***.		111111 A		Track Driving <sup>*1</sup>		Wheel nut torque kgf·m (lbf·ft, N·m)
				Front	Rear	Front	Rear	Front	Rear	
	Full size tire	275/35ZR21	9.5J X 21	240	(35)	250 (36)	300 (44)	230 (33)	220 (32)	18-20 (130-145, 176-196)

<sup>\*1:</sup> Refers to the recommended inflation pressure for the hot tire condition (state when the tire temperature in increased). Limited number of passengers is 2 with no luggage. After the track driving is complete, change to the appropriate tire inflation recommended for the normal road and driving condition.

#### NOTICE

- It is permissible to add 20 kPa (3 psi) to the standard tire pressure specification if colder temperatures are expected soon.
  - Tires typically lose 7 kPa (1 psi ) for every 7 °C (12 °F) temperature drop. If extreme temperature variations are expected, recheck your tire pressure as necessary to keep them properly inflated.
- Tire inflation pressures may differ depending on changes in elevation (about 10 kPa (1.4 psi) for every 1 km (1 mi.) elevation change). If driving in areas of higher or lower elevation, be sure to check and adjust for proper tire inflation.
- Do not exceed the maximum inflation pressure, as found on the sidewall of the tire(s).



# **CAUTION**

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

# Load and speed capacity tires

lhomo	Tive size	Wheel size	Load capacity		Spee	d capacity
Items	Tire size	Wheel size	LI <sup>*1</sup>	kg	SS*2	km/h
Full size tire	275/35ZR21	9.5J X 21	103	875	Y	300

<sup>\*1:</sup> LOAD INDEX \*2: SPEED SYMBOL

# Air conditioning system

Item		Weight of volume	Classification
Defeirement	Туре А	900±25 g (32±0.9 oz.)	R-1234yf
Refrigerant	Туре В	950±25 g (34±0.9 oz.)	R-134a
Compressor lubricant		180±10 g (6.35±0.35 oz.)	POE

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

# Vehicle weight and luggage volume

	Value		
Gro	2,660 kg (5,864 lbs.)		
	Max.	behind 1st row	1,540 ℓ (54.38 cu ft.)
Luggage volume	Min.	behind 2nd row	480 ℓ (16.95 cu ft.)

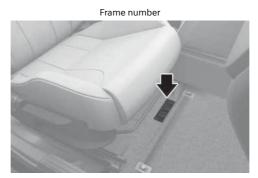
# **Recommended lubricants and capacities**

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

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

Lubricant		Volume	Classification
Reduction gear fluid	Front	3.2 ℓ (3.38 US qt.)	HK ATF 65 SP4M-1
	Rear	3.4 ℓ (3.59 US qt.)	
Coolant		16.62 ℓ (17.56 US qt.)	Designated coolant water for electric vehicles
Brake fluid		As needed	SAE J1704 DOT-4 LV, FMVSS 116 DOT-4, ISO 4925 CLASS-6
Electronic Limited Slip Differential (e-LSD) oil		480 ± 15 ml (0.51 ± 0.02 US qt.)	SHELL TF0870 C

# **Vehicle Identification Number (VIN)**



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

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



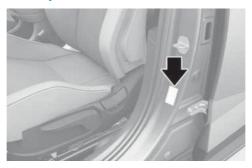
The VIN is also on a plate attached to the top of the left side dashboard. The number on the plate can easily be seen through the windshield from outside.

# **Vehicle certification label**



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

# Tire specification and pressure label

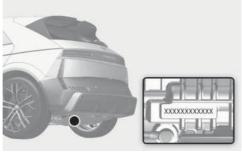


The tires supplied on your new vehicle are chosen to provide the best performance for normal driving.

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

# **Motor number**





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

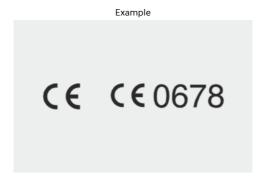
# Air conditioner compressor label



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

# **Declaration of conformity**





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

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

http://service.hyundai-motor.com

# **Importer information (for Europe)**

Hyundai Motor Europe GmbH Kaiserleipromenade 5, 63067 Offenbach, Germany T +49 (0) 69 27 1472 -0 www.hyundai.com/eu

# Open source software notice

This vehicle contains software with open source licenses. Open source software information including the source code, copyright notices and referred license terms may be obtained on the website

https://www.hyundai.com/worldwide/opensource

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

# **IMPORTER & DISTRIBUTOR INFORMATION FOR EU BATTERY REGULATION (EU 2023/1542)**

Provide importer and distributor information on the battery parts below.

Battery Type (If equipped)			
Electric vehicle battery	SLI battery		
Portable battery	Portable battery of General use		

- 1 Name of importer & Distributor: Hyundai Motor Europe GmbH
- 2 Trade Name: Hyundai
- 3 Address: Kaiserleipromenade 5, 63067 Offenbach, Germany
- 4 Single contact point: +49 (0) 69 27 1472 -0
- 5 Web address: www.hyundai.com/eu
- 6 E-mail: customercare@hyundai-europe.com

# Manufacturer Information EV High Voltage Battery



#### Manufacturer

Hyundai Mobis Co. Ltd.

• Address: 203, Teheran-ro, Gangnam-gu, Seoul, 06141, Korea

# Manufacturer Information SLI Battery



#### Manufacturer

SEBANG GLOBAL BATTERY

- Battery Type: SLI Battery (12V Battery)
- Address: 433, Seolleung-ro, Gangnam-gu, Seoul, Korea 122, Jeongdong-ro, Seongsan-gu, Changwon-si

# Manufacturer Information (if equipped) Smart key



#### Manufacturer

Energy Device Business Division Panasonic Energy Co., Ltd.

- Battery Type: CR2450
- Address: 1-1 Matsushita, Moriguchi City, Osaka, 570-8511, Japan

• **Tel**: +81-6-6991-1141

• Website: https://www.panasonic.com/global/energy.html

# Manufacturer Information eCall system (if equipped)



#### Manufacturer

Shandong Goldencell Electronics Technology Co.,Ltd

• Battery Type: Portable Battery

 Address: Fuyuan 5 Rd. Lithium Battery Industrial Park, Hi-tech District, Zaozhuang City, Shandong Province, China

• Tel: +86-400-812-5699

Website: www.goldencellbattery.cn
 Email Address: service@goldencell.biz

# Manufacturer Information TPMS Battery (if equipped)



#### Manufacturer

Continental Automotive Technologies GmbH

 Battery Type: CR2032 or CR2450 complies with the essential requirements of Regulation (EU)2023/1542

• Address: Continental-Plaza 1 D-30175 Hanover Germany

• Website: https://www.continental-automotive.com

#### Information

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

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

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

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

Information \_\_\_\_\_



This product must not be treated as household waste

# 3. Seats & Safety system

# Important safety precautions

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

# Always wear your seat belt

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

### Restrain all children

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

# Airbag hazards

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

### **Driver distraction**

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

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

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

# Never drink or take drugs and drive

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

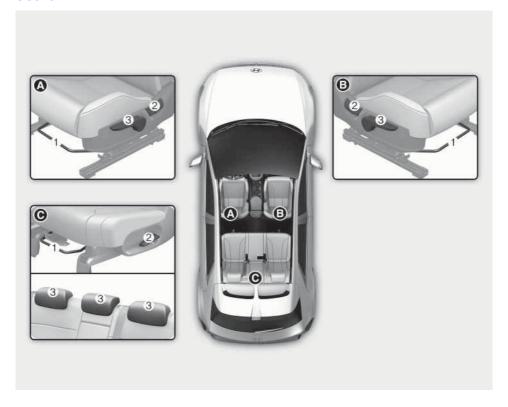
#### **Control your speed**

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

# Keep your vehicle in safe condition

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

# **Seats**



# Driver's seat [A]

- 1. Forward or rearward
- 2. Seatback angle
- 3. Seat height

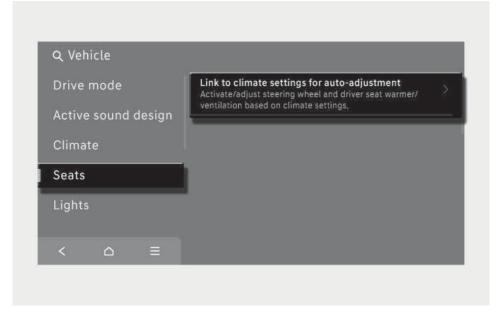
# Front passenger's seat [B]

- 1. Forward or rearward
- 2. Seatback angle
- 3. Seat height

# Rear seat [C]

- 1. Forward or rearward
- 2. Seatback folding lever
- 3. Headrest

# Infotainment system



Select **Settings** > **Vehicle** > **Seat** in the infotainment system. You may use various convenience functions.

Link to climate settings for auto-adjustment: The seat warmer and air ventilation seat
is automatically controlled depending on the ambient temperature and set climate
control temperature.

#### Information

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

#### Information

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

# **Safety precautions**

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

### WARNING

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

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

#### **Airbags**

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



#### WARNING

To reduce the risk of serious injury or death from an inflating airbag:

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

#### Seat belts

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



### WARNING

To prevent serious injury or death:

- 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

To prevent serious injury or death:

- 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 a collision.
- Do not place anything under the front seats. Loose including unsecured floor mats, in the driver's foot area could interfere with the operation of the foot pedals.
- 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.
- · Use extreme caution when picking up small objects trapped under the seats or between the seat and the center console. Your hands might be cut or injured by the sharp edges of the seat mechanism.
- If there are occupants in the rear seats, be careful while adjusting the front seat.
- Make sure that the seat is locked in place after the adjustment. If not, the seat might move unexpectedly.

# Reclining seatback

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

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

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



#### WARNING

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

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

Driver and passengers should always sit well back in their seats, 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 a collision, you could be thrown into the seat belt, causing neck or other injuries.

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

# Seat adjustment

The front seat can be adjusted by using the levers located underneath the front part of the seat or on the outer side of the seat.

#### Forward and rearward adjustment



#### To move the seat forward or rearward:

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

#### Seatback angle



#### To recline the seatback:

- 1 Lean forward slightly and lift up the seatback lever.
- 2 Carefully lean back on the seat and adjust the seatback to the desired position.
- 3 Release the lever and make sure the seatback is locked in place.

#### Seat height



To change the height of the seat cushion:

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

#### **Rear seats**

# Seat adjustment

Forward and rearward adjustment



To move the seat forward or rearward:

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

#### Information

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

#### Seatback angle



#### To recline the seatback:

- 1 Pull up the seatback recline lever.
- 2 Hold the lever and adjust the seatback of the seat to the position you desire.
- 3 Release the lever and make sure the seatback is locked in place. (The lever MUST return to its original position for the seatback to lock.)
- \* The seatbacks can be folded with the seatback recline lever.

# Folding the rear seats

The rear seatbacks can be folded to facilitate carrying long items or to increase the rear cargo volume in the vehicle.



# MARNING .

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

#### To fold down the rear seatback:

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

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



3 Route the seat belt webbing to the both sides of the rear seat to prevent the belts from being damaged.



4 Pull up the seatback folding lever (1), then fold the seat toward the front of the vehicle (2).



To unfold the rear seatback:

1 Lift and push the seatback rearward (2) while lifting up the front portion of the folding lever (1).



- 2 Push the seatback firmly until it clicks into place. Make sure the seatback is locked in place.
- 3 Return the rear seat belt to the proper position.



#### MARNING

Lock the seatback properly. In a collision or sudden stop, an unlocked seatback may allow cargo to move forward with great force and may result in serious injury or death.



# **MARNING**

Cargo should always be secured to prevent it from moving in a collision and causing serious injury or death to the vehicle occupants. Do not place objects in the rear seats, because they cannot be properly secured and may hit the front seat occupants in a collision.

#### Armrest



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

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

#### Headrest

The vehicle's rear seats have adjustable headrests. The headrests provide comfort for passengers, but more importantly they are designed to help protect passengers from whiplash and other neck and spinal injuries during an accident, especially in a rear impact collision. When there are no occupants in the rear seats, adjust the rear headrests to the lowest height to improve the driver's visibility.



#### WARNING

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

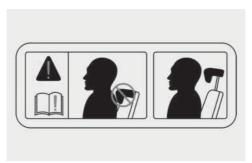
- · Always adjust the headrests properly for rear seat(s) passengers BEFORE starting the vehicle.
- Never let anyone ride in a seat with the headrest removed or reversed.
- Adjust the headrests so that the middle of the headrest is at the same height as the top of the eyes.



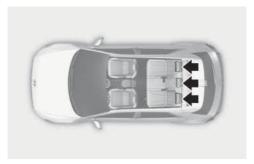
- · Adjust the headrest as close to the passenger's head as possible. Do not use a seat cushion that holds the body away from the seatback.
- Make sure the headrest locks into position after adjusting it.



When passengers are sitting on the rear seats, always raise the headrests above the lowest stored position.



## Rear seat headrests



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

## Adjusting the height up and down



To raise the headrest:

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

To lower the headrest:

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

#### Removal/Reinstallation

To remove the headrest:

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



#### To reinstall the headrest:

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



#### **Seats warmers**

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

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



## WARNING

The seat warmers can cause a serious burns, even at low temperatures and especially if used for long periods of time.

Passengers must be able to feel if the seat is becoming too warm so they can turn it off, if needed.

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

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

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

Never place anything on the seat that insulates against heat when the seat warmer is operating, such as a blanket or seat cushion.

#### NOTICE

To prevent damage to the seat warmers and seats:

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

#### Front seat warmers



Press \*\*\*\* button in the front climate control panel.



To activate seat warmer of each front seats, touch the button on the infotainment screen.

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

#### Rear seat warmers



While the vehicle is running, press the seat warmer switch to warm the rear seat.

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

Operating rear seat warmers from the front seats

The rear seat warmers can be adjusted from the front seats.



Press  $\text{\tiny TEMP} / \text{\tiny CS}$  button in the front climate control panel.



To activate seat warmer of each rear seats, touch the button on the infotainment screen.

## Air ventilation seats

## tif equipped

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

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

#### NOTICE

To prevent damage to the air ventilation seats:

- Never use a solvent such as paint thinner, benzene, alcohol, or gasoline to clean the seats.
- Avoid spilling liquids on the surface of the front seats and seatbacks. This may cause
  the air vent holes to become blocked and not to 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 not to work properly.
- · Do not change the seat covers.
- If the air vents do not operate, restart the vehicle. If there is no change, we recommend that your vehicle be inspected by an authorized HYUNDAI dealer.

## Front air ventilation seats



Press button in the front climate control panel.



To activate air ventilation of each front seats, touch the button on the infotainment screen.

- Press the button repeatedly to cycle though the airflow speeds from high to medium, low, and off.
- The air ventilation seat defaults to the OFF position whenever the Start/Stop button is pressed to the ON position.

## Seat belts

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

## Seat belt safety precautions

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



## WARNING

Seat belts must be used by ALL passengers whenever the vehicle is moving. To prevent serious injury or death:

- Children under the age of 13 should be properly restrained in the rear seats.
- Never allow children to ride in the front passenger seat, unless the airbag is deactivated. If a child is seated in the front passenger seat, move the seat as far back as possible. And the child must always be restrained in the seat properly.
- NEVER allow an infant or child to be carried on an occupant's lap.
- NEVER ride with the seatback reclined when the vehicle is moving.
- Do not allow children to share a seat or seat belt.
- Do not wear the shoulder belt under your arm or behind your back.
- Do not use the seat belt if it is twisted. A twisted seat belt will not protect you properly in a collision.
- Do not use a seat belt if the webbing or hardware is damaged.
- Do not latch the seat belt into the buckles intended for other seating positions.
- Never unfasten the seat belt while driving. This may cause loss of vehicle control resulting in a collision.
- Make sure there is nothing in the buckle that could interfere with the seat belt latch mechanism from fastening securely.
- Never modify seatbelt or install devices that may prevent seatbelt assembly from removing slack.
- Do not use a seat belt if the webbing or hardware is damaged. We recommend that the seat belt be replaced by an authorized HYUNDAI dealer.



## MARNING

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

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

## Seat belt warning light

## Driver's seat belt warning





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

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

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

## Front passenger's seat belt warning

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

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

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



## WARNING

Riding in an improper position may adversely affect the front passenger's seat belt warning system. Instruct the passenger to properly be seated when the vehicle is moving.

#### Information

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

## Rear passenger's seat belt warning



## For rear left and right side seat

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

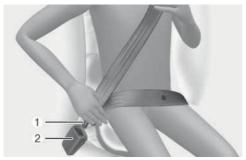
#### For rear center seat

- As a reminder to the rear passenger, the rear passenger's seat belt warning lights illuminates for about 6 seconds each time the Start/Stop button is in the ON position regardless of seat belt fastening.
- If the seat belt is not fastened when the Start/Stop button is in the ON position, the seat belt warning light will illuminate for about 70 seconds.
- If the passenger continues to not fasten their seat belt or unfasten their seat belt and you drive under 20 km/h (12 mph), the corresponding warning light continues to illuminate for about 70 seconds.
- If the passenger continues to not fasten their seat belt or unfasten their seat belt and you drive over 20 km/h (12 mph), the seat belt warning chime sounds for about 35 seconds and the corresponding warning light blinks.
- If the rear door is opened or closed under 10 km/h (6 mph), the seat belt warning chime and corresponding warning light does not work even if you drive over 20 km/h (12 mph).

## Seat belt restraint system

## Lap/shoulder belt

To fasten your seat belt:



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



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 extends and moves 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 cannot smoothly pull the seat belt out from the retractor, firmly pull the seat belt out and release it. After release, the belt may be pulled out smoothly.

# WARNING

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

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

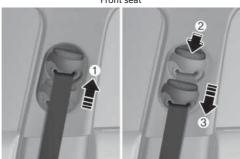
## Height adjustment

Adjust the height of the shoulder belt so that it lies across your chest and midway over your shoulder nearest the door, not over your neck.

Adjust the height of the shoulder belt so that it lies across your chest and midway over your shoulder nearest the door, not over your neck.

To adjust the height of the seat belt anchor:

• Pull it up (1) to raise the height. To lower it, push it down (3) while pressing the height adjuster button (2). Release the button to lock the anchor in place. Try pushing the height adjuster down to make sure that it is locked in place.



Front seat

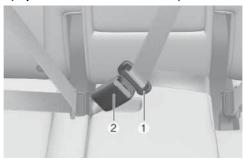
To release your seat belt:

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



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

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



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

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

#### Information

If you cannot pull out the safety belt from the retractor, firmly pull the belt out and release it. After release, pull out the belt smoothly.

#### Pretensioner seat belt



Your vehicle is equipped with driver's, front passenger's and rear passengers' (except rear center seat) pretensioner seat belts (retractor pretensioner). The pretensioner makes sure the seat belts fit tightly against your body in certain frontal or side collision(s). The pretensioner seat belts may be activated in some crashes where the frontal or side collision(s) is severe enough, together with the airbags.

When the vehicle stops suddenly, or if you try to lean forward too quickly, the seat belt retractor locks in place.

In some frontal collisions, the pretensioner activates and pulls the seat belt against your body.

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



## MARNING

To prevent serious injury or death:

- Always wear your seat belt and sit properly in your seat.
- · Do not use the seat belt if it is loose or twisted.
- · Do not place anything near the buckle.
- Always replace your pretensioners after activation or an accident.
- NEVER inspect, service, repair or replace the pretensioners by yourself. We recommend that the pretensioners be inspected, serviced, repaired, or replaced by an authorized HYUNDAI dealer.
- · Do not hit the seat belt assemblies.

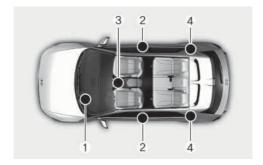


## 🛝 WARNING \_

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



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



The pretensioner seat belt system consists mainly of the following components. Their locations are shown in the illustration above:

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

#### NOTICE

The sensor that activates the SRS control module is connected with the pretensioner seat belt. The SRS airbag warning light on the instrument cluster illuminates for about 3-6 seconds after the Start/Stop button is in the ON position, and then turns off.

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

#### Information

- Pretensioner seat belts may be activated in certain frontal or side collisions or rollover situations.
- When the pretensioner 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 pretensioner seat belts were activated.

## Additional seat belt safety precautions

## Seat belt use during pregnancy

The seat belt should always be used during pregnancy. The best way to protect your unborn child is to protect yourself by always wearing the seat belt.

Pregnant women should always wear a lap-shoulder seat belt. Place the shoulder belt across your chest, routed between your breasts and away from your neck. Place the lap belt below your belly and pull the shoulder portion so that it fits SNUGLY across your hips and pelvic bone, under the rounded part of your belly.



#### WARNING

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

#### Seat belt use and children

#### Infant and small children

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

For more information refer to the "Seat belt safety precautions" section in this chapter.



## WARNING

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

To reduce the risk of serious injury or death to a child and other passengers, never hold a child in your lap or arms when the vehicle is moving. Violent forces during a collision may tear the child from your arms and throw the child against the interior or to be ejected from the vehicle.

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

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

#### Larger children

Children under age 13 and who are too large for a booster seat should always occupy the rear seat and use the available lap/shoulder belts. A seat belt should be snug against the hips and be snug across the shoulder and chest to restrain the child safely. A child's squirming could move the belt out of position. Adults should frequently check belt fit. In a collision, the safest place for children is in the rear seats, using a Child Restraint System appropriate for the child.

If a larger child over age 13 must be seated in the front seat, the child must be securely restrained by the available seat 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, the child needs to return to an appropriate booster seat in the rear seat.



## MARNING .

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

## Seat belt use and injured people

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

## One person per belt

When two people (children or adults) are sitting together, never attempt to use a single seat belt. This could increase the severity of injuries in a collision.

## Do not lie down

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

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

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

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



## MARNING

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

#### Care of seat belts

Seat belt systems should never be disassembled or modified.

## Periodic inspection

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

## Keep belts clean and dry

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

## When to replace seat belts

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

## **Child Restraint System (CRS)**

## Our recommendation: Children always in the rear



## MARNING

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

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

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

Most countries have child restraint regulations that require children to travel in approved Child Restraint Systems.

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

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

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

## Child Restraint System

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



## MARNING

Do not use an improperly secured Child Restraint System. It may increase the risk of serious injury or death in a collision. When using a Child Restraint System:

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

## Selecting a Child Restraint System (CRS)

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

- Make sure the Child Restraint System has a label certifying that it meets applicable Safety Standards of your country.
  - A Child Restraint System may only be installed if it was approved in accordance with the requirements of ECE-R44 or ECE-R129.
- Select a Child Restraint System based on your child's height and weight. The required label or the instructions for use typically provide this information.
- Select a Child Restraint System that fits the vehicle seating position where it is to be used.
- · Read and comply with the warnings and instructions for installation and use provided with the Child Restraint System.

## Child Restraint System types

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

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

## Rearward-facing Child Restraint System



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

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

## Forward-facing Child Restraint System



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

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

#### **Booster seats**

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

For a seat belt to fit properly, the lap belt must lie 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 be properly restrained to minimize the risk of injury in an accident, sudden stop, or sudden maneuver.

## **Installing a Child Restraint System**



## WARNING

Before installing your Child Restraint System, always read and follow the instructions provided by the manufacturer of the Child Restraint System.

System and in this manual to prevent serious injury or death if a collision occurs.



## WARNING

If the vehicle headrest prevents proper installation of a Child Restraint System (as described in the Child Restraint System manual), readjust or remove the headrest for that seating position

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

· Properly secure the Child Restraint System to the vehicle. All Child Restraint Systems must be secured to the vehicle with a lap/shoulder belt or with an ISOFIX top tether and/or ISOFIX anchorage and/or with a support leg.

- Make sure the Child Restraint System is firmly secured. After installing a Child Restraint
  System to the vehicle, push and pull the seat forwards and backwards and from side
  to side to verify that it is securely attached to the seat. Install a Child Restraint System
  secured with a seat belt as tightly as possible. Some side-to-side movement can be
  expected.
- Secure the child in the Child Restraint System. Make sure the child is properly strapped in the Child Restraint System according to the Child Restraint System manufacturer's instructions.

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#### **CAUTION**

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

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

(Information for vehicle users and CRS manufacturers)

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

CRS categories		Seating positions						
			3					
			Airbag ON	Airbag OFF	4	5	6	
Universal belted CRS	All mass groups	-	No	Yes <sup>*1</sup> (F, R)	Yes (F, R)	Yes (F, R)	Yes (F, R)	
i-size CRS	ISOFIX CRF : F2, F2X, R1, R2	-	No	No	Yes (F, R)	No	Yes (F, R)	
Carry-cot (ISOFIX lateral facing CRS)	ISOFIX CRF: L1, L2	-	No	No	No	No	No	
ISOFIX infant* CRS (*: ISOFIX baby CRS)	ISOFIX CRF: R1	-	No	No	Yes (R)	No	Yes (R)	
ISOFIX toddler CRS - small	ISOFIX CRF: F2, F2X, R2, R2X	-	No	No	Yes (F, R)	No	Yes (F, R)	

CRS categories		Seating positions						
			3					
5.00 S.00 S.00	CR3 Categories		Airbag ON	Airbag OFF	4	5	6	
ISOFIX toddler CRS * large* (*: not booster seats)	ISOFIX CRF: F3, R3	-	No	No	Yes (F, R)	No	Yes (F, R)	
Booster Seat - reduced Width	ISO CRF: B2	-	No	No	Yes	No	Yes	
Booster Seat - full Width	ISO CRF: B3	-	No	No	Yes	No	Yes	

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

F: Forward facing, R: Rearward facing

#### Information

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

Seat number	Position in the vehicle	Seating positions
1	Front left	
2	Front center	
3	Front right	
4	Second row left	
5	Second row center	7
6	Second row right	

- If the vehicle headrest prevents proper installation of a CRS, the headrest of the seating
  position shall be readjusted or entirely removed.
- Never place a rearward facing Child Restraint System on the front passenger seat, unless the air bag is deactivated.

## Recommended Child Restraint Systems (for Europe)

Mass Group	Name	Manufacturer	Type of Fixation	ECE Approval Number
Group 0+	BABY-SAFE 2 i-SIZE and BABY-SAFE i- SIZE BASE	Britax Romer	ISOFIX with support leg, rearward facing	R129/00 - E1 - 000008
Group 1	Trifix2 i-Size	Britax Romer	ISOFIX and top- tether	129R-010015
Group 2	KidFix II R	Britax Romer	ISOFIX and vehicle belt,using CRS lap belt guide	R44/04 - E1 - 04301304
Group 3	viaggio 2-3 shuttle	Peg Perego	ISOFIX and vehicle belt	ECE R44/04 - E24 - 0000256

CRS Manufacturer information

Britax Romer http://www.britax.com

Peg Perego: http://www.pegperego.com/

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

(Information for vehicle users and CRS manufacturers)

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

		Seating positions					
CRS categories			3				
		,2	Airbag ON	Airbag OFF	4	5	6
Universal belted CRS	All mass groups   -	-	No	Yes <sup>*1</sup>	Yes	Yes	Yes

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

<sup>\*1:</sup> To install Universal CRS, 1st row passenger seat height should be at its highest position.

F: Forward facing, R: Rearward facing

## Information

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

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

- · If the vehicle headrest prevents proper installation of a CRS, the headrest of the seating position shall be readjusted or entirely removed.
- · Never place a rearward facing Child Restraint System on the front passenger seat, unless the air bag is deactivated.

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

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

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

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

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

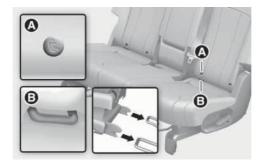


ISOFIX anchorages have been provided in the left and right outboard rear seating positions. Their locations are shown in the illustration. There are no ISOFIX anchorages provided for the center rear seating position.



## WARNING

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



- [A] ISOFIX anchorage position indicator (Type A: (S), Type B: (E))
- [B] ISOFIX anchorage

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

Both rear outboard seats are equipped with a pair of ISOFIX anchorages as well as a corresponding top tether anchorage on the back side of the rear seats.

(Child Restraint Systems with universal approval according to ECE-R44 or ECE-R129 need to be fixed additionally with a top tether connected to the back side of the rear seats.)

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

# **MARNING**

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

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

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

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

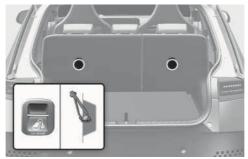


#### WARNING

Take the following precautions when using the ISOFIX system:

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

## Securing a Child Restraint System seat with Top Tether Anchorage system



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

Top tether anchorages are located on the rear of the seatbacks.



To install the top tether anchor:

- 1 Route the Child Restraint System top tether strap over the seatback. Route the tether strap under the headrest and between the headrest posts, or route the top tether strap over the top of the vehicle seatback. Make sure the strap is not twisted.
- 2 Connect the top tether strap hook to the top tether anchorage, then tighten the top tether strap according to the instructions of your Child Restraint System's manufacturer to firmly secure the Child Restraint System.
- 3 Check the Child Restraint System is secure by pushing and pulling the seat forward and back and side-to-side.



## WARNING

Take the following precautions when installing the top tether anchorage:

- Read and follow all installation instructions provided with your Child Restraint System.
- · Never attach more than one Child Restraint System to a single ISOFIX top tether anchorage. This could cause the anchorage or attachment to come loose or break.
- · Only attach the top tether strap to the correct top tether anchorage for that seating position.
- Child Restraint System anchorages are designed to withstand only those loads imposed by correctly fitted Child Restraint System.
  - Under no circumstances are they to be used for adult seat belts or harnesses or for attaching other items or equipment to the vehicle.

## Securing a Child Restraint System with a lap/shoulder belt

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



Installing a Child Restraint System with a lap/shoulder belt To install a Child Restraint System on the rear seats:

- 1 Place the Child Restraint System on a rear seat and route the lap/shoulder belt around or through the Child Restraint System, following the Child Restraint System manufacturer's instructions. Make sure the seat belt webbing is not twisted.
- 2 Fasten the lap/shoulder belt latch into the buckle. Listen for the distinct "click" sound.



#### Information

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

3 Remove as much slack from the belt as possible by pushing down on the Child Restraint System while feeding the shoulder belt back into the retractor.

4 Push and pull on the Child Restraint System to confirm that the seat belt is holding it firmly in place.

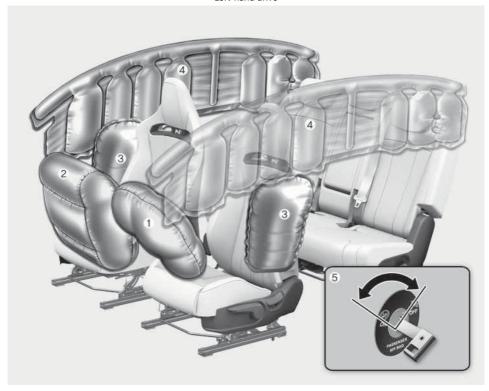


If your Child Restraint System manufacturer instructs or recommends you to use a top tether anchorage with the lap/shoulder belt, refer to "Securing a Child Restraint System seat with Top Tether Anchorage system" section for more information.

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

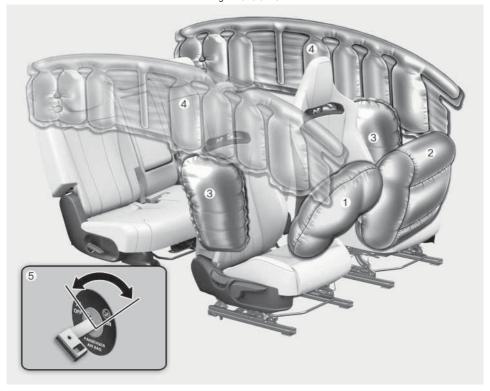
## Airbag - supplemental restraint system

Left-hand drive



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

- 1. Driver's front airbag
- 2. Passenger's front airbag
- 3. Side airbag
- 4. Curtain airbag
- 5. Front passenger airbag ON/OFF switch



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

- 1. Driver's front airbag
- 2. Passenger's front airbag
- 3. Side airbag
- 4. Curtain airbag
- 5. Front passenger airbag ON/OFF switch

Your vehicle is equipped with a Supplemental Airbag System for the driver's and front passenger's seats.

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

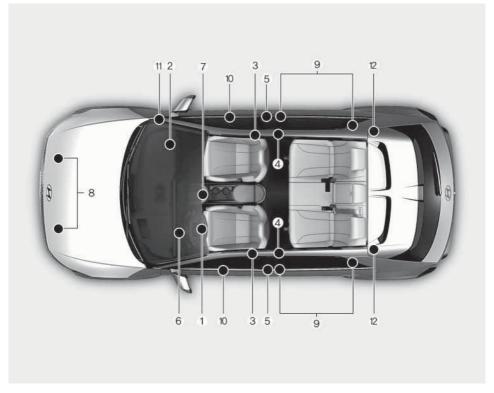
You can be severely injured or killed in an accident if you are not wearing a seat belt. Airbags are built into the vehicle as a supplementary system. They are not intended as a replacement for wearing 3-point seat belts. Also, airbags are not designed to deploy in every collision. In some accidents,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

# WARNING

#### AIRBAG SAFETY PRECAUTIONS

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

## **SRS** Components



## The SRS consists of the following components:

- 1. Driver's front airbag module
- 2. Passenger's front airbag module
- 3. Side airbag modules
- 4. Curtain airbag modules
- 5. Front retractor pretensioner
- 6. Airbag warning light
- 7. SRS control module (SRSCM) / Rollover sensor
- 8. Front impact sensors
- 9. Side impact sensors (acceleration)
- 10. Side impact sensors (pressure)
- 11. Front passenger airbag ON/OFF switch
- 12. Rear retractor pretensioner

## Information

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

## Where are the airbags?

## Driver's and passenger's front airbags

Driver's front airbag



Passenger's front airbag



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

The airbag locations are embossed with the letters, "AIRBAG".

The purpose of the SRS is to provide the vehicle's driver and front passenger with additional supplemental protection that the seat belt system does not provide in case of a frontal impact of sufficient severity.

## WARNING

To reduce the risk of serious injury or death from inflating front airbags:

- Seat belts must be worn at all times to help keep occupants positioned properly.
- Move your seat as far back as possible from front airbags, while still maintaining control of the vehicle.
- Never lean against the door or center console.
- Hold the steering wheel at the 9 o'clock and 3 o'clock positions, to minimize the risk of injuries to your hands and arms.
- Do not allow the front passenger to place their feet or legs on the dashboard.
- Never place any objects (such as dashboard cover, mobile phone holder, cup holder, perfume or stickers) over or near the airbag modules on the steering wheel, instrument panel, windshield glass, and the front passenger's panel above the glove box. Such objects may cause harm if the vehicle is in a crash severe enough to cause the airbags to deploy.
- Do not attach any objects on the front windshield and inside mirror.

## Passenger's front airbag ON/OFF switch

The purpose of the switch is to disable the passenger's front airbag to help reduce the risk of injury or death from an inflating airbag to certain front passenger seat occupants due to age, size, or medical condition.

To deactivate the passenger's front airbag:



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



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

To reactivate the passenger's front airbag:



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

#### Information

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



## **MARNING**

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

## Side airbags

Driver's seat/Passenger's seat





Side airbags are located in each front seat.

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

For the vehicle equipped with a rollover sensor, the side and/or curtain airbags and pretensioners on both sides of the vehicle are designed to deploy if a rollover or possible rollover is detected.

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

## WARNING

To reduce the risk of serious injury or death from an inflating side airbag:

- · Seat belts must be worn at all times to help keep occupants positioned properly.
- Do not allow passengers to lean their heads or bodies onto doors, put their arms on the doors, stretch their arms out of the window, or place objects between the doors and seats.
- · Do not use any accessory seat covers. It may reduce or prevent the effectiveness of the system.
- Do not hang other objects except clothes. In an accident it may cause vehicle damage or personal injury especially when air bag is inflated.
- Do not place any objects over the airbag location or between the airbag and yourself. Also, do not attach any objects around the area the airbag inflates such as door, side door glass, and front and rear pillar.
- Do not place any objects between the door and the seat. They may become dangerous projectiles if the side airbag inflates.
- Do not install any accessories on the side or near the side airbags.
- Do not cause an impact to the doors when the Start/Stop button is in the ON or START position because the side airbags can inflate.
- If the seat or seat cover is damaged, we recommend that your vehicle be inspected by an authorized HYUNDAI dealer.

## Curtain airbags





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

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

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

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

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



#### WARNING

To reduce the risk of serious injury or death from an inflating curtain airbag:

- Seat belts must be worn at all times to help keep occupants positioned properly.
- Properly secure a Child Restraint System as far away from the door as possible.
- Do not place any objects over the air bag. Also, do not attach any objects around the area the air bag inflates such as door, side door glass, front and rear pillar, and roof side rail.
- · Do not hang other objects except clothes, especially hard or breakable objects near air bag locations. 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
- Do not open or repair the side curtain airbags yourself. If necessary, we recommend that the airbag be inspected by an authorized HYUNDAI dealer.

## How does the airbags system operate?

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

During a moderate to severe frontal collision, sensors detect the vehicle's rapid deceleration. If the rate of deceleration is high enough, the SRSCM inflates the front airbags with the force needed.

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

- · Airbags are activated (able to inflate if necessary) only when the Start/Stop button is in the ON or START position, and it may be activated within 3 minutes after the vehicle is turned off.
- Airbags inflate in the event of certain frontal or side collisions to help protect the occupants from serious physical injury.
- There is no single speed at which the airbags will inflate. Generally, airbags are designed to inflate based upon the severity of a collision and its direction. Airbag deployment also depends on a number of other factors including vehicle speed, angles

of impact and the density and stiffness of the vehicles or objects which your vehicle impacts during a collision. The determining factors are not limited to those mentioned above.

- The front airbags completely inflate and deflate in an instant. It is virtually impossible for you to see the airbags inflate during an accident. It is much more likely that you simply see the deflated airbags hanging out of their storage compartments after the collision.
- In addition to inflating in serious side collisions, vehicles equipped with a rollover sensor, side and/or curtain airbags inflate if the sensing system detects a rollover. When a rollover is detected, curtain airbags remain inflated longer to help provide protection from ejection, especially when used in conjunction with the seat belts.
- To help provide protection, the airbags must inflate rapidly. The speed of airbag inflation is a consequence of extremely short time in which the airbag inflates between the occupant and the vehicle structures before the occupant impacts those structures. This speed of inflation reduces the risk of serious or life-threatening injuries and is thus a necessary part of airbag design.
  - However, the rapid airbag inflation may also cause injuries that include facial abrasions. bruises, and broken bones because the inflation speed also causes the airbags to expand with great force.
- There are even circumstances under which contact with the airbag may cause fatal injuries, especially when the occupant is positioned excessively close to the airbag.



#### WARNING

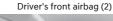
To reduce the risk of serious injury or death from an inflating airbag:

- 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 airbag and the seat occupant.
- Do not allow the front passenger to place their feet or legs on the dashboard.



Driver's front airbag (1)

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





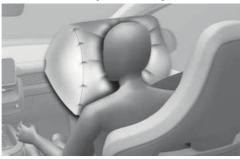
Upon deployment, tear seam in the pad cover separates from the expansion of the airbags.

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

Driver's front airbag (3)



Passenger's front airbag (4)



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

#### WARNING

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

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

#### What to expect after an airbag inflates

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



## **MARNING**

After an airbag inflates, take the following precautions:

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

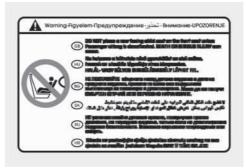
## Noise and smoke from inflating airbag

When the airbags inflate, they make a loud noise and may release powder inside the vehicle. After the airbag inflates, you may feel discomfort while breathing. This may be due to the impact of the airbag or the seat belt with your chest and it may also be due to breathing residual powder in the air and around your vehicle. The powder may aggravate asthma for some people. If you experience breathing problems after an airbag deployment, seek medical attention immediately.

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

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





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



## 🛕 WARNING \_

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

## **SRS** warning light



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

## WARNING

If your SRS malfunctions, the airbags may not inflate properly during a collision increasing the risk of serious injury or death.

Your SRS malfunctions in the following conditions:

- The light does not turn on for about 3-6 seconds when the Start/Stop button is in the ON position.
- The light stays on after illuminating for about 3-6 seconds.
- The light comes on while the vehicle is moving.
- The light blinks when the vehicle is running.

We recommend that an authorized HYUNDAI dealer inspect the SRS as soon as possible.

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

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

## Airbag collision sensors



#### MARNING

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

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



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

## Airbag inflation conditions

## Front airbags



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

Side and curtain airbags





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

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

Also, the side and curtain airbags inflate when a rollover is detected by a rollover sensor. If the vehicle chassis is impacted by bumps or objects on unimproved roads, the airbags may deploy. Drive carefully on unimproved roads or on surfaces not designed for vehicle traffic to prevent unintended airbag deployment.

## Airbag non-inflation conditions



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



Front airbags are not designed to inflate in rear collisions, because occupants are moved backward by the force of the impact.



Front airbags may not inflate in side impact collisions, because occupants move in the direction of the collision.

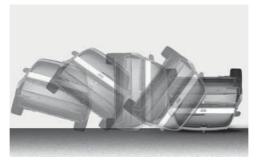
Side and curtain airbags may inflate depending on the severity of impact.



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



Just before impact, drivers often brake heavily. Such heavy braking lowers the front portion of the vehicle causing it to "nosedive". This is particularly important when the vehicle in front has a higher ground clearance. Airbags may not inflate if your vehicle is in a "nosedive" condition because the collision forces detected by the sensors may have been significantly reduced.



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

The side and curtain airbags may inflate in a rollover situation, when detected by the rollover sensor.



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

#### SRS care

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

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



#### WARNING

To reduce the risk of serious injury or death:

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

## 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 collision 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 collision.

Do not modify the front seats. Modification of the front seats may interfere with the operation of the Supplemental Restraint System sensing components or side airbags.

Do not place items under the front seats. Placing items under the front seats may interfere with the operation of the Supplemental Restraint System sensing components and wiring harnesses.

Do not cause impact to the doors. Impact to the doors when the Start/Stop button is in the ON or START position may cause the airbags to inflate.

## Adding equipment to or modifying your airbag equipped vehicle

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

## Airbag warning labels



Airbag warning labels are attached to alert the driver and passengers of potential risks of the airbag system. Be sure to read all of the information about the airbags that are installed on your vehicle in this Owners Manual.

## 4. Instrument Cluster

## Instrument cluster

Type A (N mode)





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

- 1. Speedometer
- 2. Power/Charge gauge
- 3. Odometer
- 4. Distance to empty
- 5. Battery SOC (State of Charge) gauge
- 6. Warning and indicator lights
- 7. Cluster display



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

- 1. Speedometer
- 2. Power/Charge gauge
- 3. Odometer
- 4. Distance to empty
- 5. Battery SOC (State of Charge) gauge
- 6. Warning and indicator lights
- 7. Cluster display

#### Instrument cluster control

## Instrument panel illumination

#### Infotainment system

You can adjust the brightness of the instrument panel illumination in the infotainment system. Select Settings > Cluster/Head-up display > Brightness.

#### Information

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

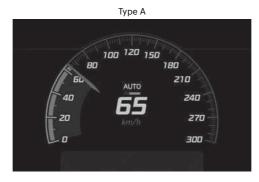


#### WARNING

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

## **Gauges and meters**

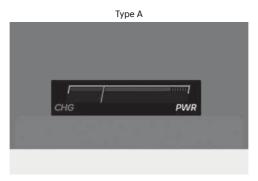
## Speedometer





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

## Power/charge gauge

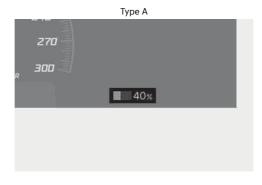


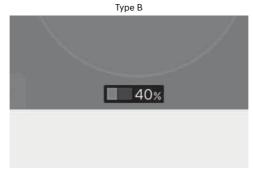


The Power/Charge Gauge shows the energy consumption rate of the vehicle and the charge/discharge status of the regenerative brakes.

- 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.
- **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.

## State of charge (SOC) gauge for high voltage battery





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

When the remaining battery is lower than 15 % on the SOC gauge, the High Voltage Battery Level warning light (E) turns ON to alert you of the battery level.

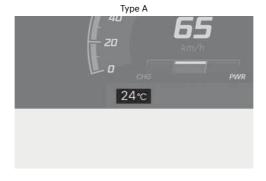
When the High Voltage Battery Level warning light () turns ON, the vehicle can drive an additional 30-40 km (18-25 mi.) depending on the driving speed, heater/air conditioner, weather, driving style, and other factors. Charging is required.

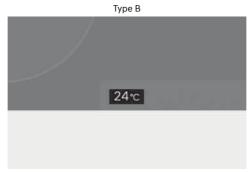
#### NOTICE

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

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

## Outside temperature gauge





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

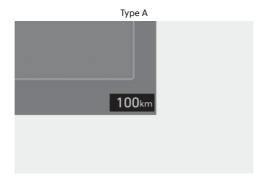
#### Select Settings > General > Unit > Temperature unit.

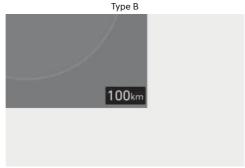
Both the temperature unit on the cluster display and climate control screen will change.

#### Information

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

#### Odometer





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

## Distance to empty





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

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

For more information, refer to the "Factors affecting the distance to empty" section in chapter 1.

#### Information

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

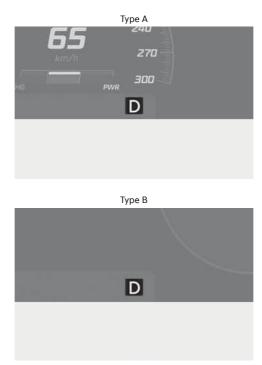
## **CUSTOM mode settings**



The main settings of CUSTOM mode is displayed at the top of the cluster. The CUSTOM mode can be set on the infotainment system.

For more details on the CUSTOM mode, refer to the "N Mode" section in chapter 6.

## **Reduction gear shift indicator**



The reduction gear shift indicator in the lower portion of the cluster display indicates the current gear or P (Park).

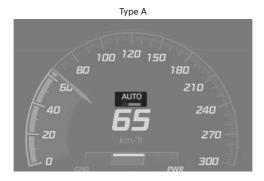
#### Gear shift indicator

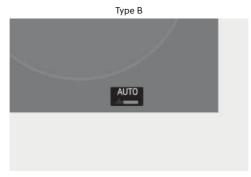


In the manual shift mode, this indicator informs which gear is desired while driving to save energy.

When the system is not working properly, the indicator is not displayed.

## Regenerative braking level indicator





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

For more information, refer to the "N Brake regen" and "Smart regeneration system"section in chapter 6.

## Warning and indicator lights

Information

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

## Ready indicator

# READY

#### This indicator illuminates:

When the vehicle is ready to be driven.

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

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

## Service warning light



This warning light illuminates:

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

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

## Power down indicator light



#### This indicator light illuminates:

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

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

#### 166 Instrument Cluster

The temperature of the motor is high.

#### NOTICE

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

#### Information

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

## Charging connector indicator light



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

## High voltage battery level warning light



This warning light illuminates: When the high voltage battery level is low. Charge the high voltage battery immediately.

## Seat belt warning light



This warning light informs the driver that the seat belt is not fastened. For more information, refer to the "Seat belts" section in chapter 3.

## Airbag warning light



This warning light illuminates:

- When the Start/Stop button is in the ON position. It illuminates for 3-6 seconds and then goes off.
- When there is a malfunction with the Safety Restraint System (SRS).
   If the Airbag warning light remains illuminated while driving, we recommend that your vehicle be inspected by an authorized HYUNDAI dealer.

## Regenerative brake warning light



#### This warning light illuminates:

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

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

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

## Parking brake and brake fluid warning light



This warning light illuminates:

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

If the brake fluid level in the reservoir is low:

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

#### **Dual-diagonal braking system**

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

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

Also, the vehicle does not stop in a short distance if only a portion of the braking system is working.



## WARNING

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

## Anti-lock Brake System (ABS) warning light



This warning light illuminates:

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

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

## Electronic Brake Force Distribution (EBD) System warning light



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

When the ABS and brake system does not work normally.

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



#### WARNING

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

Avoid high speed driving and abrupt braking.

We recommend that your vehicle be inspected by an authorized HYUNDAI dealer as soon as possible.

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

## Motor Driven Power Steering (MDPS) warning light



#### This warning light illuminates:

- When the Start/Stop button is in the ON position. It illuminates for about 3 seconds and then goes off.
- Whenever there is a malfunction with the Motor Driven Power Steering.
   If the MDPS warning light remains illuminated while driving, we recommend that your vehicle be inspected by an authorized HYUNDAI dealer.

## Master warning light



#### This warning light illuminates:

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

- Forward Collision-Avoidance Assist malfunction
- Forward Collision-Avoidance Assist radar blocked
- Blind-Spot Collision-Avoidance Assist malfunction (if equipped)
- Blind-Spot Collision-Avoidance Assist radar blocked (if equipped)
- Rear Cross-Traffic Collision-Avoidance Assist malfunction (if equipped)
- Rear Cross-Traffic Collision-Avoidance Assist radar blocked (if equipped)
- · Exterior light malfunction
- LED headlight malfunction (if equipped)
- High Beam Assist malfunction (if equipped)
- Smart Cruise Control malfunction (if equipped)
- Smart Cruise Control radar blocked (if equipped)
- Lane Following Assist malfunction (if equipped)
- Low washer fluid (if equipped)
- Tire Pressure Monitoring System (TPMS) malfunction

If the issue is resolved, the Master Warning Light turns off.

## Electronic Parking Brake (EPB) warning light

This warning light illuminates:

- When the Start/Stop button is in the ON position. It illuminates for about 3 seconds and then goes off.
- · Whenever there is a malfunction with EPB. If the EPB warning light remains illuminated while driving, we recommend that your vehicle be inspected by an authorized HYUNDAI dealer.

#### Information

The Electronic Parking Brake (EPB) warning light may illuminate when the Electronic Stability Control (ESC) indicator light comes on to indicate that ESC is not working properly. This does not indicate malfunction of EPB.

## Low tire pressure warning light



This warning light illuminates:

- When the Start/Stop button is in the ON position. It illuminates for about 3 seconds and then goes off.
- When one or more tires are significantly under-inflated. (The location of the underinflated tire appears on the cluster display.)

For more information, refer to the "Tire pressure monitoring system (TPMS)" section in chapter 8.

## Low washer fluid warning light



This warning light illuminates:

when the washer fluid level in the reservoir is nearly empty.

Have the washer fluid reservoir refilled.

## All Wheel Drive (AWD) warning light



This warning light illuminates:

Whenever there is a malfunction with the AWD system.

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

For more details, refer to "ALL Wheel Drive (AWD)" section in chapter 6.

## Forward Safety warning light





This warning light illuminates:

- When the Start/Stop button is in the ON position. It illuminates for about 3 seconds and then goes off.
- Yellow: When Forward Safety of Forward Collision-Avoidance Assist is deselected, disabled, or a malfunction is detected.

If the yellow warning light remains on after the sensor has been uncovered or unblocked when the Forward Safety is set, we recommend that your vehicle be inspected by an authorized HYUNDAI dealer.

This warning light blinks:

• Red: When Forward Safety or Forward Cross-Traffic Safety function is operating.

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

## Emergency steering warning light





This warning light illuminates:

- When the Start/Stop button to the ON position, the yellow warning light illuminates for about 3 seconds and then goes off
- Continuously Yellow: When Forward/Side Safety is deselected or Forward Collision-Avoidance Assist disable/malfunction

#### 172 Instrument Cluster

 Blinking Red: When Forward/Side Safety of Forward Collision-Avoidance Assist is operating

If the yellow warning light is still on even after removing foreign material from the front of the sensors after Forward Safety select in settings, we recommend that you have the vehicle inspected by an authorized HYUNDAI dealer as soon as possible.

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

## Inattentive Driving Warning light





#### This indicator light illuminates:

- When the Start/Stop button is in the ON position. It illuminates for about 3 seconds and then goes off.
- Yellow: When Driver Attention Warning is disabled or a malfunction is detected. If the yellow indicator light remains on after the front view camera has been uncovered or unblocked, we recommend that your vehicle be inspected by an authorized HYUNDAI dealer.

## This indicator light blinks:

• Yellow: When the Inattentive Driving Warning is operationg.

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

## Lane Following Assist indicator light

#### f equipped



#### This indicator light illuminates:

- When the Start/Stop button is in the ON position. It illuminates for about 3 seconds and then goes off.
- Green: When Lane Following Assist is operating.
- Gray: When Lane Following Assist operating conditions are not satisfied.

#### This indicator light blinks:

White: When the steering wheel assist is cancelled.

For more information, refer to the "Lane Following Assist (LFA)" section in chapter 7.

## Intelligent Speed Limit Assist indicator light

tif equipped



This indicator light illuminates:

- When the Start/Stop button is in the ON position. It illuminates for about 3 seconds and then goes off.
- Yellow: When Intelligent Speed Limit Assist is disabled, the front view camera is blocked, or a malfunction is detected.

If the yellow indicator light remains on after the front view camera has been uncovered or unblocked, we recommend that your vehicle be inspected by an authorized HYUNDAI dealer.

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

## Lane Safety indicator light

tif equipped



This indicator light illuminates:

- When the Start/Stop button is in the ON position. It illuminates for about 3 seconds and then goes off.
- Gray: When Lane Keeping Assist operating conditions are not satisfied.
- Green: When Lane Keeping Assist operating conditions are satisfied.
- Yellow: When Lane Safety is deselected, disabled, or a malfunction is detected.
   If the yellow warning light remains on after the sensor has been uncovered or unblocked when Lane Safety is set, we recommend that your vehicle be inspected by an authorized HYUNDAI dealer.

This indicator light blinks:

· Green: When Lane Keeping Assist is operating.

For more information, refer to the "Lane Keeping Assist (LKA)" section in chapter 7.

## LED headlight warning light



This warning light illuminates:

- · When the Start/Stop button is in the ON position. It illuminates for about 3 seconds and then goes off.
- Whenever there is a malfunction with a LED headlight. If the LED headlight warning light remains illuminated while driving, we recommend that your vehicle be inspected by an authorized HYUNDAI dealer.

This warning light blinks:

Whenever there is a malfunction with a LED headlight related part.

If this occurs, we recommend that your vehicle be inspected by an authorized HYUNDAI dealer as soon as possible.

#### NOTICE

Driving with the LED headlight warning light on or blinking may reduce LED headlight life.

## Icy road warning light





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

When the temperature on the outside temperature gauge is about below 4 °C (40 °F), the Icy road warning light and Outside Temperature Gauge blinks and then illuminates. Also, the warning chime sounds 1 time.

You can activate or deactivate Icy road warning function from the Settings menu in the infotainment system. Select:

Settings > Cluster/Head-up display > Cluster > Content selection > Icy Road Warning

#### Information

- The infotainment system may change after software updates. For more information, refer to the manual provided in the infotainment system and the quick reference guide.
- If the Icy road warning light appears while driving, you should drive more attentively and safely refraining from over-speeding, rapid acceleration, sudden braking or sharp turning, etc.

## Door open indicator light



This indicator light illuminates:

When any door or tailgate is left open.



Before driving the vehicle, confirm the door and tailgate are fully closed.



#### **CAUTION**

The 12 V battery may discharge if you leave the vehicle with the Door Open indicator light illuminated.

## Electronic Stability Control (ESC) indicator light



This indicator light illuminates:

- When the Start/Stop button is in the ON position. It illuminates for about 3 seconds and then goes off.
- Whenever there is a malfunction with ESC system.
   If this occurs, we recommend that your vehicle be inspected by an authorized HYUNDAI dealer as soon as possible.

This indicator light blinks:

While ESC is operating.

For more information, refer to the "Electronic Stability Control (ESC)" section in chapter 6.

## Electronic Stability Control (ESC) OFF indicator light



This indicator light illuminates:

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

For more information, refer to the "Electronic Stability Control (ESC)" section in chapter 6.

## ECS SPORT Indicator Light

# ESC SPORT

This indicator light illuminates:

· When ESC SPORT is activated.

For more information, refer to the "Electronic Stability Control (ESC)" section in chapter 6.

#### 176 Instrument Cluster

# Immobilizer indicator light



This indicator light illuminates for up to 30 seconds:

When the vehicle detects the smart key in the vehicle with the Start/Stop button in the ACC or ON position.

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

This indicator light blinks for a few seconds:

When the smart key is not in the vehicle, you cannot start the vehicle.

This indicator light illuminates for a few seconds and goes off:

If the smart key is in the vehicle and the Start/Stop button is ON, but the vehicle cannot detect the smart key.

If this occurs, we recommend that your vehicle be inspected by an authorized HYUNDAI dealer.

This indicator light blinks:

Whenever there is a malfunction with the immobilizer system.

If this occurs, we recommend that your vehicle be inspected by an authorized HYUNDAI dealer.

# Turn signal indicator light



This indicator light blinks:

When you operate the turn signal lever.

If any of the following occur, there may be a malfunction with the turn signal system.

- The turn signal indicator light illuminates but does not blink.
- · The turn signal indicator light blinks rapidly.
- The turn signal indicator light does not illuminate at all.

If any of these occur, we recommend that your vehicle be inspected by an authorized HYUNDAI dealer.

# Rear fog indicator light



This indicator light illuminates:

When the rear fog lights are on.

Low beam indicator light



This indicator light illuminates: When the headlights are on.

## High beam indicator light



This indicator light illuminates:

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

# Light ON indicator light



This indicator light illuminates:

When the position lights or headlights are on.

# High Beam Assist indicator light



This indicator light illuminates:

When the high beam is on with the light switch in the AUTO position.

- · White: When High Beam Assist is ready to operate.
- · Green: When High Beam Assist is operating.

If your vehicle detects oncoming or preceding vehicles, High Beam Assist switches the high beam to low beam automatically.

For more information, refer to the "High Beam Assist (HBA)" section in chapter 5.

# N Mode Indicator Light



This indicator light illuminates:

• When you select "N" mode as drive mode.

For more details, refer to "N Mode" in chapter 6.

# AUTO HOLD indicator light

This indicator light illuminates:

- White: When you activate Auto Hold by pressing the AUTO HOLD switch.
- · Green: When you stop the vehicle completely by depressing the brake pedal with Auto Hold activated.
- Yellow: Whenever a malfunction with the Auto Hold is detected. If the AUTO HOLD indicator light remains yellow while driving, we recommend that your vehicle be inspected by an authorized HYUNDAI dealer.

For more information, refer to the "Electronic Parking Brake (EPB)" section in chapter 6.

# DRIFT mode indicator light

# DRIFT

This indicator light illuminates:

· When the drive mode is in the N DRIFT Optimizer.

For more information, refer to the "N Drift Optimizer" section in chapter 6.

# N Launch Control indicator light



This indicator light illuminates:

When the vehicle is in the N Launch Control.

For more information, refer to the "N Launch Control" section in chapter 6.

# **Cluster display messages**

#### Shift to P

This message appears if the Start/Stop button is pressed to the OFF position without the gear in the P (Park) position.

If this occurs, the Start/Stop button goes to the ACC position.

## Vehicle is in N. Press START button, shift to P and turn vehicle Off

This message appears if you try to turn off the vehicle with the gear in N (Neutral).

To turn off the vehicle:

- 1 Press the Start/Stop button. The Start/Stop button moves to the ON position.
- 2 Shift the gear to P (Park).
- 3 Press the Start/Stop button again, then the vehicle turns off.

# Low key battery

When the Start/Stop button is pressed to the OFF position, a message may appear, indicating the internal battery of the smart key is low. Replace the smart key battery.

## Press brake pedal to start vehicle

This message appears if the Start/Stop button is pressed repeatedly without depressing the brake pedal.

Start the vehicle by depressing the brake pedal and then pressing the Start/Stop button.

# Key not in vehicle

This message appears if the smart key is not in the vehicle when you have left the vehicle with the Start/Stop button in the ON or Start position.

Always turn off the vehicle before leaving your vehicle.

# Press START button again

If you cannot start the vehicle after the Start/Stop button is pressed, attempt to start the vehicle by pressing the Start/Stop button again.

If the warning message appears each time you press the Start/Stop button, we recommend that the vehicle be inspected by an authorized HYUNDAI dealer.

# Press START button with key

This message appears if the smart key is not detected when you press the Start/Stop button after accessing with the smart key.

# Check smart key system

This message is displayed when there is a problem with the smart key system. We recommend that you have the vehicle inspected by an authorized HYUNDAI dealer.

# Check BRAKE SWITCH fuse

This message appears if the brake switch fuse is disconnected. Replace the fuse before starting the vehicle.

If that is not possible, start the vehicle by pressing the Start/Stop button for 10 seconds in the ACC position.

#### Shift to P to start vehicle

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

# Check regenerative brakes

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

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

# Check virtual engine sound system

This message is displayed when there is a problem with the Virtual Engine Sound System (VESS).

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

# Battery discharging due to external electrical devices

### tif equipped

This message appears if the vehicle 12 V battery voltage is low or if a current draw is detected that could drain the vehicle battery.

Do not connect any external electronic devices to the battery system or battery discharge may occur.

If this message appears on the cluster and there are no other external electronic devices connected to the vehicle, we recommend that your vehicle be inspected by an authorized HYUNDAI dealer.

# Door, Hood, Tailgate open indicator



This warning appears if any door or hood or tailgate is left open. The warning indicates which door is open on the cluster display.



CAUTION

Before driving the vehicle, confirm the door, hood, and tailgate are fully closed.

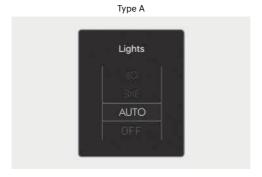
## Low tire pressure



This warning message appears if the tire pressure is low. The corresponding tire on the vehicle is illuminated.

For more information, refer to the "Tire pressure monitoring system (TPMS)" section in chapter 8.

# **Lights**

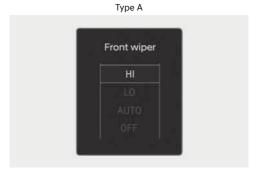


Type B



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

You can activate or deactivate Wiper/Lights display function in the infotainment system. Select Settings > Cluster/Head-up display> Cluster > Content selection > Wiper/Lights display.



Type B



This indicator displays which wiper speed is selected using the wiper control.

You can activate or deactivate Wiper/Lights display function in the infotainment system. Select Settings > Cluster/Head-up display> Cluster > Content selection > Wiper/Lights display.

#### Information

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

#### Check turn indicator

This message appears if the turn signal lights are not operating properly.

Replace the burned out bulb with a new one with the same wattage rating.

# Check headlight LED

This message appears if there is a problem with the LED headlight. We recommend that your vehicle be inspected by an authorized HYUNDAI dealer.

# Check Active Air Flap system

This warning message appears in the following situations:

• There is a malfunction with the actuator flap.

- There is a malfunction with the actuator air flap controller.
- The air flap does not open.

When all of the above conditions are fixed, the warning disappears.

# **Cluster display**

# **Cluster display control**



Switch	Function	
卽	MODE button for changing view modes	
<b>^</b> , <b>~</b>	MOVE switch for changing items	
ОК	SELECT/RESET button for setting or resetting the selected item	

# **View modes**

View modes	Explanation
Driving Assist	This mode displays Driver Assistance system such as Lane Keeping Assist, Smart Cruise Control, and Lane Following Assist etc.
Turn by Turn	This mode displays the navigation guidance.
Utility	This mode displays driving information such as the trip distance, electric energy economy, etc.

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

# Driving Assist view



#### LKA/SCC/LFA

Displays the state of Lane Keeping Assist, Smart Cruise Control, Lane Following Assist, and Highway Driving Assist. For more information, refer to each system information in Chapter 7.

# Turn By Turn (TBT) view



Turn-by-turn navigation and distance/time to destination appear when Turn by Turn mode is selected.

# Motor Temperature view



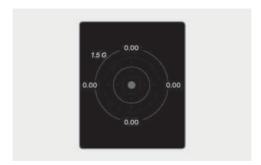
This mode displays information related to motor temperature.

# Lap timer



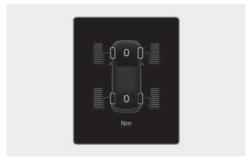
- 1. Best lap
- 2. Current lap
- · To start Press the OK button shortly on the steering wheel. The lap timer will start counting the current lap (2).
- To stop Press and hold the OK button for more than 1 second on the steering wheel while the lap timer is counting the current lap (2).

## G-Force



This mode displays the force delivered to the vehicle laterally while the vehicle is in motion.

# Energy flow / Driving force distribution



- The electric vehicle system informs the drivers its energy flow in various operating modes.
- The distribution status of the driving power of the front and rear wheels are displayed when Auto AWD mode is activated.

For more details, refer to "ALL Wheel Drive (AWD)" section in chapter 6.

## Utility view

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

#### **Current trip**



Trip distance, total driving time, average energy consumption, and instant energy consumption are displayed.

The information is combined for each ignition cycle. However, when the vehicle has been OFF for 3 minutes or longer the Drive Info screen is reset.

To reset manually, press the **OK** button on the steering wheel for more than 1 second when "Current trip" appears.

#### After charging



Trip distance, total driving time, average energy consumption, and instant energy consumption after the vehicle has been recharged are displayed. To reset manually, press the **OK** button on the steering wheel for more than 1 second when "After charging" appears.

Since last reset



Accumulated trip distance, total driving time, and average energy economy are displayed. The information is accumulated starting from the last reset.

To reset manually, press the **OK** button on the steering wheel for more than 1 second when "Since last reset" appears.

#### Tire pressure



The tire pressure of each tire appears.

For more information, refer to "Tire pressure monitoring system (TPMS)" section in chapter 8.

# Additional information display

**Driver** assistance



The current operation condition of Manual Speed Limit Assist, Smart Cruise Control, Lane Following Assist, etc. appears.

# **Vehicle settings (infotainment system)**

Vehicle Settings in the infotainment system provides user options for a the settings including door lock/unlock features, convenience features, driver assistance settings, etc.

#### Vehicle Setup menu

- · Driver assistance
- Drive mode
- · N Active Sound+
- Climate
- Seat
- · Lights
- Door
- · Digital key
- Convenience

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



#### WARNING

Do not adjust the Vehicle Settings while driving. You may be distracted from the driving task and could collide.

# Setting your vehicle



Select **Settings** > **Vehicle** to change the settings for features.

Information

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

# 5. Convenience Features

# **Accessing your vehicle**

## **Smart key**



Your HYUNDAI uses a smart key that is used to lock or unlock the driver's and passenger's doors and the rear tailgate, and start the vehicle.

- 1. Door lock
- 2. Door unlock
- 3. Remote start
- 4. Tailgate open/close
- 5. Forward and reverse (if equipped)

# Locking your vehicle (1)



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

- 1 Make sure all doors, the hood and the tailgate are closed.
- 2 Press the Door Lock button (1) on the Smart key. The hazard warning lights will blink with an alarm, and the handles will retract back.
- · In addition, touching the touch sensor on the door handle (the engraved part) while keeping the smart key will lock all doors and let the door handle to retract back.

#### Information

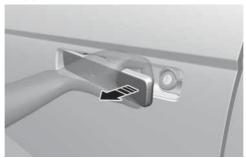
- The outside rearview mirror will fold if "On door unlock" is selected from the Settings menu in the infotainment system. Select Settings > Vehicle > Lights > Welcome mirror > On door unlock.
- The door handle touch sensor will only operate when the smart key is within 0.7-1 m (28-40 in.) from the outside door handle.
- Touching the door handle touch sensor does not unlock the doors. To unlock the doors, refer to the following page.
- · Note that you cannot lock your vehicle using the door handle touch sensor if any of the following occur:
  - The Smart Key is in the vehicle.
  - The Start/Stop button is in ACC or ON position.
  - Any of the doors are open except for the tailgate.



#### WARNING

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

# Unlocking your vehicle (2)



To unlock your vehicle using the door handle touch sensor or the Smart Key:

- 1 Make sure you have the smart key in your possession.
- 2 Touch the touch sensor on the door handle (engraved part) or press the Door Unlock button (2) on the smart key. All door handles will pop out and the doors will be unlocked and the hazard warning lights will blink twice.
- 3 After unlocking the doors, the doors will automatically re-lock after 30 seconds unless a door is opened.

#### Information

- The outside rearview mirror will unfold if "On door unlock" is selected from the Settings menu in the infotainment system screen. Select Settings > Vehicle > Lights > Welcome mirror > On door unlock.
- The door handle touch sensor will only operate when the smart key is within 0.7~1 m (28~40 in.) from the outside door handle.
- The doors may lock or unlock if the touch sensor of the outer door handle is recognized while washing your car or due to heavy rain.
- The doors may not lock or unlock in the following situations.
  - If the touch sensor is touched with gloves on
  - If the door is suddenly approached
- The infotainment system may change after software updates. For more information, refer to the manual provided in the infotainment system and the quick reference quide.

#### Information

During a car wash or rain, in order to minimize unintentional operation of the touch sensor, the touch sensor may become insensitive. This is not a malfunction.

# Smart key reminder

If the smart key is in the vehicle, and the door is locked with the central door lock/unlock button in the vehicle with a door open, the doors are not locked but unlocked again.

# Remotely starting vehicle (3)

To start the vehicle remotely:

- 1 Press the door lock button on the smart key within about 10 m (32 ft.) from the vehicle.
- 2 Press the Remote start button (3) on the smart key within 2 seconds from when you have pressed the door lock button. The vehicle starts.
- 3 To turn off the vehicle, press the Remote Start button (3) once.

#### Information

- The vehicle must be in P (Park) for the remote start function to start.
- The vehicle displays "Smart key must be present to keep the vehicle running" if you get on the vehicle without a registered smart key.
- The vehicle turns off if you do not get in the vehicle within 10 minutes after remotely starting the vehicle.
- The Remote start button (3) may not operate if the smart key is not within 10 m (32 ft.) from the vehicle.
- The vehicle does not remotely start if the hood or tailgate is open.

# Unlocking/Opening the tailgate (4)

To open the tailgate:

1 Have the smart key with you.

2 Press the tailgate open button on the vehicle or press and hold the Tailgate open/close button (4) on the smart key for more than 1 second. The hazard warning lights blinks two times and the tailgate unlocks or opens.

## To close the tailgate:

Press and hold the Tailgate open/close button (4) on the smart key to close the opened tailgate. If you release the button while the tailgate is being closed, it stops working and the chime sounds for about 5 seconds. (available with power tailgate)

#### Information

The Tailgate open/close button only operates when the smart key is within 1 m (40 in.) from the tailgate.

# Forwarding and reversing (5)



Press the forward or reverse button on the smart key to remotely move the vehicle forward or backward. This feature is available only if the remote smart parking assist system is equipped.

For more information, refer to the "Remote Smart Parking Assist 2 (RSPA 2)" section in chapter 7.



# CAUTION .

The smart key may not work in conditions as follows.

- When out of the operating range (around 10 m (32 ft.))
- · When the battery of the smart key is low
- When radio waves are blocked by other cars or objects
- · When the weather is very cold

# Loss of a smart key

A maximum of two smart keys can be registered to a single vehicle. If you happen to lose your smart key, it is recommended that you should immediately take the vehicle and remaining key 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 radio station or airport that may interfere with normal operation of the transmitter.
  - The smart key is near a mobile two way radio system or a mobile phone.
  - Another vehicle's smart key is being operated close to your vehicle.
  - The smart key is near any normal electronic devices or credit cards.
  - The vehicle battery is discharged.
  - Connecting an external device to the power outlet and placing the smart key near the external device.

If the smart key does not work correctly, open and close the door with the mechanical key. To start the vehicle, press the Start/Stop button directly with the smart key. If you

have a problem with the smart key, we recommend that you contact an authorized HYUNDAI dealer.

If the smart key is in close proximity to your mobile phone, the signal could be blocked by your mobile phone's normal operational signals. This is specifically relevant when the phone is active such as making and receiving calls, text messaging, and/or sending/receiving emails. When possible, avoid keeping the smart key and your smartphone in the same location such as a pants or jacket pocket to avoid interference between the two devices.

· If your windows are tinted, especially with metallic window tint, it may cause frequency interference, reducing the smart key operating range.

#### NOTICE

- Keep the smart key away from electromagnetic materials that blocks electromagnetic waves to the key surface.
- Always have the smart key with you when leaving the vehicle. If the smart key is left near the vehicle, the vehicle battery may be discharged.

# Replacing the battery

If the smart key is not working properly, try replacing the battery with a new one.

Battery type: CR2450 To replace the battery:

1 Insert a slim tool into the slot (1) and gently open the rear cover.



2 Remove the old battery and insert a new battery. Make sure the battery position is correct. An improperly positioned battery may discharge the battery, causing smart key failure.



3 Reinstall the rear cover of the smart key.

If you suspect your smart key might have sustained some damage or you feel your smart key is not working correctly, we recommended that you contact an authorized HYUNDAI dealer.



## ▲ WARNING \_\_

This product contains a button battery.

If swallowed, a lithium button battery can cause severe or fatal injuries within 2 hours. Keep batteries out of reach of children.

If you think batteries may have been swallowed or placed inside any part of the body, seek immediate medical attention.

# Information



An inappropriately disposed battery may be harmful to the environment and human health. Always dispose of a used battery according to your local law(s) and regulations.

#### Information

For more information, refer to "IMPORTER & DISTRIBUTOR INFORMATION FOR EU BATTERY REGULATION (EU 2023/1542) IMPORTER & DISTRIBUTOR INFORMATION FOR EU BATTERY REGULATION (EU 2023/1542)" section in the owner's manual.

# **Immobilizer system**

The immobilizer system helps protect your vehicle from theft. If an improperly coded key (or other device) is used, the vehicle is disabled.

When the Start/Stop button is 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.

Press the Start/Stop button to the OFF position, then to the ON position again.

The system may not recognize your key's coding if another immobilizer key or other metal object (e.g. key chain) is near the key. The vehicle may not start because the metal may interrupt the transponder signal from transmitting normally.

If the system repeatedly does not recognize the coding of the key, we recommend that you contact an authorized HYUNDAI dealer.

Do not attempt to modify this system or add other devices to it. Electrical problems may occur making your vehicle inoperable.



## MARNING

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

Avoid exposing the key to moisture, static electricity, and rough handling. The Immobilizer system may malfunction.

# **Hyundai Digital Key**

# tif equipped

Hyundai digital key provides convenience to the driver, which the driver can use to lock or unlock the driver and passenger doors or the tailgate and turn on the vehicle.

# Digital key (smartphone)

#### Information

- Hyundai digital keys are only available on smartphone that support digital key functions, and digital key functions of smartphones are provide by smartphone manufacturers.
- Available smartphone brands and models can be found on smartphone manufactures' website or HYUNDAI website.
- Certain functions may not operate depending on whether the service is provided in the vehicle.
- Depending on the availability of service on the vehicle, some functions may not operated.

# Setting your smartphone

To use the digital key (smartphone), download the Bluelink App and sign up Hyundai account and service.

For more information about Bluelink, refer to the infotainment system guide.

# Registering your digital key (smartphone)





[A] Vehicle authentication pad (wireless charging pad)

1 Turn on the vehicle with a smart key and have your smart keys with you in the vehicle.

Information

Both smart keys must be in the vehicle to register the digital key.

- 2 Put the gear in P (Park), from the infotainment system Settings menu, select Settings > Vehicle > Digital key > Smartphone key > My Smartphone Key.
- 3 After selecting Digital Key > Set Up Digital Key from the Bluelink App in the smartphone, register the digital key according to the guidance in the smartphone screen.
  - Ultra Wide Band unsupported smartphone
    - Place your smartphone on the vehicle authentication pad (wireless charging pad) with the screen facing up.
    - The NFC Antenna position on Samsung device can be found in the following path: Settings > Connections > NFC and contactless payments.
    - The NFC Antenna position on Google Pixel phone can be found in the following path: Settings > Connected devices > Connection preference > NFC.
    - Ensure that the NFC Antenna position on the smartphone is in contact with the vehicle authentication pad (wireless charging pad).
    - The NFC Antenna position on Apple iPhone is located at the top of the rear [B] and Apple WATCH is located at the center of the screen [C].



- The location of the NFC Antenna on the smartphone may vary by phone model, so please contact the smartphone manufacturer for details.
- NFC communication may not work for some smartphones depending on the internal structure of the smartphone. Move the smartphone to the left or right of the vehicel authentication pad (wireless charging pad) to operate.
- Ultra Wide Band supported smartphone
  - The digital key can be registered if the smartphone is inside the vehicle even without placing it on the vehicle authentication pad (wireless charging pad).
- 4 Press **Save** button in the infotainment system to start registration. When the digital key (smartphone) is saved, a message appears on the infotainment system.

#### Information

- If you want to register a different digital key (smartphone), refer to "Deleting your digital key (smartphone)" and delete the digital key (smartphone) before re-registering.
- During the digital key saving process, the process may cancel when:
  - The smartphone is removed from the vehicle authentication pad (wireless charging pad)
  - The infotainment system is changed
  - The vehicle is turned off
  - The gear is shifted
- The registering process does not start if both smart keys are not in the vehicle.
- Some smartphones may not start the registering process depending on the internal structure. Move the smartphone to the left or right on the vehicle authentication pad (wireless charger pad) and try registering the smartphone.
- Ultra Wide Band (UWB) is a radio technology that can use a very low energy level for short-range, high-bandwidth communications over a large portion of the radio spectrum.

# Using the digital key (smartphone)

#### Digital key touch control

The driver can lock or unlock the door by placing the smartphone on the outside door handle, and the vehicle can be started by placing the smartphone on the vehicle authentication pad (wireless charging pad).

#### Information

The location of the NFC Antenna on the smartphone may vary by phone model, so please contact the smartphone manufacturer for details.

#### Digital key close proximity control

- If you have the smartphone in possession, the doors can be locked or unlocked without touching the smartphone to the door handle, but by touching the door lock/unlock sensor (engraved part) on the door handle. Also, the vehicle can be started by pressing the Start/Stop button without placing the smartphone on the vehicle authentication pad (wireless charging pad).
- When the smartphone and vehicle is connected by Bluetooth, the Door Lock/Unlock, Remote Start, Panic and Tailgate open functions are available using the App provided by the smartphone manufacturer.

#### Information

- The function is only available for Ultra Wide Band supported smartphone digital keys. To use the function, the smartphone's Bluetooth must be activated.
- The necessary distance between the smartphone and vehicle for Bluetooth connection may vary depending on the surroundings of the vehicle and smartphone.
- The Remote Start, Panic or Tailgate open function may not be available depending on the country or vehicle type (hybrid, plug-in hybrid or electric vehicle).

#### Locking/Unlocking the doors

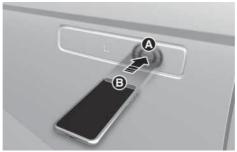
· Ultra Wide Band unsupported smartphone

Samsung & Google Pixel smartphones



- [A] Door handle authentication pad
- [B] NFC Antenna

Apple iPhone



- [A] Door handle authentication pad
- [B] NFC Antenna
- If the driver places the digital key (smartphone) NFC antenna to the driver's or passenger's door handle authentication pad [A] for more than 2 seconds, the door locks or unlocks.
- · Ultra Wide Band supported smartphone
  - If you touch the door lock/unlock sensor (engraved part) on the door handle with the smart phone in possession, the door locks or unlocks.

After unlocking the doors, the doors are automatically re-locked after 30 seconds unless a door is opened.

If the smartphone digital key does not operate, try again after moving the smartphone away from the door handle authentication pad (more than 4 in. (0.1 m)).

#### Information

- You cannot lock your vehicle using the digital key (smartphone) if any of the following occurs:
  - The smart key is in the vehicle.
  - The Start/Stop button is in the ACC or ON position.
  - Any of the doors, hood, or tailgate are open.
- The door may not unlock automatically if you stay near the vehicle for several minutes with the Ultra Wide Band supported smartphone in possession.
- If the smartphone is kept in the back pocket or bag, it may cause poor Bluetooth connection, or the door lock/unlock or vehicle start-up operation my be delayed.

#### Starting the vehicle

- · Ultra Wide Band unsupported smartphone
  - After placing your registered digital key (smartphone) on the vehicle authentication pad (wireless charging pad), depress the brake pedal and press the Start/Stop button.
  - After starting the vehicle, the digital key (smartphone) may be removed from the vehicle authentication pad (wireless charging pad).
  - NFC communication may not work for some smartphones depending on the internal structure of the smartphone. Move the smartphone to the left or right of the vehicel authentication pad (wireless charging pad) to operate.
- Ultra Wide Band supported smartphone
  - With the smartphone inside the vehicle, depress the brake pedal and press the Start/ Stop button.
  - To start the vehicle remotely, use the App provided by the smartphone manufacturer to lock the vehicle with the door lock button, and press the remote start button within 4 seconds.

The vehicle starts and the hazard warning lights blink.

- Press the remote start button again to turn off the vehicle.

For more details on the basic way to start the vehicle, refer to the "Start/Stop button" section in chapter 6.

#### Information

If a shared digital key (smartphone) is used for the first time, the activating time may take longer.

- Place the shared digital key (smartphone) on the door handle authentication pad until the vehicle door lock/unlock activates.
- If a shared digital key (smartphone) is first used on the vehicle authentication pad (wireless charger pad), the initial start of the vehicle may fail.
- If the door lock/unlock is activated once with the shared digital key (smartphone) or the
  vehicle is started with the digital key (smartphone) on the vehicle authentication pad,
  the digital key (smartphone) is registered in the vehicle.



## 👠 WARNING

The vehicle can be started when the registered smartphone is placed on the vehicle authentication pad (wireless charging pad). Therefore, do not leave unsupervised children or people who are not aware of the system since it can result in serious injury or death. In addition, always have the registered smartphone with you to prevent vehicle theft when leaving the vehicle.

#### Operating the tailgate

- Ultra Wide Band supported smartphone
  - If the vehicle is locked, press the tailgate open button with the smartphone in possession to open the tailgate.
  - If you are in the detecting area behind the tailgate for more than 3 seconds with the smartphone in possession when **Smart tailgate** is set, the tailgate opens automatically.



#### WARNING

The vehicle can be started when the registered smartphone is placed on the vehicle authentication pad (wireless charging pad). Therefore, do not leave unsupervised children or people who are not aware of the system since it can result in serious injury or death. In addition, always have the registered smartphone with you to prevent vehicle theft when leaving the vehicle.

#### Information

- The Ultra Wide Band supported smartphone digital key can be used only when the smartphone and vehicle are connected with Bluetooth.
  - The necessary distance between the smartphone and vehicle for Bluetooth connection may vary depending on the surroundings.
  - Window tinting substances may cause poor Bluetooth connection.
  - If the smartphone is kept in the back pocket or bag, it may cause poor Bluetooth connection, or the door lock/unlock or vehicle start-up operation may be delayed.
- The Ultra Wide Band supported smartphone digital key can be used only for a certain
  amount of time to optimize the performance of the smartphone and vehicle battery.
   If you stay near the vehicle for several minutes with the Ultra Wide Band supported
  smartphone, the Auto Unlock feature may not operate.
- Check the smartphone's setting menu or the App provided by the smartphone manufacturer for the connection of the vehicle and smartphone.
- The Ultra Wide Band supported smartphone digital key can also use the NFC function.

# Deleting your digital key (smartphone)

Turn on the vehicle with a smart key. Have your smart key with you in the vehicle.

#### Deleting all registered digital key (smartphone)



To delete all the registered digital key (smartphone), from the Settings menu select **Settings > Vehicle > Digital key > Smartphone key > Delete all** in the infotainment system.

• The "Delete all" button is disabled if there is no registered digital key (smartphone).

Deleting my registered digital key (smartphone)



To delete only my registered digital key (smartphone), from the Settings menu select **Settings > Vehicle > Digital key > Smartphone key > My Smartphone Key > Delete** in the infotainment system.

- If a shared digital key (smartphone) is registered, it cannot be deleted.
- A new smartphone can be registered after deleting the existing digital key (smartphone) from "My Smartphone Key" menu.

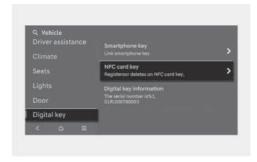
#### Information

- If the registered digital key (smartphone) is deleted, the digital key saved in the smartphone is also deleted.
- If the digital key is deleted from the smartphone, the digital key (smartphone) registered in the vehicle is also deleted.
- The shared digital key registered in the vehicle cannot be deleted individually.
- Even though the Bluelink App is deleted from the smartphone, the digital key saved in the smartphone is not deleted.
- Management of the digital key saved in the smartphone is available from the Digital Key App provided by the smartphone manufacturer.

# Digital key (Card key)

# How to register Digital key (Card Key)

To use the card key as a digital key, follow the following procedure.





#### [A] Vehicle authentication pad (Wireless charging pad)

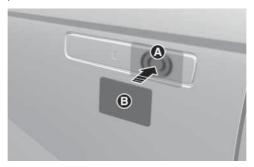
- 1 Have both of your smart keys with you in the vehicle.
- 2 Select Settings > Vehicle > Digital key > NFC card key from the Setup menu, and check whether "Use" is selected in the infotainment system.
- 3 Place your card key on the vehicle authentication pad (wireless charging pad) while the vehicle is on.
- 4 Register your card key by selecting Settings > Vehicle > Digital key > NFC card key > Save from the Settings menu in the infotainment system.

#### Information

- Only one digital key (card key) can be registered to the vehicle. If it must be replaced, delete the existing card key before registering the new card key.
- To register a digital key (card key), both of your smart keys must be in the vehicle.
- Once a digital key (card key) is registered, it cannot be registered in another vehicle. It is possible to re-register it to the original vehicle.

# Using the digital key (card key)

The driver can lock or unlock the door by placing the card key on the outside door handle, and the vehicle can be started by placing the card key on the vehicle authentication pad (wireless charging pad).



- [A] Door handle authentication pad
- [B] Card key NFC Antenna

#### Locking/Unlocking the doors

If the driver places the digital key (card key) to the driver's or passenger's door handle authentication pad [A] for more than 2 seconds, the door locks or unlocks.

After unlocking the doors, the doors are automatically re-locked after 30 seconds unless a door is opened.

#### Information

You cannot lock your vehicle using the digital key (card key) if any of the following occurs:

- · The smart key is in the vehicle.
- The Start/Stop button is in the ACC or ON position.
- · Any of the doors, hood, or tailgate are open.

## Starting the vehicle

After placing your registered digital key (card key) on the vehicle authentication pad (wireless charging pad), depress the brake pedal and press the Start/Stop button.

For more information on the basic way to start the vehicle, refer to the "Start/Stop button" section in chapter 6.



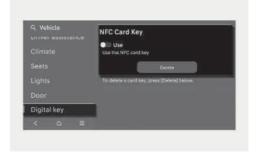
#### WARNING

The vehicle can be started when the registered card key is placed on the vehicle authentication pad (wireless charging pad). Therefore, do not leave unsupervised children or people who are not aware of the system since it can result in serious injury or death. In addition, always have the registered card key with you to prevent vehicle theft when leaving the vehicle.

#### NOTICE

- The digital key (card key) may not work under the following conditions:
  - The digital key (card key) is not placed on the door handle authentication pad or vehicle authentication pad (wireless charging pad) correctly.
  - The digital key (card key) is near NFC-enabled cards such as credit cards or smartphones.
    - If the digital key (card key) does not work, try again after moving the digital key (card key) away from the door handle authentication pad (more than 4 in. (0.1 m)).
- The digital key (card key) can be damaged by impacts. If the digital key (card key) is damaged, replace the digital key (card key) with a new one and register it again.
- Long-time exposure to high temperature may cause the digital key (card key) to malfunction. Be careful not to expose the digital key (card key) to direct sunlight or high temperature.
- Leaving the digital key (card key) on the in-vehicle authentication pad (wireless charging pad) while driving may cause the digital key (card key) to malfunction. Remove the digital key (card key) from the in-vehicle authentication pad (wireless charging pad) after starting the vehicle.
- Keep the digital key (card key) away from the smartphone when charging the smartphone. If the digital key (card key) is placed between the smartphone and the in-vehicle authentication pad (wireless charging pad) while the smartphone is being charged, the digital key (card key) may malfunction. For example, when charging smartphone while the digital key (card key) is attached to the back of the smartphone case.

# Deleting your digital key (card key)



- 1 Turn on the vehicle with a smart key. Have your smart key with you in the vehicle.
- 2 From the infotainment system settings menu, select Settings > Vehicle > Digital key > NFC card key > Delete.
  - The "Delete" button is disabled if there is no digital key (card key) registered.

# Personalized profile and vehicle settings

You can set the registered digital key (smartphone) profiles for Driver 1 and Driver 2. When you use the digital key (smartphone), the vehicle can be set to the user-defined personalized profile (includes items such as vehicle settings and audio preferences).

# Linkina/Unlinkina profile

#### How to link user profile

- 1 Select Settings > User profile > Profile settings > Link digital key (Smartphone) from the Settings menu in the infotainment system.
- 2 Select "Link" to connect the registered smartphone's digital key and the user's profile.
- 3 Follow the instructions according to the message on the infotainment system.

#### How to unlink user profile

Select Settings > User profile > Profile settings, and then deselect "Link digital key (Smartphone)" from Settings menu in the infotainment system.

• Unlinking is possible only when user profile is linked.

#### Information

- User profile cannot be linked to both Driver 1 and Driver 2 that are connected to single smartphone. Personalization operates with the recently linked user profile, and the previously linked user profile will be automatically canceled.
- User profile link works only when the digital key is registered to the vehicle.
- Digital key (card key) cannot be linked with a user profile.
- If the user profile linked digital key in the smartphone is deleted, the digital key should be re-registered and personalized by linking the user profile again.

# Vehicle personalization operation

- The personalization function linked with digital key works when the profile linked smartphone is placed on the outside door handle authentication pad to lock or unlock the doors.
- The profile set by the digital key can be changed manually from the infotainment system.
- · The personalization function using the digital key can be operated after linking the digital key in the infotainment system profile menu.
- The personalization function works only when the vehicle is OFF or when the vehicle is started remotely. If the vehicle is not started remotely, the personalization function does not work with the digital key.

User profile operation according to door lock/unlock system is as follows:

Item	Personalization Operation
Initial value	Guest
Profile linked smartphone key	Linked profile
Profile unlinked smartphone key	Recently activated profile
NFC card key	
Smart key	

## Used vehicle/Digital key maintenance

# Purchasing used vehicle

If any of the digital key devices (smartphone key, card key) are registered in the vehicle, the "Digital key registered" message appears once on the infotainment system or instrument cluster when the Start/Stop button is in the ON position after unlocking the doors. When purchasing a used vehicle, make sure to check the message and delete the smartphone key and card key registered by the previous user.

If the card key comes with the vehicle, check whether it operates properly.

# Digital Key maintenance

If you need to have your Digital Key System repaired or replaced, the registered smartphone key or card key can be deleted.

# Limitations of the system

- HYUNDAI Digital Key may not operate if any of the following occurs:
  - Smartphone battery or the vehicle battery is discharged.
  - NFC or Bluetooth is turned off on the smartphone settings.
  - A credit card is near your smartphone, or a metal or thick smartphone case is used.
  - The card key is in a wallet or card holder, or overlapped with other cards.
  - There is electronic interference by other vehicles, objects, etc.
  - If you use a smartphone cover that uses wireless communication or is made of metal, remove the smartphone cover.
- The vehicle may not be controlled by the smartphone if any of the following occurs:
  - Other smartphone functions (calls, urgent calls, audio or NFC payment), apps, or wireless earphones are operating.
  - The Bluelink App function such as basic setting or app launching is limited by the prior policy according to the manufacturer.

## **Door locks**

# Operating door unlocks from outside the vehicle

# Using the smart key

Approach unlock system

The outside door handle will slide out and the doors will unlock when the driver approaches the vehicle possessing the smart key.

The driver can activate/deactivate the "Approach unlock" system on the infotainment screen.

To activate Approach unlock system, select Settings > Vehicle > Door > Approach unlock in the infotainment system. The outside door handle will slide out and the door will unlock when the driver approaches the vehicle possessing the smart key. If Approaching unlock system is deactivated, the door handle will not slide out even when the driver approaches to the vehicle with the smart key. To unlock doors when Approach unlock system is deactivated, touch the lock/unlock sensor (engraved part) on the handle.





- · When the "Approach unlock" is activated:
  - If you approach (within 1 m) the driver or front passenger's door handle possessing the smart key, the outside door handles slide out and the doors are unlocked. In this case, Hazard Warning Flasher blinks twice and chime also sounds twice.
  - After first approach, the vehicle tries detecting the smart key every 5 seconds and if the key is not detected, the doors will lock automatically and the handles will slide in.





- When the "Approach unlock" is deactivated: The handle does not slide out even when you approach with the smart key in possession. The doors are unlocked if you press the outside handle as the handles slide out.
- · The doors will lock automatically and the handles will slide in after 30 seconds unless a door is opened.

# Information \_

In emergency situations, such as battery is dead, the outside electric door handle can still be operated in a way that the outside manual door handle operate.

# Operating door locks from outside the vehicle

# Using the smart key





When all doors are closed, touch the touch sensor on the front outside door handle (the engraved part) while carrying the Smart Key with you, outside door handle will return and doors will be locked.

The hazard warning lights will blink and chime also sounds once.

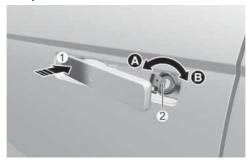
#### NOTICE

- If the door is locked/unlocked multiple times in rapid succession with the smart key, door lock button or door lock switch, the system may stop operating temporarily in order to protect the circuit. Also, the "Approach unlock" system may not operate. Try operation after a sufficient time in case the system does not operate due to multiple operations.
- "Approach unlock" system is not operated continuously. Retry after a certain period of time when all the doors are closed.

## Information

- In cold and wet climates, door lock and door mechanisms may not work properly due to freezing conditions.
- If the door is locked/unlocked multiple times in rapid succession with either the vehicle key or door lock switch, the system may stop operating temporarily in order to protect the circuit and prevent damage to system components.
- · When washing the vehicle
  - Self car wash
    - Keep the door locked with the outside door handle closed.
    - To keep the door unlocked, push back the outside door handle by hand. This function prevents the door handle from being damaged, and the door handle pops out again when the unlock button is pressed.
  - Auto car wash
    - Keep the door locked with the outside door handle closed.
    - If the Smart Key is not in the vehicle, turn off the vehicle and stay the Smart Key away at least 2 m (78 in.) from the vehicle to prevent the outside door handle operates.

# Using the mechanical key



[A] Lock

[B] Unlock

Press the front part (1) of the door handle to pull out the rear part of the door handle. While keep pressing the front part of the door handle, insert (2) the mechanical key to the lock.

To lock the door, turn the key toward the front [A] of the vehicle. To unlock, turn the key toward the rear [B] of the vehicle.

## NOTICE

Do not apply excessive force on the door and door handle. It may damage the door and door handle.

## Information

When the keyhole freezes and does not open, lightly tap or indirectly warm (i.e. hand temperature) the keyhole.

# Operating door unlocks from inside the vehicle

### With the door inside handle



#### Front door

If the inner door handle is pulled when the door is locked, the door is unlocked and opened.

#### Rear door

If the inner door handle is pulled once when the door is locked, the door is unlocked. If the inner door handle is pulled once more, the door is opened.

## With the central door lock/unlock switch

#### Driver's door



When pressing the  $\bigcirc$  portion (1) on the switch, all vehicle doors are locked.

- If any door is opened, the doors are not locked even though the lock switch (1) of the door is pressed.
- If the smart key is in the vehicle and any door is opened, the doors are not locked even though the lock switch (1) of the door is pressed.

When pressing the figorition (2) on the switch, all vehicle doors are unlocked.

# In case of an emergency



In case of emergency such as when the battery is discharged, the only way to lock the door(s) is with the mechanical key from the outside key hole.

Doors without an outside key hole can be locked as follows:

- 1 Open the door.
- 2 Insert a small blade tool (e.g. screwdriver or similar) into the emergency door lock hole and turn it clockwise for left side door, or turn it counterclockwise for right side door.

3 Close the door securely.

### Information

If the electrical power door lock switch does not operate (e.g. discharged vehicle battery) and the tailgate is closed, you cannot open the tailgate until power is restored.



## WARNING

- Always close and lock the doors while the vehicle is moving. If the doors are unlocked, the risk of being thrown from the vehicle in a collision increases.
- Do not pull the inner door handle of the driver's or passenger's door while the vehicle is moving.



## ▲ WARNING

Do not leave the elderly, children, or animals unattended in your vehicle. An enclosed vehicle can become extremely hot and the elderly, unattended children or animals who cannot escape the vehicle may be seriously injured or killed.



## WARNING \_

Always park your vehicle properly. Depress the brake pedal, change the gear to P (Park), apply the parking brake, press the Start/Stop button to the OFF position, close all windows, lock all doors, and always take the keys with you.



## 🔼 WARNING \_

Be careful when opening doors and watch for vehicles, motorcycles, bicycles, or pedestrians approaching the vehicle to prevent serious injury or death.

## Information

To exit the vehicle if the power door lock does not function:

- · Operate the door unlock feature repeatedly (both electronic and manual) while simultaneously pulling on the door handle.
- Operate the other door locks and handles.
- Lower the driver's front window and use the mechanical key to unlock the door from outside.

### Auto Door lock/unlock features

Your vehicle is equipped with features that automatically locks or unlocks your vehicle based on settings you select in the infotainment system.

# Automatically Lock Enable on speed

When this feature is set in the infotainment system, all the doors are locked automatically when the vehicle exceeds 15 km/h (9 mph).

# Automatically Lock Enable on speed or shift

When this feature is set in the infotainment system, all the doors are locked automatically when the vehicle exceeds 15 km/h (9 mph) or when the vehicle is shifted out of P (Park) while the vehicle is running.

## Automatically Unlock Enable on Shift to P

When this feature is set in the infotainment system, all the doors are unlocked automatically when the vehicle is shifted back to P (Park) while the vehicle is running.

## Automatically Unlock Upon Vehicle Off

When this feature is set in the infotainment system, all the doors are unlocked automatically when the vehicle is turned off.

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

# Additional unlock safety feature airbag deployment

As an additional safety feature, all doors are automatically unlocked when an impact causes the airbags to deploy.

### **Deadlocks**

## tif equipped

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

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

# Child-protector rear door locks

### if equipped



The child safety lock is provided to help prevent children seated in the rear from accidentally opening the rear doors.

The rear door safety locks must 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 does not open if the inner door handle is pulled.

To lock the child safety lock, insert a small flat blade tool (e.g. screwdriver or similar) 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.



## MARNING .

Never allow children to open the rear doors while the vehicle is moving. They may fall out of the vehicle. Make sure to use the rear door safety locks whenever children are in the vehicle.

# **Electronic child safety lock**





When the electronic child safety lock button is pressed and the indicator light on the button illuminates, the rear doors cannot be opened from inside the vehicle.

- · The rear door window cannot be opened or closed while the electronic child safety lock button is in the LOCK position (indicator light ON).
  - For more details, refer to "Windows" section in this chapter.
- Electronic child safety lock does not automatically turn on unless the driver presses the electronic child safety lock button.
- If 3 minutes passes after the Start/Stop button is pressed to the OFF or ACC, the indicator on the button turns off, and the driver cannot turn off electronic child safety lock by pressing the button. To turn off the function, press the Start/Stop button to the ON position, and then press the electronic child safety lock button.
- · If the power is supplied again after removing the battery or battery is discharged while the electronic child safety lock button is in the LOCK position, press the button once more to match the state of the indicator on the electronic child safety lock button and actual status of the electronic child safety lock function.
- If the airbag is activated while the electronic child safety lock button is in the LOCK position (indicator light ON), the rear doors will unlock automatically.
- · Vehicles equipped with the electronic child safety lock feature is not provided with a manual child safety lock.



## MARNING .

If children accidentally opens the rear door while the vehicle is in motion, they could fall out of the vehicle. Electronic child safety lock should always be used whenever children are in the vehicle.

## Child safety lock failure



When electronic child safety lock does not work even though the button is pressed, the message will be displayed and an alarm will sound. If this occurs, we recommend that the vehicle be inspected by an authorized HYUNDAI dealer.

## Safe Exit Assist (if equipped with electronic child safety lock)

Safe Exit Assist helps prevent the rear occupant from opening the rear door. When an approaching vehicle from the rear area is detected after the vehicle stops, the rear doors will not unlock even when the driver tries to unlock the rear doors using the electronic child safety lock button.

For more details, refer to "Safe Exit Assist (SEA)" section in chapter 7.

# Theft-alarm system

This system helps to protect your vehicle and valuables. The horn sounds and the hazard warning lights blinks continuously if any of the following occur:

- A door is opened without using the smart key.
- The tailgate is opened without using the smart key.
- The hood is opened.

The alarm continues for 30 seconds, then the system resets. To turn off the alarm, unlock the doors with the smart key.

The Theft Alarm System automatically sets 30 seconds after you lock the doors and the tailgate. For the system to activate, you must lock the doors and the tailgate from outside the vehicle by doing one of the following:

- · Using the smart key.
- Pressing the button on the outside door handle with the smart key in your possession. (available with button type)
- Touching the touch sensor on the outside door handle with the smart key in your possession. (available with touch sensor type)

The hazard warning lights blink and the chime sounds once to indicate the system is armed.

Once the security system is set, opening any door, tailgate, or hood without using the smart key causes the alarm to activate.

The Theft Alarm System is not set if the hood, tailgate, or door is not fully closed. If the system is not set, check the hood, tailgate, or doors are fully closed.

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

### Information

- Do not lock the doors until all passengers have left the vehicle. If a door is opened after the system is armed, the alarm is activated.
- If the vehicle is not disarmed with the smart key, open the doors using the mechanical key and start the vehicle by pressing the Start/Stop button with the smart key.
- If the system is disarmed by unlocking the vehicle, and a door or the tailgate is not opened within 30 seconds, the doors are relocked and the system is rearmed automatically.



Vehicles equipped with a theft alarm system have a label attached to the vehicle with the following words:

- 1. WARNING
- 2. SECURITY SYSTEM

# Advanced Rear Occupant Alert (ROA)

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

## System setting

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

Information

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

# **System operation**

· First alert

When you turn off the vehicle and open the driver's door after opening and closing the rear door, the 'Check rear seat for passengers and belongings' warning message appears on the cluster display.

Second alert

After the first alert, the second alert operates when any movement is detected in the vehicle after the driver's door is closed and all the doors are locked. The horn will sound for approximately 25 seconds. If the system continues to detect a movement, the alert operates up to 8 times.

Unlock the doors with the smart key to stop the alert.

• The system detects movement in the vehicle for 10 minutes after the door is locked.

- The second alert is activated only after the prior activation of the first alert.
- If you do not want to use Rear Occupant Alert, press the OK button [A] on the steering wheel when the first alert is displayed on the cluster display. Doing so will deactivate the second alert one time.



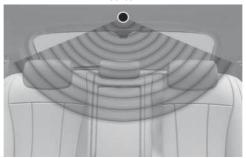
Steering wheel



• If the vehicle is started remotely, inside movement detection will stop.

# **System precautions**

Sensor



- Make sure that all the windows are closed. If the window is open, the alert may operate by the sensor detecting an unintended movement (for example, wind or bugs).
- The alert may operate if movement in the driver or passenger seat is detected.
- If the doors are locked with a passenger inside the vehicle, the alert may operate.
- An alert can occur if the there is an impact on the vehicle.
- · If boxes or objects are stacked in the vehicle, the system may not detect the boxes or objects. Or, the alert may operate if the boxes or objects fall off.
- The alert may operate with the doors locked due to car wash or surrounding vibration or noise.
- The alert may operate when there are metallic or liquid objects in the vehicle.
- Movement is not detected in areas other than the rear seats.



## WARNING

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

Advanced Rear Occupant Alert (ROA) may not operate when:

- Movement does not continue for a certain period of time or the movement is small.
- A child is not seated in a child restraint system.
- The detection signal is weak because the signal is obscured by seat or CRS (for example, child is restrained in the forward-facing CRS).
- The rear passenger is a child over 6 years.
- The rear passenger is covered with a fabric containing metallic substance such as a blanket.
- · An object in the vehicle blocks the sensor.
- The sensor is contaminated by foreign material.
- An animal at the rear seat is not large enough to be detected by the sensor or there is hardly any movement.
- · Attaching objects or modifying the interior ceiling, or the interior ceiling is deformed or damaged.
- There are electronic interference around the vehicle.
- Other environmental reasons that may affect the system.

# **Declaration of Conformity**

The radio frequency components (ROA Radar Sensor) complies:

• For Europe and CE certified countries



Trade mark or Trade name: Hyundai Mobis 203, Teheran-ro, Gangnam-gu, Seoul, 06141, Republic of Korea

M/Name: ICR010

Frequency: 60-64 GHz

Maximum Output Power : 5 dBm

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

Hereby, Hyundai Mobis Co.,Ltd declares that the radio equipment type ICR010 is in compliance with Directive 2014/53/EU.

The full text of the EU declaration of conformity is available at the following internet address: http://www.mobis-as.com/product\_certificate.do

# Steering wheel

## **Motor Driven Power Steering (MDPS)**

The system assists you with steering the vehicle. If the vehicle is turned off or if the power steering system becomes inoperative, you can still steer the vehicle, but it requires increased steering effort.

Should you notice any change in the effort required to steer during normal vehicle operation, we recommend that you have the system checked by an authorized HYUNDAI dealer.



# CAUTION

If Motor Driven Power Steering does not operate normally, the A! warning light and the message "Check motor driven power steering" will illuminate on the instrument cluster. You may steer the vehicle, but it will require increased steering efforts. We recommend that you take the vehicle to an authorized HYUNDAI dealer and have the system checked as soon as possible.

## Information

During normal vehicle operation:

- The steering effort may be high immediately after pressing the Start/Stop button to the ON position.
  - This happens as the system performs the MDPS system diagnostics. When the diagnostics are completed, the steering wheel effort returns to its normal condition.
- · When the battery voltage is low, you might have to put more steering effort. This is a temporary condition and returns to normal condition after charging the battery.
- A click noise may be heard from the MDPS relay after the Start/Stop button is in the ON or OFF position.
- Motor noise may be heard when the vehicle is at a stop or at a low driving speed.
- When you operate the steering wheel in low temperatures, abnormal noise may occur. If the temperature rises, the noise will disappear. This is a normal condition.
- When an error is detected from MDPS, the steering effort assist function will not be activated in order to prevent fatal accidents. The instrument cluster warning lights may be on or the steering effort may be high. If these symptoms occur, drive the vehicle to a safe area as soon as it is safe to do so. We recommend that you have the system checked by an authorized HYUNDAI dealer as soon as possible.

# Tilt/Telescopic steering

When adjusting the steering wheel to a comfortable position, adjust the steering wheel so that it points toward your chest, not toward your face. Make sure you can see the instrument cluster warning lights and gauges. After adjusting, push the steering wheel both up and down to be certain it is locked in position.

Always adjust the position of the steering wheel before driving.



Never adjust the steering wheel while driving. This may cause loss of vehicle control resulting in a collision.

### NOTICE

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

## Manual adjustment



### To adjust:

- 1 Pull down the lock release lever (1).
- 2 Adjust the steering wheel to the desired angle (2) and distance forward/back (3).
- 3 Pull up the lock release lever up to lock the steering wheel in place.

### Information

Sometimes the lock release lever may not engage completely. This may occur when the gears of the locking mechanism do not completely mesh. If this occurs, pull down on the lock-release lever, readjust the steering wheel again, and then pull back up on the release lever to lock the steering wheel in place.

# Steering wheel heater



Press button in the front climate control panel.



While the vehicle is running, touch the # button to warm the steering wheel.

- Manual temperature control
   Each time you press the button, the temperature changes as follows:
  - OFF > HIGH > LOW
  - Pressing the # button when in LOW, the heated steering wheel turns off.
- Automatic temperature control
   ...

The heated steering wheel starts to automatically control the steering wheel temperature after being manually turned ON.

- When HIGH is manually selected:
   The heated steering wheel automatically changes to the LOW position after 30 minutes. You can turn off the heated steering wheel by pressing the button to the OFF position.
- When LOW is manually selected:
   The heated steering wheel is not controlled automatically.

### NOTICE

- Do not install any cover or accessories on the steering wheel to prevent damage to the heated steering wheel system.
- Do not strike the steering wheel surface with a sharp-pointed object. This may damage the heating element in the steering wheel.

## Horn



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

## NOTICE

Do not strike the horn severely to or hit it with your fist. Do not press on the horn with a sharp-pointed object.

## NOTICE

Do not clean the steering wheel surface with the following products:

- · Organic solvents such as thinner, alcohol and gasoline
- · Chemical products such as leather cleaner, coating agent, and wax

## 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 that may interfere with your vision through the rear window.



## WARNING

To prevent serious injury during a collision or deployment of the airbag, do not modify the rearview mirror and do not install a wide mirror.



## WARNING

Never adjust the mirror while driving. This may cause loss of vehicle control and result in a collision.

### 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.

### Electrochromic mirror



#### [A] Sensor

When the vehicle is ON (READY indicator ON), the glare from vehicle headlights behind you is automatically controlled by the sensor mounted in the rearview mirror.

When the gear is shifted to R (Reverse), the mirror automatically goes to the brightest setting in order to improve the driver's view behind the vehicle.

# Digital Center Mirror (DCM)



The Digital Center Mirror is a system that uses the camera on the rear of the vehicle and displays its image on the screen of the Digital Center Mirror. The Digital Center Mirror allows the driver to see the rear view despite obstructions, such as the headrest or luggage, ensuring rear visibility.

# WARNING

- Failure to follow the warnings and instructions for proper use of the Digital Center Mirror could result in serious accident.
  - The Digital Center Mirror is a convenience feature but it is not a substitute for proper vehicle operation. The system has areas where objects cannot be viewed. Check the blind spot of the Digital Center Mirror before vehicle operation. The driver is always responsible for safe driving.
  - Do not operate the Digital Center Mirror while driving. Doing so can be a distraction and it could lose control of your vehicle and cause an accident or serious injury.
  - Do not disassemble or modify the Digital Center Mirror, the camera unit or wirings. If you do, it may result in accidents or fire. In case you notice smoke or smell coming from the Digital Center Mirror, stop using the system immediately. We recommend that you see an authorized HYUNDAI dealer for servicing.
- Be sure to adjust the Digital Center Mirror before driving.
  - Switch the system to the conventional rearview mirror mode and be properly seated on the driver's seat. Then adjust the mirror so as to see the rear window properly.
  - Push the lever all the way to change to digital mirror mode and adjust the display settings. Driving without adjusting the mirror may cause difficulty in watching the display at the Digital Mirror mode (camera view mode) due to the reflection from the surface of the mirror.
  - As the range of the image display by the Digital Center Mirror is different from that of the optical mirror, make sure to check this difference before driving.
- If the Digital Center Mirror malfunctions, immediately switch the system to the conventional rearview mirror mode.
- When strong light (for example, sunlight or high beams from following vehicles) enters the camera, a light beam or a glaring light may appear on the monitor screen of the Digital Center Mirror. In that case, switch the system to the conventional rearview mirror mode appropriately.



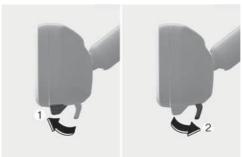
• If the camera lens (1) is dirty, the displayed image may not be clear. In this case, clean it with a soft cloth dampened with water or a swab.

### System component



- 1. Icon display area: Displays icons, adjusting Brightness & Tilt
- 2. Lever: Operate to change between digital mirror mode and optical mirror mode.
- 3. Menu button: Press to display the icon display area and select the item you want to adjust (Brightness & Tilt).
- 4. Select/adjust button: Press to change the setting of the item you want to adjust.
- 5. Camera indicator: Indicates that the camera is operating normally.

### How to change the mode



The mode can be switched when the switch is in the ON position.

1 Pull the mode select lever (1) all the way to switch to the Digital Center Mirror mode (camera view mode).

Information

2 Push the mode select lever (2) all the way to switch to the optical inside rearview mirror mode

Information

Turns off the display of the Digital Center Mirror allows it to be used as an optical mirror.

## Adjusting the mirror height



The height of the rearview mirror can be adjusted to suit your driving posture.

Change to optical mirror mode, adjusting the rearview mirror angle by moving it up and down.

Display settings (Digital mirror mode) Settings of the display in the digital mirror mode.



1 Press the menu button (1). You can adjust the brightness and the vertical angle of the display.

Icons display	Settings	
	Select to adjust the brightness of the display.	
•	Select to adjust the display.	

- 2 Press the menu button repeatedly and select the item you want to adjust.
- 3 Press the button (2) or button (3) to change the setting. The icons will disappear if the button is not operated for approximately 5 seconds or more.

If the brightness of the Digital Center Mirror is set too high, it may cause eye strain. Adjust the Digital Center Mirror to and appropriate brightness. If your eyes become tired, change to optical mirror mode.

## To prevent the light sensors from malfunctioning



To prevent the light sensors from malfunctioning, do not touch or cover them.

### Digital mirror mode operating condition

The Start/Stop button is in the ON position.

When the Start/Stop button is changed from ON position to OFF or ACC position, the image will be disappeared.

## When using the Digital Center Mirror in digital mirror mode

- When the tailgate is open, the Digital Center Mirror image may not display properly. Before driving, make sure the tailgate is closed.
- If the display is difficult to see due to reflected light, close the sunshade for the sunroof (if equipped).
- · Any of the following conditions may occur when driving in the dark, such as at night. None of them indicates that the malfunction has occurred.
  - Colors of objects in the displayed image may differ their actual color.
  - Depending on your physical condition or age, it may take longer than usual to focus on the displayed image. In this case, change to optical mirror mode.
  - Do not let passengers stare at the displayed image when the vehicle is being driven, as doing so may cause motion sickness.

## When the system malfunctions



If the symbol shown in the illustration is displayed when using the Digital Center Mirror in digital mirror mode, the system may be malfunctioning. The symbol will disappear in a few seconds. Operate the lever, change to optical mirror mode and we recommend that you have the vehicle inspected by an authorized HYUNDAI dealer.



# **CAUTION**

To prevent the Digital Center Mirror from malfunctioning

- · Do not use detergents, such as thinner, benzene, and alcohol to clean the mirror. They may dis color, deteriorate or damage the mirror surface.
- Do not remove, disassemble or modify the mirror and camera.
- Do not allow an organic solvent, vehicle wax, window cleaner or glass coating to adhere to the camera. If this happens, wipe it off as soon as possible.
- When cleaning the camera lens, wipe the camera lens with a damp soft cloth.
- Do not strongly rub the camera lens, as it may be scratched and will not be able to transmit a clear image.
- Do not subject the camera to a strong impact as this could cause a malfunction. If this happens, we recommend that you have the vehicle inspected by an authorized HYUNDAI dealer as soon as possible.
- · Operating the system at the ON position while the vehicle is not running would cause discharging of the battery.
- Do not attach an antenna of wireless device near the Digital Center Mirror. Electric wave from wireless device may cause disturbed image in Digital Center Mirror.
- Do not push buttons excessively or operating the lever roughly may cause a system failure or the Digital Center Mirror itself to drop.
- Never rotate the body of Digital Center Mirror by 90° or more. It may damage the Digital Center Mirror. Do not apply strong shocks to the body of Digital Center Mirror. It may cause a system failure.
- If it is difficult to see the Digital Center Mirror display screen because of a strong external light, switch the mode to the conventional rearview mirror mode for better use.

### Digital Center Mirror error icon and solution

Symptom	Likely cause	Solution
If the high temp (➡) icon is displayed on the display right side.	The Digital Center Mirror is extremely hot. (The display will gradually become more dim. If the temperature continues to increase, the Digital Center Mirror will turn off.)	Reducing the cabin temperature is recommended to reduce the temperature of the mirror. (The icon will disappear when the mirror becomes cool.)  If the icon does not disappear even though the mirror is cool, we recommend that you have the vehicle inspected by an authorized HYUNDAI dealer.
If the display ((	The system may be malfunctioning.	Change to optical mirror mode and we recommend that you have the vehicle inspected by an authorized HYUNDAI dealer.

### Side view mirrors



Your vehicle is equipped with both left-hand and right-hand side view mirrors. The mirrors can be adjusted with the mirror adjustment control switch. Adjust the rearview mirrors to your desired position before driving. 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.



# **MARNING**

The left and right side view mirrors are convex. Objects seen in the mirror are closer than they appear.

Use the side view mirror or turn your head and look 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 a collision.

### NOTICE

- Do not scrape ice off the mirror face. This may damage the surface of the glass.
- If the mirror is jammed with ice, do not adjust the mirror by force. Use an approved de-icer (not radiator antifreeze) spray, or a sponge or soft cloth with very warm water, or move the vehicle to a warm place and allow the ice to melt.
- Do not clean the mirror with harsh abrasives, fuel, or other petroleum based cleaning products.

# Adjusting the side view mirrors



### Adjusting the side view mirrors

- 1 Press the switch (1) to the L (left side) or R (right side) to select the side view mirror you want to adjust.
- 2 Use the mirror adjustment control switch (2) to position the selected mirror up, down, left, or right.
- 3 After adjustment, press the switch (1) to the middle to prevent unintended adjustment.

### NOTICE

- · The mirrors stop moving when they reach the maximum adjusting angles, but the motor continues to operate while the switch is pressed. Do not press the switch longer than necessary, because this can damage the motor.
- Do not adjust the side view mirrors by force to prevent damage to the motor.

## Folding the side view mirrors

## **Folding button**



The side view mirrors can be folded or unfolded by pressing the button.

### **Infotainment system setting**

- Fnable on door unlock
  - If **Settings** > **Vehicle** > **Lights** > **Welcome mirror** > **On door unlock** is selected in the infotainment system:
  - The mirror folds or unfolds when the door is locked or unlocked using the smart key.
  - The mirror folds or unfolds when the door is locked or unlocked by the touching the touch sensor on the outside door handle.
- Enable on driver approach

If **Settings** > **Vehicle** > **Lights** > **Welcome mirror** > **On driver approach** is selected in the infotainment system, the mirror unfolds when the vehicle is approached with the smart key in possession.

#### Information

- The infotainment system may change after software updates. For more information, refer to the manual provided in the infotainment system and the quick reference guide.
- For your safety, the side view mirrors cannot be folded automatically when driving at a speed of 15 km/h (9 mph) or faster.

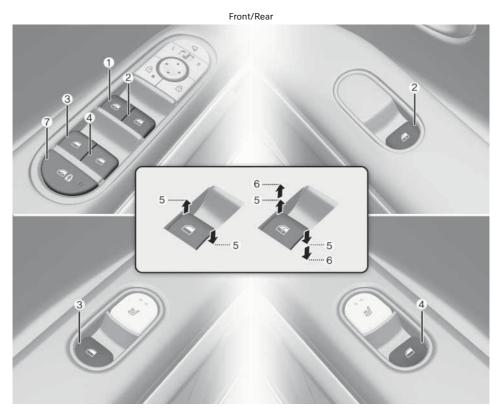
## NOTICE

To prevent unnecessary battery discharge, do not adjust the mirrors longer than necessary when the vehicle is not running.

## NOTICE

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

## **Windows**



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

### **Power windows**

The Start/Stop button must be in the ON position to be able to raise or lower the windows. Each door has a power window switch to control the door's window. The driver has a Power Window Lock button that can block the operation of rear passenger windows. The power windows operate for about 3 minutes after the Start/Stop button is in the ACC or OFF position. If the front doors are opened, the battery power is turned OFF and the power windows do not operate.

## Window opening and closing



### To open:

Press the window switch down to the first detent position (5). Release the switch when you want the window to stop.

#### To close:

Pull the window switch up to the first detent position (5). Release the window switch when you want the window to stop.

# Auto up/down window

Pressing the power window switch momentarily to the second detent position (6) completely lowers or lifts the window even when the switch is released. To stop the window at the desired position while the window is operating, pull up or press down and release the switch.



### WARNING

- Do not leave the vehicle running and the key in your vehicle with unsupervised children. Unattended children could operate the window, which could result in serious injury.
- Do not extend your head, arms or any other body parts or objects outside the window while driving to avoid serious injury.

# Resetting the power windows

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

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

If the power windows do not operate properly after resetting, we recommend that you contact an authorized HYUNDAI dealer.



## MARNING

Make sure body parts or other objects are out of the way before closing the windows. The automatic reverse feature does not operate while resetting the power window system.

### Automatic reversal



If a window senses any obstacle while it is closing automatically, it stops and lowers about 30 cm (12 in.) to allow the object to be cleared.

If the window detects any resistance while the power window switch is pulled up continuously, the window stops upward movement and then lowers about 2.5 cm (1 in.).

If the power window switch is pulled up continuously again within 5 seconds after the window is lowered by the automatic window reverse feature, the automatic window reverse does not operate.

### Information

The automatic reverse feature is active only when the "Auto Up" feature is used by fully pulling up the switch to the second detent.

### NOTICE

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



# MARNING .

Make sure body parts or other objects are safely out of the way before closing the windows to avoid injuries or vehicle damage.

Objects less than 4 mm (0.16 in.) in diameter caught between the window glass and the upper window channel may not be detected byfse the automatic reverse window and the window does not stop and reverse direction.

## Power window lock button



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

When the power window lock button is pressed:

- The driver's master control can operate all the power windows.
- The front passenger's control can perate the front passenger's power window.
- The rear passenger's control cannot operate the rear passengers' power window.



## MARNING

Do not allow children to play with the power windows. Keep the driver's door power window lock button in the LOCK position. Serious injury or death may 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 also ensures 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 stops and cannot be opened or closed.

# Remote window opening/closing feature





- Press and hold the door lock button (1) for more than 3 seconds and the front windows
  move up after the doors are locked. Window movement stops when you release the
  door lock button.
- Press and hold the door unlock button (2) for more than 3 seconds and the front windows move down after the doors are unlocked. Window movement stops when you release the door unlock button.
- The Remote window opening/closing feature can be turned on and off in the infotainment system. Select Settings > Vehicle > Door > Remote window control to on or off.

## Information

- The remote window opening/closing feature operates only with the Safety Power Windows equipped.
- The remote window opening/closing feature may abruptly stop when you move away from your vehicle during operation. Stay in close proximity from your vehicle, while monitoring the window movement.
- One of the windows may stop operating when the window is interrupted by certain force. However, the other windows keep operating. Make sure that all windows are closed.
- The doors unlock when the windows are opened using the remote window open/ closing feature.



### WARNING

Always double check to make sure arms, hands, head and other obstructions are safely out of the way before using remote window closing feature.

### NOTICE

Do not leave the windows down when leaving the vehicle to prevent theft or damage from water entering the vehicle.

# **Vision roof**

# tif equipped



If your vehicle is equipped with a vision roof, you can slide open the power sunshade and an all-glass roof appears.

## Power sunshade

Use the power sunshade to block direct sunlight coming through the vision roof glass.





The power sunshade can only be operated when Start/Stop button is in the ON or START position.

- Push the switch rearward, the power sunshade automatically slides open.
- Push the vision roof switch forward, the power sunshade automatically closes.

To stop the power sunshade at any point, push the switch in any direction.

### 246 Convenience Features

## Information

- The power sunshade can be operated for approximately 3 minutes after the Start/Stop button is in the ACC or OFF position. However, if the front door is open, the power sunshade cannot be operated even within the 3 minute period.
- Wrinkles formed on the power sunshade are normal due to material characteristic.



# MARNING

- Adjust the power sunshade when your vehicle stops. This could result in loss of control and an accident that may cause injury, or property damage.
- Do not leave the vehicle running and the key in your vehicle with unsupervised children. Unattended children could operate the power sunshade, which could result in injury.
- Do not sit on the top of the vehicle. It may cause injury or vehicle damage.

### NOTICE

Do not pull or push the power sunshade by hand as such action may damage the power sunshade or cause it to malfunction.

### Automatic reversal



If the power sunshade senses any obstacle while it is closing automatically, it will reverse direction then stop at a certain position.

The auto reverse function may not work if an object thin or soft is caught between the sliding power sunshade and vision roof sash.



# WARNING

- Make sure heads, hands, arms or any other body parts or objects are out of the way before operating the power sunshade. Body parts or objects may get caught causing injuries or vehicle damage.
- Never deliberately use your body parts to test the automatic reversal function. The power sunshade may reverse direction, but there is a risk of injury.

#### NOTICE

Do not continue to push the switch after the power sunshade is fully opened or closed. Damage to the power sunshade motor could occur.

# Resetting the vision roof



In some circumstances resetting the power sunshade operation may need to be performed. Some instances where resetting the power sunshade may be required include:

- When the 12 V battery is either disconnected or discharged
- · When the power sunshade fuse is replaced
- If the power sunshade one-touch AUTO OPEN/CLOSE operation is not functioning properly

Vision roof resetting procedure:

- 1 It is recommended to perform the reset procedure with the vehicle in the ready mode. Start the vehicle in P (Park).
- 2 Make sure the power sunshade is in the fully closed position. If the power sunshade is open, push the switch forward until the power sunshade and is fully closed.
- 3 Release the switch when the power sunshade is fully closed.
- 4 Push the switch forward until the power sunshade moves slightly. Then release the switch.
- 5 Once again push and hold the switch forward until the power sunshade slides open and close. Do not release the switch until the operation is completed.
  If you release the switch during operation, start the procedure again from step 2.

### ... you reloaded the erritors during operation, etail time process

If the power sunshade is not reset when the vehicle battery is disconnected or discharged, or the power sunshade fuse is blown, the power sunshade may not operate normally.

Information

### Hood

### **Opening the hood**

- 1 Park the vehicle and apply the parking brake.
- 2 Pull the hood release lever to unlatch the hood. The hood pops open slightly.



3 Go to the front of the vehicle, raise the hood slightly, push to the left the secondary hood release lever (1) inside of the hood center and lift the hood (2).



After the hood has been lifted halfway, it raises completely by itself.

## Closing the hood

- 1 Before closing the hood, check in and around the motor compartment to ensure the following:
  - · Any tools or other loose objects have been removed.
  - All gloves, rags, or other combustible material have been removed.
  - All filler caps are tightly and correctly installed.
- 2 Lower the hood until it is about 30 cm (12 in.) above the closed position and then let it drop.
- 3 Check the hood has locked properly. If the hood is raised slightly, open it again and drop it from a little higher. Check again.

# WARNING

- · Before closing the hood, ensure all obstructions are removed from around the hood opening.
- · Always double check to make sure that the hood is firmly latched before driving away. Check there is no hood open warning light or message displayed on the instrument cluster. Driving with the hood open may cause a total loss of visibility, resulting in a collision.
- · Do not move the vehicle with the hood raised. It may block your vision and may result in a collision.

# **Power tailgate**

### Power tailgate operating conditions

The power tailgate operates when the gear is in P (Park) with the Start/Stop button is in the ON position. The tailgate operates regardless of the gear position when the vehicle is off.



## 🛕 WARNING

- Never leave children or animals unattended in your vehicle. Children may operate the power tailgate that could result in serious injury or property damage.
- Make sure that there are no people or objects in the path of the power tailgate or smart tailgate before use. Serious injury, damage to the vehicle or damage to surrounding objects (for example, walls, ceilings, vehicles, etc.) may result if contact with the tailgate occurs.



- The tailgate may not open or may close unintentionally injuring people around the tailgate under the following situation:
  - There is a lot of snow on the tailgate.
  - There is a heavy object on the tailgate such as a bicycle carrier, ladder, etc.

Do not open the tailgate before removing snow or heavy object on the tailgate.

#### NOTICE

- Do not close or open the power tailgate manually. This may cause damage to the power tailgate. If it is necessary to close or open the power tailgate manually when the battery is discharged or disconnected, do not apply excessive force.
- Do not operate the power tailgate more than 10 times continuously when the vehicle is not running. Use the power tailgate with the vehicle running when the power tailgate is used repeatedly to prevent battery discharge.
- Do not leave the tailgate open for a long period of time. This may drain the battery.
- The power tailgate may not operate if the tailgate is left open for a long time. If it does not work, close it manually to the end at a slow pace.
- Do not apply excessive force when the power tailgate is operating. Doing so could result in vehicle damage.
- Always close the tailgate before driving. Do not grab or hold on to the tailgate support struts or they may be damaged. Deformation of the tailgate support struts may result in vehicle damage and personal injury.



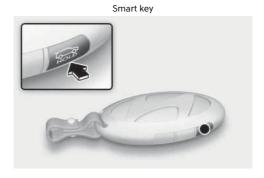
- Do not modify or repair any part of the power tailgate by yourself. We recommend that you contact an authorized HYUNDAI dealer.
- Do not operate the power tailgate under the following conditions. The power tailgate may not operate properly.
  - One side of the vehicle is lifted to inspect the vehicle or change a tire.
  - Parking on an uneven road such as a slope, etc.
- · Close the tailgate completely and lock all doors and tailgate using the central door lock button before using an automatic car wash.
- Do not spray high pressure water directly on the power tailgate outside open/close button. The tailgate may open unintentionally.

#### Information

- In cold and wet climates, the outside power tailgate open button may not work properly due to freezing conditions. If this occurs, remove the ice before using the outside power tailgate open/close button or use the power tailgate open/close button on the smart key or the instrument panel.
- If you leave the smart key in the tailgate and close the tailgate, a warning sounds for a few seconds. If this occurs, open the tailgate by pressing the power tailgate open button on the outside of the tailgate.
- If there are obstacles such as snow on the tailgate, the tailgate may not open automatically. After removing the obstacle, try to open it again.
- Be careful where there is an incline, as the tailgate lid may drop slightly when it is stopped before it fully opens.

### Operating the power tailgate

### Power tailgate open/close button (smart key, instrument panel)





Instrument panel

When the tailgate is closed, press the power tailgate open/close button for 1 second. The tailgate opens with a warning sound.

While the tailgate is opening, press the button to stop power tailgate operation.

When the tailgate is opened, press and hold the power tailgate open/close button to close the tailgate. If you release the button while the tailgate is closing, power tailgate operation stops with a warning sound for 5 seconds.

Also, if the smart key is not within operation range from the vehicle, tailgate operation stops with a warning sound for 5 seconds.



### MARNING

Make sure that there are no people or objects in the path of the tailgate before pressing the open/close button inside the power tailgate and the smart key.

Otherwise, this may cause serious injury or damage to the vehicle or object.

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



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

If the vehicle is locked, press the power tailgate open/close button with the smart key in your possession.

If the tailgate is unlocked, the tailgate opens or closes with a warning sound when the power tailgate open/close button is pressed without carrying the smart key.

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



Press the power tailgate open/close button. The tailgate opens or closes automatically.

#### Automatic reversal

During power tailgate operation if the power tailgate senses any obstacle, the tailgate stops or fully opens. The automatic reverse feature may not operate properly, or it may operate unexpectedly under the following circumstances:

- The automatic reverse feature may not detect the resistance if the detected resistance is below a certain level, or if the tailgate is almost fully closed near the latched position.
- The automatic reverse feature may operate if a strong impact is applied with no obstructions placed.



### WARNING \_

Never deliberately place any object or use your body part to test the automatic reverse

#### Information

The power tailgate may stop operating if the automatic reverse feature operates more than two times while attempting to open or close the tailgate. If this occurs, carefully open or close the tailgate manually, and then after 30 seconds try to operate the power tailgate automatically again.

### Setting the power tailgate

To use each feature, you must select the opening speed or opening height in the infotainment system. Deselect the settings when you do not want to use the feature.

## Power tailgate opening speed

To adjust the power tailgate opening speed, select Settings > Vehicle > Door > Power Tailgate Opening Speed in the infotainment system.

### Power tailgate opening height

To adjust the power tailgate opening height, select Settings > Vehicle > Door > Power Tailgate Opening Height in the infotainment system.

### Information

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

# User height setting

- 1 Position the tailgate manually to the height you prefer.
- 2 Press the power tailgate open/close button located inside the tailgate for more than 3 seconds.

If "User height setting" is selected for the power tailgate opening height, the power tailgate will automatically open to the height manually set by you.

#### Information

- If the power tailgate opening height has not been manually set, the power tailgate will fully open when "User height setting" in the infotainment system is selected.
- If one of the height setting (**Full open/Level 3/Level 2/Level 1**) is selected in the infotainment system, and then "**User height setting**" is selected, the tailgate opens to the height manually set by you.
- The power tailgate opening speed and opening height settings change according to the linked User Profile. If the User Profile is changed, power tailgate opening speed and opening height settings change accordingly.

### Resetting the power tailgate

To reset the power tailgate:

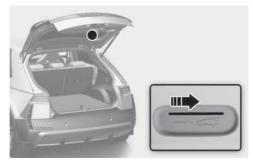
- 1 With the vehicle turned off or on, put the gear in P (Park).
- 2 Press the power tailgate open/close inner button and outer button simultaneously until a chime sounds.
- 3 Slowly close the tailgate manually.
- 4 Press the power tailgate open/close outer button. The tailgate opens with a chime sound.

Wait until the tailgate fully opens to complete resetting. If the tailgate stops before it is fully open, resetting cannot be completed.

### Information

- If the power tailgate is not reset after the vehicle battery is disconnected or discharged, or the power tailgate fuse is blown, the power tailgate may not operate normally.
- If the power tailgate does not operate properly after the above procedure, we recommend that your vehicle be inspected by an authorized HYUNDAI dealer.

# **Emergency tailgate safety release**



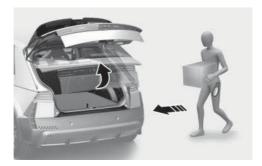
To unlock and open the tailgate manually from inside the cargo area, perform the following:

- 1 Insert a long, flat object, such as a key into the opening at the bottom of the tailgate.
- 2 Slide the latch in the direction of the arrow to unlock the tailgate.
- 3 Push the tailgate open.

# MARNING

- Never allow anyone to occupy the tailgate of the vehicle at any time. The cargo area is a very dangerous location in the event of a collision because it is part of the vehicle's crush zone.
- · Use the release lever for emergencies only.

# **Smart tailgate**



On a vehicle equipped with a smart key, the tailgate can be opened with hands-free activation using the smart tailgate system.

### Using smart tailgate

The hands-free smart tailgate system can be used when:

- The smart tailgate option is enabled in the infotainment system.
- The smart tailgate is activated 15 seconds after all the doors are closed and locked.
- The smart tailgate opens when the smart key is detected in the area behind the vehicle for 3 seconds.

#### Information

The smart tailgate does not operate when:

- · A door is not locked or closed.
- The smart key is detected within 15 seconds from when the doors were closed and locked.
- The smart key is detected within 15 seconds after the doors are closed and locked, and within 1.5 m (60 in.) from the front door handles. (for vehicles equipped with Welcome Mirror).
- · The smart key is in the vehicle.

## 1 Settings

To use smart tailgate, it must be enabled in the infotainment system.

• Select Settings > Vehicle > Door > Smart Tailgate

#### Information

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

#### 2 Detect and Alert

The smart tailgate detecting area extends about 50-100 cm (20-40 in.) behind the vehicle. If you are positioned in the detecting area and are carrying the smart key, the hazard warning lights blink and the chime sounds before opening.

If you unintentionally enter the detecting area and the hazard warning lights and chime starts, move away from the vehicle with the smart key. The tailgate remains closed.

### 3 Automatic opening

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

### **Deactivating smart tailgate**

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

Using the smart key:

- If you press the door unlock button, the smart tailgate is deactivated temporarily. If you do not open any door for 30 seconds, the smart tailgate is activated again.
- If you press the tailgate open button for more than 1 second, the tailgate opens.
- The smart tailgate is still activated if you press the door lock button or tailgate open/ close button as long as the smart tailgate is not in the Detect and Alert stage.

### **Detecting area**



- The smart tailgate detecting area extends about 50-100 cm (20-40 in.) behind the vehicle. If you are positioned in the detecting area and are carrying the smart key, the hazard warning lights blinks and the chime sounds for a few seconds to alert you that the tailgate opens.
- The alert stops once the smart key is moved outside of the detecting area within the 3 second period.

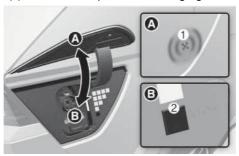
### Information

- Smart tailgate may not operate properly if any of the following occur:
  - The smart key is close to a radio transmitter such as a radio station or an airport which can interfere with normal operation of the transmitter.
  - The smart key is near a mobile two way radio system or a smartphone.
  - Another vehicle's smart key is being operated close to your vehicle.
  - The temperature drops below zero degree.
- Smart tailgate detecting area may change when:
  - The vehicle is parked on an incline or slope.
  - One side of the vehicle is raised or lowered relative to the opposite side.

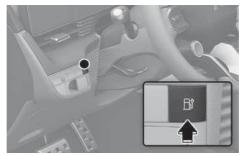
# **Electric charging door**

The driver can open and close the charging door with the following methods:

- When the shift gear is in P (Park), push the charging door to open (1)
- Push the Close button (2) located inner part of the charging door



- [A] Charging door to open
- [B] Charging door to close
- Press the charging door button in the Instrument panel



· Use the Voice Recognition

#### NOTICE

- If the charging door does not open because ice has formed around it, tap lightly or push on the door to break the ice and release the door. If necessary, use hand temperature to melt down the ice or move the vehicle to a warm place and allow the ice to melt. Do not pry on the charging door or use unauthorized tools to open the charging door.
- After closing the charging door, push the door again to ensure that the charging door is completely closed.
- Make sure that the charging door is closed before driving the vehicle. If the charging door is opened, mechanical parts of the charging door can be damaged.
- After closed the charging door, be sure to check the warning light is off.
- After charging the vehicle, close the charging inlet by the charging inlet cover properly. If the charging inlet cover is closed improperly, the charging inlet and the charging door can be damaged.
- Do not pry on the charging door while the charging door is opening. The charging door may stop moving. Also, the electrical mechanism of the charging door and its related parts can be severely damaged.
- While washing the vehicle, do not spray a high pressure water to the charging door directly. The high pressure can damage the charging door.



## CAUTION

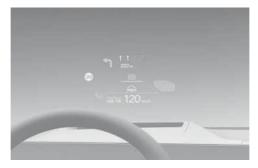
- · The charging door opens upwards. Check the surrounding while the charging door is open or close. Be aware of your head or limbs from being hit or stuck to the charging door.
- Do not hold the hinge to prevent damaging the charging door and causing other accidents.

#### Information

- The charging door automatically closes when:
  - The charging connector is disconnected
  - The door is opened and the charging connector is not connected for a certain period of time
  - The gear is not in P (Park)
- · After replacing battery (12 V), open and close the charging door once to check that the charging door automatic opening mechanism is functioning properly.

For more details, refer to "Charging your electric vehicle" section in chapter 1.

# Head-up display (HUD)



The Head-Up Display is an optional feature that allows the driver to view information projected onto a transparent screen while still keeping your eyes safely on the road ahead while driving.

### **Head-up display settings**

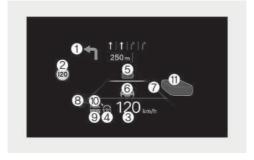


- · Head-up display can be enabled from the Settings menu in the infotainment system. Select Settings > Cluster/Head-up display > Head-up display > Enable head-up display.
- After turning on the head-up display, you can change the settings of "Display adjustment" and "Content selection" of the Head-Up Display.

#### Information

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

# **Head-up display information**



Racing theme



Racing theme (N e-Shift Driving mode)



- 1. Turn by Turn (TBT) navigation
- 2. Traffic signs or speed limit information
- 3. Speedometer information
- 4. SCC set speed information
- 5. SCC vehicle distance information
- 6. Lane Following Assist information
- 7. Lane Safety information
- 8. Blind-Spot Safety information
- 9. Highway Auto Speed Change information

### 264 Convenience Features

- 10. Highway Driving Assist information
- 11. Surrounding vehicle information (if equipped)
- 12. Charge/Power status information
- 13. Current gear information
- 14. Regenerative braking intensity information
- 15. Shift light information
- 16. Virtual engine status information

### Precautions while using the head-up display

- It may sometimes be difficult to read information on the Head-Up Display in the following situations.
  - The driver is improperly positioned in the driver's seat.
  - The driver wears polarizing-filter sunglasses.
  - An object is located above the head-up display cover.
  - The vehicle is driven on a wet road.
  - Any improper lighting accessory is installed inside the vehicle, or there is incoming light from outside of the vehicle.
  - The driver wears glasses.
  - The driver wears contact lenses.
  - The driver is too tall or short.

When it is difficult to read the head-up display information, adjust the image position or brightness level in the infotainment system.

- Since the information displayed on the head-up display partially overlaps with the road ahead, you may feel fatigue and discomfort while driving. If you feel tired or uncomfortable, adjust the image, and if the symptoms persist, turn off the head-up display before driving.
- For your safety, make sure to stop the vehicle before adjusting the settings.
- Do not tint the front windshield glass or add other types of metallic coating. Otherwise, the head-up display image may be invisible.
- Do not place any accessories on the dashboard or attach any objects on the windshield glass.
- When replacing the front windshield glass, replace it with a windshield glass designed for head-up display operation. Otherwise, duplicated images may be displayed on the windshield glass.



### MARNING

- The warning information of Blind-Spot Safety on the Head-Up Display are supplemental. Do not solely depend on them to change lanes. Always take a look around before changing lanes.
- ALWAYS pay attention on the road while driving when the Head-Up Display is on.

## **Information**

Head-up Display includes GPL, LGPL, MPL and other open source license softwares. All license notices including related source code are provided at http://www.mobis.co.kr/ opensource/list.do.

If the driver requests on-board software open source code via MOBIS\_OSSrequest@mobis.co.kr within 3 years after buying this product, a CD-ROM or other storage device will be sent with the minimum cost covering storage device cost and delivery cost.

# Vehicle system OTA update

The OTA (Over-the-Air) software update feature allows you to wirelessly update software to the latest version. Using this feature, you can keep your vehicle system up to date with the latest software.

Information

The OTA software update feature is only available for Hyundai Blue Link users.

### **Downloading software**

The latest software can be downloaded automatically while driving. After the latest software has been successfully downloaded, you receives a notification on your phone or the vehicle screen that the software update is available.

### Approving software update



After the vehicle is turned off, the vehicle system allows you to start the update.

- To start the update, press Start (1).
- To postpone the update, press Later (2).

## **Preparing software update**

If you press the **Start** button on the screen, the vehicle begins installing the update automatically. The following conditions must be satisfied:

- · The vehicle must be off.
- The gear must be in P (Park).
- The Electronic Parking Brake (EPB) must be applied.
- · The exterior lights must be turned off.
- · The hood must be closed.
- · The battery must be sufficient.

• The systems to be updated must not be running.



- To update immediately, press Update Now.
- To cancel the update, press Cancel Update.

## **Updating software**



You can see the progress of the update on the screen.

After the update is complete, you receives a notification on your phone or the vehicle screen that the software update is complete.

### Information

The screen turns off automatically after 3 minutes to save the battery. If the screen turns off automatically, you can check the update progress by pressing the Start/Stop button.

#### Information

- After the update starts, you can exit the vehicle.
- The update details may vary depending on the installed software version.
- Check the notice for the OTA software update on the HYUNDAI brand web.
- If the update fails, the update recovery will automatically proceed. If you want to retry
  the software update, even after a successful recovery, we recommend you to contact
  HYUNDAL.
- If the update or recovery fails, we recommend you to contact HYUNDAI Call Center.
- After the update is complete, it may provide new functions or improvements. For more
  information, see the "OTA Software Update" page on the HYUNDAI brand web or scan
  the QR code on the screen.

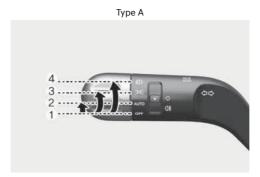
### NOTICE

- · Observe the following restrictions during the update.
  - You cannot use the vehicle during the update. Be sure to have enough time for the update, and safely park the vehicle before starting the update process.
  - You cannot use remote features, including remote start.
  - Vehicle charging is not available. Charge the vehicle after the update is complete.
  - The Rear Occupant Alert feature may not work. Check if there are any occupant in the rear seat.
  - If there is an update for the Hyundai Digital Key feature, the doors cannot be locked or unlocked using the digital key. If the Hyundai Digital Key feature is being updated, use the smart key to lock or unlock the doors.
- The update is automatically canceled if any vehicle conditions required for the update are changed before starting the update.
- Once the update has started, you cannot cancel the update.
- Note that the high-voltage-related modules for charging the 12 V battery may work during the update.
- You cannot use the OTA software update feature if you modify or replace any vehicle software.
- Do not open the hood or replace the battery in the vehicle during the update. The
  update may fail.
- If a diagnostic tool of any kind is connected to the vehicle OBD (On-board Diagnostic) terminal, the vehicle cannot be updated. The vehicle can be updated by removing the diagnostic tool connected to the OBD terminal and then restarting the vehicle.
- If the update is not complete successfully, we highly recommend you to contact HYUNDAI.

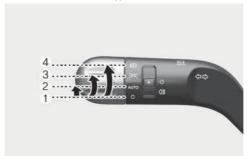
# **Exterior lights**

# **Lighting control**

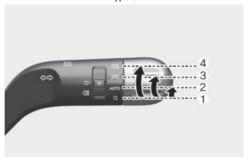
To operate the lights, turn the knob at the end of the control lever to one of the following positions:



Type B



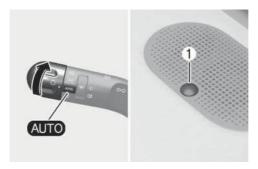
Type C



- 1. OFF (O)
- 2. AUTO light
- 3. Position light

#### 4. Headlight

## AUTO headlight



The position light and headlight are turned ON or OFF automatically depending on the amount of daylight as measured by the ambient light sensor (1) in front of the instrument panel.

Even with the AUTO headlight feature in operation, it is recommended to manually turn ON the headlights when driving at night or in a fog, driving in the rain, or when you enter dark areas, such as tunnels and parking facilities.

#### NOTICE

- Do not cover or spill anything on the sensor (1) located 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 headlight system may not work properly.

# Position light



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

### Headlight



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

Information \_\_\_

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

### **High beam operation**



To turn on the high beam headlight, push the lever away from you. The lever returns to its original position.

The high beam indicator illuminates when the headlight high beams are switched on. To turn off the high beam headlight, pull the lever towards you. The low beams turn on.



### MARNING

Do not use high beam when there are other vehicles approaching you. Using high beam could obstruct the other driver's vision.



To flash the high beam headlight, pull the lever towards you, then release the lever. The high beams remain ON as long as you hold the lever.

### Turn signals and lane change signals



To signal a turn, push down on the lever for a left turn or up for a right turn in position [A]. If an indicator stays on and does not flash or if it flashes abnormally, one of the turn signal bulbs may be burned out and may require replacement. We recommend that you contact an authorized HYUNDAI dealer.

# One touch turn signal

To use One touch turn signal, push the turn signal lever up or down to position [B] and then release it.

The lane change signals blink 3, 5, or 7 times.

You can enable the One touch turn signal function or choose the number of blinking by selecting Settings > Vehicle > Lights > One touch turn indicator > 7 flashes/5 flashes/3 flashes/Off in the infotainment system.

### **Rear fog light**



To turn on the rear fog light:

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

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

- · Turn off the headlight switch.
- Turn the headlight switch (1) to the rear fog light position again.

### **Battery saver function**

To prevent the battery from being discharging, the system automatically turns off the position light when the driver turns the vehicle off and opens the driver's door.

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

To keep the lights on when the vehicle is turned off:

- 1 Open the driver's door.
- 2 Turn the position lights OFF and ON again using the headlight switch.

### Headlight leveling device



To adjust the headlight beam level according to the number of the passengers and loading weight in the luggage area, turn the beam leveling switch.

The higher the number on the switch position, the lower the headlight beam level. Always keep the headlight beam at the proper leveling position, or headlights may dazzle other road users.

Listed below are examples of appropriate switch settings for varying loads. For loading conditions other than those listed, adjust the switch position to the most similar situation.

Loading condition	Switch position
Driver only	0
Driver + Front passenger	0
Full passengers (including driver)	1
Full passengers (including driver) + Maximum permissible loading	2
Driver + Maximum permissible loading	3



#### WARNING

If the function does not work properly, we recommend that the system be inspected by an authorized HYUNDAI dealer. Do not attempt to inspect or replace the wiring yourself.

### Headlight delay function

If the Start/Stop button is in the ACC or OFF position with the headlights ON, the headlights (and/or position lights) remain on for about 5 minutes.

If the driver's door is opened and closed, the headlights are turned off after 15 seconds. Also, with the vehicle off if the driver's door is opened and closed, the headlights (and/or position lights) are turned off after 15 seconds.

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

You can enable the headlight delay function by selecting Settings > Vehicle > Lights > Headlight time-out in the infotainment system.

### Information

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

To avoid battery discharge, turn OFF the headlights manually from the headlight switch before exiting the vehicle.

# **Interior button lights**

The interior button lights turns on or off in the following conditions:

- The interior button lights turn on for a while when the door is unlocked and opened after all doors were closed and locked.
- The interior button lights always turns on when the vehicle is turned on.
- The interior button lights turn on for a while when the vehicle is turned off. If the door is opened and closed or locked, the interior button lights turn off immediately.

You can enable the interior button lights by selecting Settings > Vehicle > Lights > Interior lights On in the infotainment system.

# **Daytime Running Light (DRL)**

The Daytime Running Lights (DRL) can make it easier for others to see the front of your vehicle during the day, especially after dawn and before sunset.

It automatically turns ON once the vehicle is ON.

The DRL system turns OFF when:

- · The headlights are on.
- The parking brake is applied.
- · The vehicle is off.

# **High Beam Assist (HBA)**

### tif equipped



Hight Beam Assist automatically switches between high beam and low beam depending on the detected brightness from the lights of oncoming vehicles or vehicles in front.

### Detecting sensor



#### [A] Front view camera

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

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

#### NOTICE

- Always keep the front view camera in good condition to maintain optimal performance of High Beam Assist.
- For more information on the limitations of the front view camera, refer to the "Forward Collision-Avoidance Assist (FCA)" section in chapter 7.

### **High Beam Assist settings**



With the Start/Stop button in the ON position, select **Settings > Vehicle > Lights > HBA (High Beam Assist)** in the infotainment system to turn on High Beam Assist and deselect to turn off the function.



### WARNING

Only change the settings after parking your vehicle at a safe location.

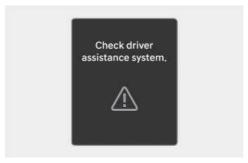
### **High Beam Assist operation**

- After selecting HBA (High Beam Assist) from the infotainment system to operate High Beam Assist:
  - Place the headlight switch in the AUTO position and push the headlight lever towards the instrument cluster. The High Beam Assist ( ) indicator light illuminates.
  - When High Beam Assist is enabled, high beams turn on when the vehicle speed is above 30 km/h (20 mph) and the High Beam (≣D) indicator illuminates. When the vehicle speed is below 20 km/h (12 mph), high beams do not turn on and the indicator light illuminates in white.
- · When High Beam Assist is operating:
  - If the turn signal lever is pulled toward you when the high beams are off, the high beams turn on. When you let go of the turn signal lever, High Beam Assist operates again.
  - If the turn signal lever is pulled toward you when the high beams are on by High Beam Assist, the low beams turn on and High Beam Assist turns off.
  - If the turn signal lever is pushed away from you, the high beams turn on and High Beam Assist turns off.
  - If the headlight switch is moved from AUTO to another position (headlight/position/ off), the corresponding light turns on and High Beam Assist turns off.
- When High Beam Assist is operating, high beam switches to low beam if:
  - The headlights of an oncoming vehicle are detected.
  - The tail lights of a front vehicle are detected.
  - The headlight or tail light of a motorcycle or a bicycle is detected.
  - The surrounding ambient light is bright enough so high beams are not required.
  - Streetlights or other lights are detected.

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

## **High Beam Assist malfunction and limitations**

### High Beam Assist malfunction



When High Beam Assist is not working properly, the "Check driver assistance system." warning message may appear, and the A warning light may illuminate on the instrument cluster. We recommend that the system be inspected by an authorized HYUNDAI dealer.

### Limitations of High Beam Assist

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

- The headlights from an oncoming or front vehicle is damaged or out of the detection range.
- The headlights from an oncoming or front vehicle are covered with dust, snow, or water.
- An oncoming or front vehicle's headlights are off but the fog lights are on.
- There are lights that have a similar shape as a vehicle's light ahead.
- The headlights are not repaired or replaced properly.
- · The headlights are not aimed properly.
- You are driving on a narrow curved road, rough road, uphill, or downhill.
- A front vehicle is partially visible at a crossroad or on a curved road.
- There is a temporary reflector or flash ahead (construction area).
- There is a traffic light, reflecting sign, LED sign, or reflectors ahead.
- The road is wet or covered with snow or ice.
- · A vehicle suddenly appears from a curve.
- The vehicle is tilted due to a flat tire or being towed.
- The headlights from an oncoming or front vehicle is not detected because of exhaust fumes, smoke, fog, snow, blizzard, water spray on the road, or windshield condensation, etc.

Information

For more information on the limitations of the front view camera, refer to the "Forward Collision-Avoidance Assist (FCA)" section in chapter 7.



## **▲** WARNING

- Always check road conditions, and if necessary, take appropriate actions to drive safely. It is your responsibility to operate your vehicle in a safe manner.
- If High Beam Assist does not operate properly, use the turn signal lever to switch between high beam and low beam.
- · High Beam Assist may not operate for 15 seconds right after your vehicle is started or when the front view camera is initialized.

# **Interior lights**



### WARNING

Do not use the interior lights when driving in the dark. The interior lights may obscure your view and result in a collision.

Do not use the interior lights for extended periods when the vehicle is turned off. Otherwise, the battery discharges.

### **Interior lamp AUTO off**

The interior lights automatically go off about 20 minutes after the vehicle is turned off and the doors are closed. If a door is opened, the light go off 25 minutes after the vehicle is turned off. If the doors are locked by the smart key and the vehicle enters the armed stage of the theft alarm system, the lights go off 5 seconds later.

### Front lights



- 🔊 😅: Press the lens to turn on or off the map lamp. This light produces a spot beam for convenient use as a map lamp at night or as a personal lamp for the driver and the front passenger.
- 🔀: Press the button to turn on the room lamp for the front and rear seats.
- 🕃: Press the button to turn on the mood lamp. Press again to turn the lamp off.
- A:: The front or rear room lamps come on when the front or rear doors are opened. When doors are unlocked by the smart key, the front and rear lamps come on for about 30 seconds as long as any door is not opened. The front and rear room lamps go out gradually after about 30 seconds when the door is closed. However, if the Start/Stop button is in the ON position or all doors are locked, the front and rear lamps turn off. If a door is opened with the Start/Stop button in the ACC or OFF position, the front and rear lamps stay on for about 5 minutes.

## **Rear lamps**

Room lamp

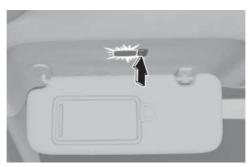


Personal lamp (if equipped)



 $\nabla$ ,  $\nabla$ : Press the button to turn on and off the rear room lamp.

# **Vanity mirror lamp**



Push the switch to turn the lamp on or off.

- ¬: The lamp turns on if this button is pressed.
- O: The lamp turns off if this button is pressed.

### Glove box lamp



The glove box lamp turns on when the glove box is opened.

If the glove box is not closed, the lamp turns off after 20 minutes.

#### NOTICE

Close the glove box after use to prevent unnecessary battery discharge.

## **Ambient light**



To set the brightness and color of the ambient light, Select **Settings** > **Vehicle** > **Lights** > **Ambient lighting** in the infotainment system.

- If the **Linked to drive mode** is selected, the ambient light color changes according to the selected drive mode.
- If you do not want to use ambient lighting, set **Brightness** to **0** in the infotainment system.

#### Information

- The infotainment system may change after software updates. For more information, refer to the manual provided in the infotainment system and the quick reference guide.
- The color of the mood lamp may seem different under some conditions depending on the color of the interior and the set mood color.

# Cargo area lamp



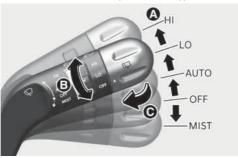
The cargo area lamp turns on when the tailgate is opened and off when the tailgate is closed.

## NOTICE \_\_\_\_

Close the tailgate after use to prevent unnecessary battery discharge.

# **Wipers and washers**

Front windshield wiper/washer - Type A



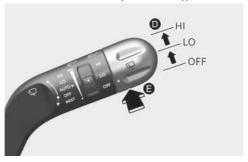
Front windshield wiper/washer - Type B



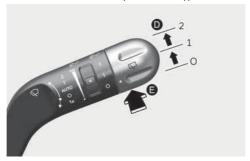
Front windshield wiper/washer - Type C



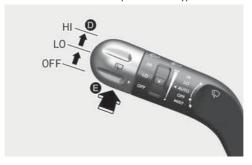
Rear windshield wiper/washer - Type A



Rear windshield wiper/washer - Type B



Rear windshield wiper/washer - Type C



# A. Wiper speed control

- HI/2: High wiper speed.
- LO/1: Low wiper speed.
- INT/---: Intermittent wipe.
- AUTO(if equipped): Auto control wipe.
- OFF/O: Off
- MIST/1x: Single wipe.
- B. Intermittent or Auto control wipe time adjustment

### 286 Convenience Features

C. Wash with brief wipes (front)

D. Rear wiper control

• **HI/2**: High wiper speed.

• LO/1: Low wiper speed.

OFF/O: Off

E. Wash with brief wipes (rear)

### Front windshield wipers

Operates as follows when the vehicle is turned on.

- HI/2: The wiper runs at a higher speed.
- LO/1: The wiper runs at a lower speed.
- INT/---: Wiper operates intermittently at the same wiping intervals. To vary the speed setting, turn the speed control knob.
- AUTO: The rain sensor located on the upper end of the windshield glass senses the amount of rainfall and controls the wiping cycle for the proper interval. The more it rains, the faster the wiper operates. When the rain stops, the wiper stops. To vary the speed setting, turn the speed control knob.
- OFF/O: Wipers are not in operation.
- MIST/1x: For a single wiping cycle, push the lever downward and release. The wipers operate continuously if the lever is held in this position.

#### Information

If there is heavy accumulation of snow or ice on the windshield, defrost the windshield for about 10 minutes, or until the snow and/or ice is removed to prevent damage to the wiper and washer system.

# AUTO (Automatic) control

# tif equipped



The rain sensor located on the upper end of the windshield glass senses the amount of rainfall and controls the interval of the wiping cycle.

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

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



### WARNING

To prevent personal injury:

- Do not touch the upper end of the windshield glass facing the rain sensor.
- Do not wipe the upper end of the windshield glass with a damp or wet cloth.
- Do not put pressure on the windshield glass.

#### NOTICE

- When washing the vehicle, set the wiper switch in the OFF(O) position to stop the auto wiper operation.
- Do not remove the sensor cover located on the upper end of the passenger side windshield glass.

#### Front windshield washers



In the OFF(O) position, pull the lever gently toward you to spray washer fluid on the windshield and to run the wipers 1-3 cycles. The spray and wiper operation continues until you release the lever. If the washer does not work, you may need to add washer fluid to the washer fluid reservoir.

# Recirculating air when washer fluid is used

When washer fluid is used, in order to reduce any objectionable scent of the washer fluid from entering the cabin, recirculation mode and air conditioning are automatically activated depending on the outside temperature. If you select fresh mode while the function is operating, the function resumes after a certain amount of time. It may not work in some conditions such as cold weather or vehicle OFF

For more information, refer to the "Climate control additional features" section in this chapter.



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 that could lead to a collision resulting in serious injury or death.

Always use appropriate washer fluids in the winter season or cold weather.

#### NOTICE

To prevent damage:

- Do not operate the washer when the fluid reservoir is empty or when the windshield is dry.
- Do not operate the wipers when the windshield is dry.
- Do not attempt to move the wipers manually.
- Use anti-freezing washer fluids in the winter season or cold weather.

### Rear windshield wipers and washers



The rear window wiper and washer switch is located at the end of the wiper and washer switch lever. Turn the switch to the desired position to operate the rear wiper and washer.

- HI/2: High wiper speed
- LO/1: Low wiper speed
- · OFF/O: Off

### Auto rear wiper

The rear wiper operates while the vehicle is in reverse with the front wiper on.

You can select the function by selecting **Settings** > **Vehicle** > **Convenience** > **Auto rear wiper (reverse)** in the infotainment system.

For more information, refer to the "Recirculating air when washer fluid is used" section in chapter 5.

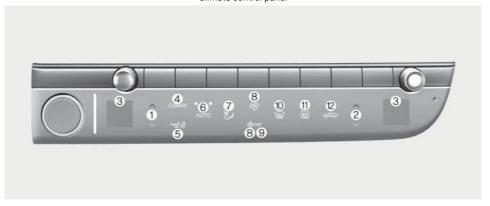
# **Rear windshield washers**



Push the lever away from you to spray rear washer fluid and to run the rear wipers 1-3 cycles. The spray and wiper operation continues until you release the lever.

# **Automatic climate control system**

Climate control panel



Infotainment System (Climate)



The climate control system buttons may differ depending on vehicle specification.

- 1. Driver's temperature control
- 2. Passenger's temperature control
- 3. Display the air flow direction
- 4. View climate infotainment screen
- 5. Warmer/Ventilation infotainment screen
- 6. AUTO (automatic control)
- 7. Mode selection
- 8. Fan speed control
- 9. OFF
- 10. Front windshield defroster
- 11. Rear window defroster

- 12. Air intake control
- 13. Ambient temperature display
- 14. DRIVER ONLY
- 15. A/C (air conditioning)
- 16. SYNC

#### Information

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

#### Climate

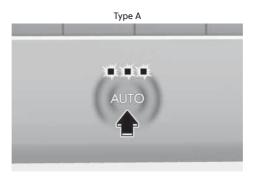


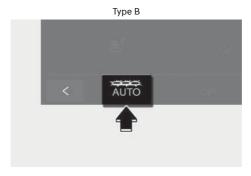
Press CLIMATE button to view the climate information in the infotainment screen.

## Automatic heating and air conditioning

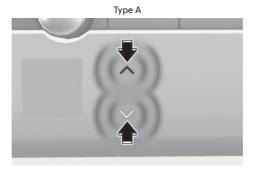
The Automatic Climate Control System is controlled by setting the desired temperature.

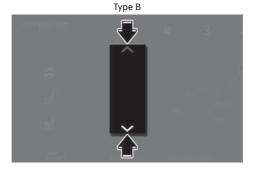
- 1 With the vehicle ON, press the AUTO button. The modes, fan speeds, air intake, and air conditioning are controlled automatically by the temperature setting.
  - You can control the fan speed in three stages by pressing the AUTO button during automatic operation.
  - HIGH: Provides rapid air conditioning and heating with the maximum fan speed setting range.
  - MEDIUM: Provides air conditioning and heating with the mid-level fan speed setting
  - LOW: Fan speed is set to the lowest setting range.





2 Press the temperature control button to set the desired temperature. If the temperature is set to the lowest setting, the air conditioning system operates continuously. After the interior has cooled sufficiently, adjust the button to a higher temperature set point whenever possible.





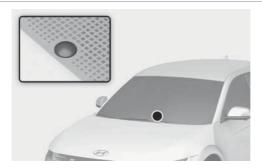
To turn off the automatic operation, select any button of the following:

- · Fan speed control
- A/C (Air conditioning)
- · Mode selection
- · Front windshield defroster

The selected function is controlled manually while other functions operate automatically.

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

#### NOTICE



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

# Manual heating and air conditioning

1 With the vehicle ON, set the mode selection button to the desired position.

### Information

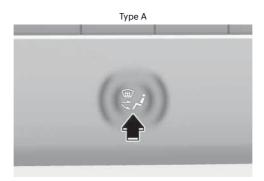
For improving the effectiveness of heating and cooling, select:

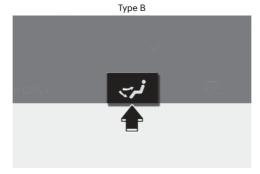
- Heating: ہے
- Cooling: -ہے

### 294 Convenience Features

- 2 Set the temperature control to the desired temperature.
- 3 Set the air intake control to the outside (fresh) air position.
- 4 Set the fan speed control to the desired speed.
- 5 If air conditioning is desired, turn on the air conditioning system.
- 6 Press the AUTO button to convert to full automatic control of the system.

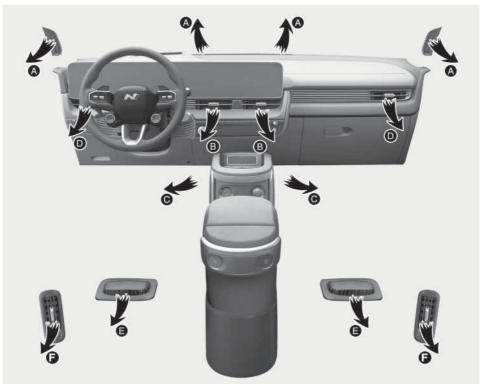
### Mode selection



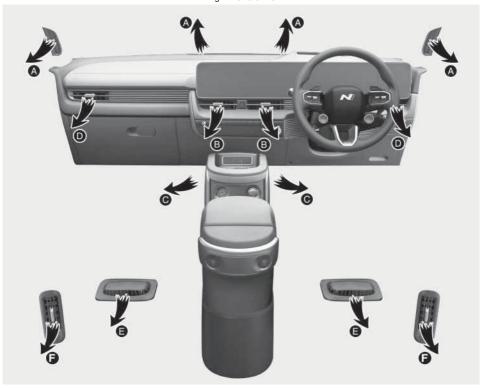


The mode selection button controls the direction of the air flow through the ventilation system.

Left-hand drive



# Right-hand drive



Symbol	Operation	Direction
أبرت	Air flow is directed toward the upper body and face. Additionally, each outlet can be controlled to direct the air discharged from the outlet.	B, D, F
₹ <b>,</b>	Air flow is directed toward the face and the floor.	B, C, D, E, F
	Air flow is directed toward the face, the floor and the windshield.	A, B, C, D, E, F
i	Most of the air flow is directed to the floor, with a small amount of the air being directed to the windshield and side window defrosters.	A, C, D, E

Symbol	Operation	Direction
	Most of the air flow is directed to the floor and the windshield with a small amount directed to the side window defrosters.	A, C, D, E
<b>W</b>	Most of the air flow is directed to the windshield with a small amount of air directed to the side window defrosters.	A, D

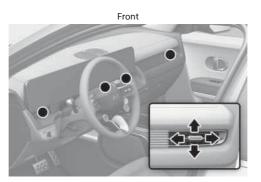
Front windshield defroster [A], [D]

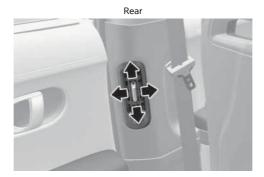


Press the front windshield defroster button (indicator light ON) to turn on the front windshield defroster. If the windshield defogging is set, outside (fresh) mode is automatically selected and the air conditioning turns on according to the detected ambient temperature.

Press the front windshield defroster button once more (indicator light OFF) to turn the function off. Each climate control setting reverts to the setting prior to selecting the front windshield defrost.

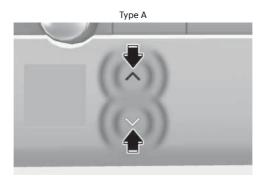
### Instrument panel vents

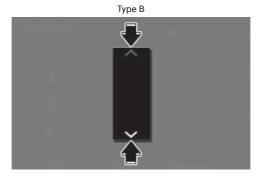




- The instrument panel vent air flow can be directed up/down or left/right using the vent adjustment lever.
- The air flow can be closed when the vent adjustment lever is pushed to the ⊗ position.

# Temperature control





Press the  $\wedge$  button to increase the temperature. Press the  $\checkmark$  button to decrease the temperature.

Temperature conversion ( ${}^{\circ}C \leftrightarrow {}^{\circ}F$ )

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

- Press the A/C button for more than 3 seconds, and then within 5 seconds push up the mode selection button for more than 3 seconds.
- Select Settings > General > Unit > Temperature unit > °C/°F in the infotainment system.

## Driver only



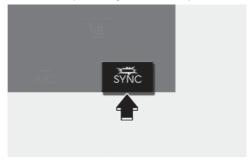
If you press the **DRIVER ONLY** button (indicator light ON), most of the air flow is directed toward the driver's seat.

#### Information

Some of the airflow may be directed to other seating position to keep indoor air pleasant while using **DRIVER ONLY**.

When using the front windshield defroster, the air flow on the both sides of windshield will continue to operate regardless of the activation of **DRIVER ONLY**.

# SYNC (Adjusting the driver and passenger side temperature equally)



Adjusting the temperature, air flow direction, and fan speed equally Press the **SYNC** button (indicator light ON) to adjust the driver and passenger side temperature, air flow direction, and fan speed equally.

### Adjusting the temperature individually

Press **SYNC** button (indicator light OFF) again to adjust the driver and passenger side temperature individually.

### Air intake control

#### Recirculation mode



With the recirculated air selected, air from the passenger compartment is drawn through the climate control system.

Outside (fresh) mode



With the outside (fresh) air selected, air enters the vehicle from outside and is drawn through the climate control system.

#### Information

Using the system in the fresh air position is recommended.

Prolonged operation of the heater in the recirculated air position (without air conditioning selected) can cause fogging of the windshield and side windows and the air within the passenger compartment will become stale.

In addition, prolonged use of the air conditioning with the recirculated air position selected will result in excessively dry air in the passenger compartment.

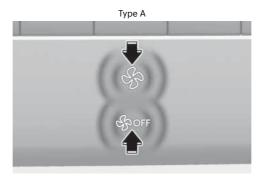


### WARNING

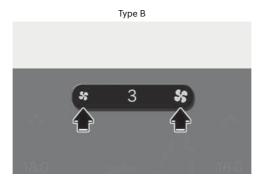
To prevent serious injury or death:

- Continued climate control system operation in the recirculated air position may allow humidity to increase inside the vehicle that could fog the windshield and the side windows and obscure visibility.
- Do not sleep in a vehicle with the air conditioning or heating system on.
- · Continued climate use of recirculated air may cause drowsiness or sleepiness, and loss of vehicle control. Set the air intake control to the outside (fresh) air position while driving.

# Fan speed control



Press the & button to increase fan speed and airflow. Press the &off button to decrease fan speed and airflow.

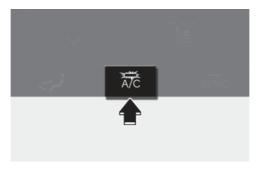


Press the s button to decrease fan speed and airflow. Press the s button to increase fan speed and airflow.

Information \_\_\_\_\_

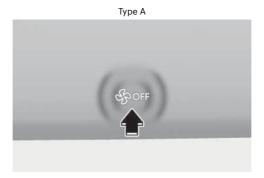
Operating the fan speed when the Start/Stop button is in the ON position may cause the battery to discharge.

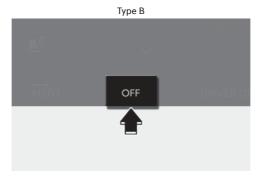
# Air conditioning



Press the A/C button to manually turn on the system on (indicator light ON) and off.

# OFF mode





Press the  $\mbox{\$}^{\mbox{\tiny off.}}$  or **OFF** button to turn the climate control system off. You can still operate the mode and air intake buttons as long as the Start/Stop button is in the ON position.

# **System operation**

# Cooling / Ventilation

1 Set the mode to the -,i position.

- 2 Set the air intake control to the outside (fresh) air position.
- 3 Set the temperature control to the desired position.
- 4 Set the fan speed control to the desired speed.

## Heating

- 1 Set the mode to the position.
- 2 Set the air intake control to the outside (fresh) air position.
- 3 Set the temperature control to the desired position.
- 4 Set the fan speed control to the desired speed.
- 5 If desired, turn the air conditioning ON with the temperature set high in order to dehumidify the air before it enters into the cabin.

If the windshield fogs up, set the mode to mposition.

#### **Operation Tips**

- To keep dust or unpleasant fumes from entering the vehicle through the ventilation system, temporarily set the air intake control to the recirculated air position. Be sure to return the control to the fresh air position when the irritation has passed to keep fresh air in the vehicle. This can help keep the driver alert and comfortable.
- To help prevent interior fog on the windshield, set the air intake control to the fresh air position and the fan speed to the desired position, turn on the air conditioning system, and adjust the temperature control to the desired temperature.

# Air conditioning

Your HYUNDAI vehicle air conditioning system is filled with R-134a or R-1234yf refrigerant.

- 1 Start the vehicle. Press the air conditioning button.
- 2 Set the mode to the -,i position.
- 3 Set the air intake control to outside air or recirculated air position.
- 4 Adjust the fan speed control and temperature control as desired.

When maximum cooling is desired, set the temperature control to the lowest position, then set the fan speed control to the highest setting.

Air conditioning system operation tips

- If the vehicle has been parked in direct sunlight during hot weather, open the windows for a short time to let the hot air inside the vehicle escape.
- After sufficient cooling has been achieved, switch back from recirculated air position to the fresh outside air position.
- To help reduce moisture inside of the windows on rainy or humid days, decrease the humidity inside the vehicle by operating the air conditioning system with the windows closed.
- Use the air conditioning system every month only for a few minutes to ensure maximum system performance.
- If you operate air conditioner excessively, the difference between the temperature
  of the outside air and that of the windshield may cause the outer surface of the
  windshield to fog up, causing loss of visibility. In this case, set the mode selection to
  the -> position and fan speed control to the lowest speed.

## **System maintenance**

#### Cabin air filter

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.

We recommend that the cabin air filter be replaced by an authorized HYUNDAI dealer according to the maintenance schedule. If the vehicle is being driven in severe conditions such as dusty or rough roads and/or if transporting pets or occupants smoke inside the vehicle, then more frequent cabin air filter inspections and changes are required.

#### Information

- Replace the filter according to the Maintenance Schedule. If the vehicle is being driven
  in severe conditions such as dusty, rough roads, more frequent climate control air filter
  inspections and changes are required.
- When the air flow rate suddenly decreases, we recommend that your vehicle be inspected by an authorized HYUNDAI dealer.

# Checking the amount of air conditioner refrigerant and compressor lubricant

When the amount of refrigerant is low, the performance of the air conditioning is reduced. Overfilling also reduces the performance of the air conditioning system.

Therefore, if abnormal operation is found, we recommend that the system be inspected by an authorized HYUNDAI dealer.

### NOTICE

It is important that the correct type and amount of oil and refrigerant is used. Otherwise, damage to the compressor and abnormal system operation may occur. To prevent damage, the air conditioning system in your vehicle should only be serviced by trained and certified technicians.



## Vehicles equipped with R-1234yf



To prevent serious injury, have the air conditioning system be serviced by only trained and certified technicians. R-1234yf is flammable and operated at high pressure.

Reclaim all refrigerants with proper equipment. Venting refrigerants directly to the atmosphere is harmful to individuals and environment.

### Vehicles equipped with R-134a



To prevent serious injury, have the air conditioning system be serviced by only trained and certified technicians. R-134a is operated at high pressure.

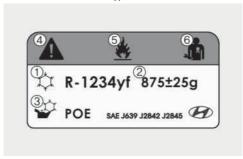
Reclaim all refrigerants with proper equipment. Venting refrigerants directly to the atmosphere is harmful to individuals and environment.

## Air conditioning refrigerant label

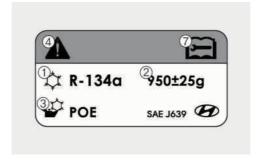


You can find out which air conditioning refrigerant is applied to your vehicle on the label located inside of the hood.

Type A



Туре В



Each symbol and specification on the air conditioning refrigerant label is represented as the following:

- 1. Classification of refrigerant
- 2. Amount of refrigerant
- 3. Classification of compressor lubricant
- 4. Caution
- 5. Flammable refrigerant
- 6. To require registered technician to service air conditioning system
- 7. Service manual

# Windshield defrosting and defogging



### WARNING

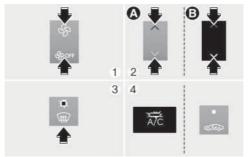
Do not use the defrost level mosition during cooling operation in extremely humid weather. The outer surface of the windshield may fog and reduce visibility, causing a collision that results in serious injury or death.

Set the mode selection button to the face level - i position and lower the fan speed.

- For maximum defrost performance, set the temperature control switch to the highest temperature setting and the fan speed control to the highest setting.
- If warm air to the floor is desired while defrosting or defogging, select the floor defrost position.
- · Before driving, clear all snow and ice from the windshield, rear window, rearview mirrors, and all side windows.
- Clear all snow and ice from the hood and air inlet to improve heater and defroster efficiency and to reduce the probability of fogging up the inside of the windshield.

# **Automatic climate control system**

## To defog inside windshield



- [A] Climate control panel
- [B] Infotainment System (Climate)
- 1. Select any fan speed. Set the fan speed to the highest position for quick defogging.
- 2. Select the desired temperature.
- 3. Press the defroster button (\mathbb{m}).
- 4. The outside (fresh) air is selected automatically. The air conditioning automatically operates. If the air conditioning, outside (fresh) air position are not selected automatically, adjust the corresponding switch.

#### To defrost outside windshield



- [A] Climate control panel
- [B] Infotainment System (Climate)
- 1. Set the fan speed to the highest position.
- 2. Set the temperature to the hottest position.
- 3. Press the defroster button (\(\pi\)).
- 4. The air conditioning turns on according to the detected ambient temperature and the outside (fresh) air position is selected automatically.

## **Defogging logic**

To reduce the probability of fogging up the inside of the windshield, the air intake or air conditioning are controlled automatically according to certain conditions. To cancel or reset the defogging logic, do the following.

- 1 Press the Start/Stop button to the ON position.
- 2 Press the defroster button () or () for more than 3 seconds.

The air intake control button indicator blinks 3 times to indicate that the defogging logic has been disabled. Repeat the steps again to re-enable the defogging logic.

If the battery has been discharged or disconnected, it resets to the defog logic status

# Windshield defrosting (Heater)

#### Rear window defroster

#### NOTICE

Never use sharp instruments or window cleaners containing abrasives to clean the window to prevent damage to the rear window defroster.

The defroster heats the window to remove frost, fog and thin ice from the interior and exterior of the rear window, while the vehicle is running.

• To activate it, press the rear window defroster button located in the center control panel. The indicator on the rear window defroster button illuminates when the defroster is ON



• To turn if off, 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 about 20 minutes or when the Start/Stop button is in the OFF position.

### Side view mirror defroster

The side view mirror defrosters operate when you turn on the rear window defroster.

## Climate control additional features

Information

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

### Air conditioner auto-drying

The Air conditioner auto-drying feature dries the moisture in the air conditioner and reduces air conditioner odor. The blower motor automatically operates after 30 minutes the vehicle is turned off.

The Air conditioner auto-drying feature can be turned on and off by selecting Settings > Vehicle > Climate > Climate features > Air conditioner auto-drying.

If the operating condition is satisfied after setting the feature, the operating condition appears on the infotainment system and the blower motor automatically operates.

When the Air conditioner auto-drying feature is activated, the air conditioner sets the fan speed to the third level, selects outside (fresh) position, and directs the air flow to the floor.

## Operating conditions

The Air conditioner auto-drying feature operates under the following conditions:

- The vehicle is turned off after operating the air conditioner for a certain period.
- The battery level is sufficient and the outside temperature is above a certain level.

## Non-operating conditions

The Air conditioner auto-drying feature stops operating under the following conditions:

- The Air conditioner auto-drying feature has operated for 10 minutes.
- The Start/Stop button is pressed, or the vehicle is ON.
- The climate control system is operated remotely.

Information

The Air conditioner auto-drying feature reduces air conditioner odors but may not remove all odors.

# Auto defogging system



The Auto defogging reduces the likelihood of fogging up the inside of the windshield by automatically sensing the moisture on inside of the windshield.

The Auto defogging system operates when the heater or air conditioning is on.

#### Information

The Auto defogging system may not operate normally, when the outside temperature is below -10 °C (14 °F).

When the Auto defogging system operates, the mindicator illuminates.

If high amount of humidity is detected in the vehicle, the Auto defogging system is enabled.

The following steps are performed automatically:

Step 1. Air conditioning turns on and outside (fresh) position is selected.

Step 2. Defrost level is selected.

Step 3. Fan speed is set to the highest level.

If the air conditioning is off or recirculated air is manually selected while Auto defogging system is ON, the Auto defogging system indicator blinks to signal that manual operation has been canceled.

## Turning the Auto defogging system on or off

#### Climate control system

Press the front windshield defroster button for 3 seconds when the Start/Stop button is in the ON position. When the Auto defogging system is turned off, the ADSOFF symbol blinks 3 times and appears on the climate control information screen.

When the Auto defogging system is turned on, the ADSOFF symbol blinks 6 times without a signal.

#### **Infotainment system**

Auto defogging system can be turned on and off by selecting Settings > Vehicle > Climate > **Defog/Defrost options** > **Auto defog** in the infotainment system.

#### Information

- Do not select recirculated air while the Auto defogging system is operating.
- When Auto defogging system is operating, fan speed adjustment, temperature adjustment, and air intake control selection are all disabled.

### NOTICE

Do not remove the sensor cover located on the top of the windshield glass. Damage may not be covered by your vehicle warranty.

## **Auto dehumidify**

# tif equipped

To increase cabin air quality and reduce windshield misting, recirculation mode switches off automatically after about 5 to 30 minutes, depending on the outside temperature, and the air intake changes to the outside (fresh) air position.

# Turning Auto dehumidify on or off

### Climate control system

To turn the Auto dehumidify feature on or off, select Face level (--,i) mode and press the air intake control (So) button at least 5 times within 3 seconds while pressing the A/C button. When Auto dehumidify is turned on, the air intake control button indicator blinks 6 times. When turned off, the indicator blinks 3 times.

#### Infotainment system

Auto dehumidify can be turned on and off by selecting Settings > Vehicle > Climate > **Automatic ventilation** > **Auto dehumidify** in the infotainment system.

# Recirculating air when washer fluid is used

## tif equipped

Recirculation mode automatically activates to reduce the scent of the washer fluid entering the cabin when the windshield washer is used.

When it is shifted to the recirculation mode, the unpleasant scent may flow into the vehicle.

However, in cold weather to prevent the windshield from fogging up, the recirculation mode may not be selected.

# Turning Activation on a washer fluid use on or off

#### Climate control system

To turn the Activate on washer fluid use feature on or off, select Floor level (, i) mode, and then press the air intake control (S) button 5 times within 3 seconds.

When Activate on washer fluid use is turned on, the air intake control button indicator blinks 6 times. When turned off, the indicator blinks 3 times.

#### Infotainment system

Activate on washer fluid use can be turned on and off by selecting Settings > Vehicle > Climate > Internal air circulation > Activation on washer fluid use in the infotainment system.

# Recirculating air when entering a tunnel

# tif equipped

To prevent the inflow of polluted air into the vehicle when passing through a tunnel, the windows and climate control system are operated using the navigation map information and vehicle speed as follows:

To use this feature, it can be enabled from the infotainment system. Select: Settings > Vehicle > Climate > Internal air circulation

 Activation upon Entering a Tunnel: The vehicle's windows automatically close, and the climate control system switches to recirculation mode for about 7 seconds before entering a tunnel.

The windows open to the previous position after passing through the tunnel. If the power window switch is operated before the windows open, the windows do not return to the previous position.

## Operating conditions

- The climate control system's fresh mode is selected.
- The window(s) are open.

The windows close automatically only when your vehicle is applied with the automatic up/down window feature for all seats.

### Information

- The activation time for the feature may differ because of the time gap between the GPS and vehicle speed.
- The feature activates until you have passed through continuous tunnels.
- When entering a tunnel, recirculation mode may cause fogging of the windshield. Use the front windshield defroster button.
- The feature does not operate in short tunnels.
- The feature may not activate if the GPS is not working properly.
- The infotainment system may change after software updates. For more information, refer to the manual provided in the infotainment system and the quick reference quide.



### WARNING

Be careful not to get any body parts caught when the windows are closing.

# Storage compartment



# MARNING .

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.



# MARNING.

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 collision, 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



To open:

Press the button.

### **Sliding armrest**



To move the armrest forward:

Grab the front portion of the armrest then pull it forward.

To move the armrest rearward:

Grab the front portion of the armrest then push the armrest rearward.

## **Glove box**



To open: Pull the lever (1).



# MARNING

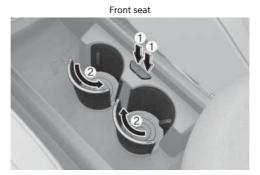
ALWAYS close the glove box door after use.

An open glove box door may cause serious injury to a passenger in a collision, even if the passenger is wearing a seat belt.

## Interior features

# **Cup holder**

Cups or small beverages cups can be placed in the cup holders.



Push the button (1). The cup supporter protrudes from the front console. Push in the cup supporter (2) after use.



Rear seat armrest

Pull the armrest down to use the cup holders.



# MARNING

- · Avoid abrupt starting and braking when the cup holder is used to prevent spilling your drink. If hot liquid spills, you may be burned. Such a burn to the driver may cause loss of vehicle control resulting in a collision.
- · Only use soft cups in the cup holders.

#### NOTICE

- Keep your drinks sealed while driving to prevent spilling. If liquid spills, it may get into the vehicle's electrical/electronic system and damage electrical/electronic parts.
- · When cleaning spilled liquids do not use hot air to blow out or dry the cup holder. This may damage the interior.
- Keep cans or bottles out of direct sun light and do not put them in a hot vehicle. Otherwise, they may explode.

#### Sunvisor



To use the sunvisor, pull it downward.

To use the sunvisor to block the sun from the side window, pull it rearward, release it from the bracket (1) and swing it to the side (2) toward the window.

To use the vanity mirror, pull down the sunvisor and slide the mirror cover (3).

Adjust the sunvisor forward or backward (4) as needed (if equipped). Use the ticket holder (5) to hold tickets.

Close the vanity mirror cover securely and return the sunvisor to its original position after use.



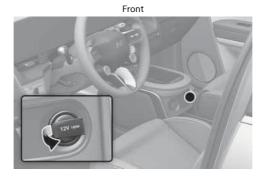
### MARNING

Do not block your view or the roadway when using the sunvisor.

### NOTICE

The tab (5) adjacent to the vanity mirror on the sunvisor can be used for toll road tickets or self parking tickets. Use caution when inserting tickets into the ticket holder to avoid damage. Refrain from putting several tickets in the ticket holder as this could also damage the retaining tab.

### **Power outlet**



Rear

The power outlet is designed to provide power for mobile phones or other devices designed to operate with vehicle electrical systems.

The devices should draw less than 180 W with the vehicle ON.



# ▲ WARNING .

Avoid electrical shocks. Do not place your fingers or foreign objects (pin, etc.) into a power outlet or touch the power outlet with a wet hand.

### **NOTICE**

To prevent damage to the power outlets:

- · Use the power outlet only when the vehicle is running and remove the accessory plug after use. Using the accessory plug for an extended period of time with the vehicle off could cause the battery to discharge.
- Only use 12 V electric accessories that 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 used.
- Some electronic devices may cause electronic interference when plugged into a vehicle's power outlet.
- Push the plug in as far as it goes. The plug may overheat and the fuse may open.
- Only connect devices with reverse current protection or the current from the device battery may cause the vehicle's electrical/electronic system to malfunction.

### **USB** charger



Front







The USB charger is designed to recharge batteries of small size electronic devices using a USB cable.

Electronic devices can be charged when the vehicle is running.

#### Information

- The battery charging state may be monitored on the electronic device.
- Disconnect the USB cable from the USB port after use.
- A smartphone or a tablet PC may get warmer during the recharging process. It does not indicate any malfunction with the charging system.
- · A smartphone or a tablet PC that does not use a USB cable to charge should be charged using its own charger.
- · Do not attempt to use the charging terminal either to turn on an audio or to play media with the infotainment system.
- Charging may not be possible when using a Type-C to A converter sold by a mobile phone manufacturer or commercially available.

#### NOTICE

- Use the USB charger when the vehicle is running. Using the USB charger for prolonged periods of time with the Start/Stop button in the ON position (vehicle off) may cause the battery to discharge.
- To prevent damage to the USB charger:
  - Do not insert foreign objects or spill liquid into the outlet. The USB charging terminal may be damaged.
  - Do not use devices with working current exceeding 3,000 mA (3.0 A).
- When charging an electrical device by using an USB converting adapter (C to A type), use a genuine adapter specified for your vehicle. A commonly used adapter is not equipped with any measures to prevent over current and maintain stability. Using an unspecified cable may damage the vehicle's USB charger or the connected devices. Contact an authorized HYUNDAI dealer for more information on accessories for HYUNDAI vehicles.
- The use of non-genuine parts may damage the USB port and infotainment system. Damage cannot be covered by your vehicle warranty.

### Cluster fascia side panel



The cluster fascia side panel is a pad to attach light items such as parking tickets, receipts, etc., using its magnetic surface.

#### NOTICE

Do not attach heavy items such as cellular phones. Dropping while driving, the items can be damaged.



#### MARNING.

Do not attach the cellular phones and heavy or sharp items to the cluster fascia side panel for safety reason.

This could result in loss of control, and an accident causing death, serious injury, or property damage.

#### Wireless smartphone charging system

### tif equipped



- [A] Indicator light
- [B] Charging pad

### Charging your smartphone

The wireless smartphone charging system charges only the Qi-enabled smartphones ( $\phi$ ). Visit your smartphone manufacturer's website to check whether your smartphone supports the Qi technology.

The wireless charging process starts when you put a Qi-enabled smartphone on the wireless charging with the screen facing up.

- 1 The wireless smartphone charger is available when all doors are closed, and when the Start/Stop button is in the ON or START position.
- 2 Turn on the wireless charging function in the infotainment system.
  - Select Settings > Vehicle > Convenience > Wireless charging system for mobile devices
- 3 Place the smartphone on the center of the wireless charging pad. The indicator light is orange when the smartphone is charging and turns blue when phone charging is complete.

#### Information

- Remove other items, including the smart key from the wireless charging pad.
- · For flip type smartphones, when using wireless charging, place the smartphone folded with the device's back placed on the center of the wireless charging unit.

If your smartphone is not charging:

- Move the smartphone on the charging pad.
- · Make sure the indicator light is orange.

The indicator light blinks orange for 10 seconds if there is a malfunction in the wireless charging system.

The system warns you with a message on the cluster display if the smartphone is still on the wireless charging pad after the vehicle is turned OFF and the front door is opened.

#### NOTICE

- The wireless smartphone charging system may not support certain smartphones, that
  do not meet for the Qi specification (φ).
- When placing your smartphone on the charging pad, position the phone in the middle
  of the mat for optimal charging performance. If your smartphone is off to the side, the
  charging rate may be less and in some cases the smartphone may experience higher
  heat conduction.
- Wireless charging may stop temporarily when the smart key is used, either when starting the vehicle or locking/unlocking the doors, etc.
- When charging certain smartphones, the charging indicator may not change to blue when the smartphone is fully charged.
- The wireless charging process may temporarily stop, when temperature abnormally increases inside the wireless smartphone charging system. The wireless charging process does not restart, until the temperature falls.
- The wireless charging process may temporarily stop when there is any metallic item, such as a coin, between the wireless smartphone charging system and smartphone.
- For some manufacturer's smart phones, the system may not warn you even though
  the smart phone is left on the wireless charging unit. This is due to the particular
  characteristic of the smart phone and not a malfunction of the wireless charging.
- When using a smartphone application, such as Android Auto, while charging, the
  charging process may be delayed or interrupted due to the smartphone overheating.
  This issue is not related to the wireless charging system but rather caused by the
  smartphone's self-heating. Therefore, disconnect the smartphone from the charging
  pad.
- If the smartphone has a thick case, it may not charge.
- Some magnetic items such as credit cards, phone cards, or transit cards may be damaged if left with the smartphone during the charging process.
- If the smartphone is not completely contacting the charging pad, wireless charging may not operate properly.
- If the Start/Stop button is in the OFF position, the charging also stops.
- When any smartphone without a wireless charging function or a metallic object is
  placed on the charging pad, a small noise may sound. This small sound because the
  vehicle discerns compatibility of the object placed on the charging pad. It does not
  affect your vehicle or the smartphone.
- Some smartphones may not be able to charge depending on the internal structure of
  the smartphone. If this occurs, try charging the smartphone by moving it to the left
  or right side of the wireless charging pad. However, for some fold-able smartphones
  that have magnets inside the smartphone, try charging the smartphone while holding it
  close to the left side of the wireless charging pad.

#### NOTICE

Some magnetic items like credit cards, phone cards or rail tickets may be damaged if left with the smartphone during the charging process.

### Vehicle to load (V2L)



V2L(Vehicle to Load) is installed at the central rear seat bottom. V2L is a convenient feature which provides enough electricity to use diverse household electrical appliances in the vehicle.

For more information, refer to the "Using V2L function" section in chapter 1.

#### Clock

The clock can be set in the infotainment system.



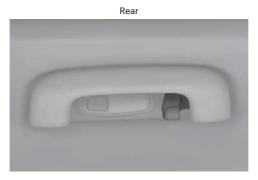
MARNING .

Do not attempt to adjust the clock while driving.

#### Information

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

#### Coat hook



This hook is not designed to hold large or heavy items.

#### WARNING

Only hang soft clothing without heavy, sharp or breakable objects in the clothes pockets. In a collision or when the curtain airbag is inflated, the objects could move and cause serious injury.



#### Floor mat anchor(s)

ALWAYS use the floor mat anchors to attach the front floor mats to the vehicle. The anchors on the front floor carpet keep the floor mats from sliding forward.



#### MARNING

To prevent serious injury or death from a floor mat interfering with the brake or accelerator pedals:

- Remove any protective film on the carpet before installing a floor mat.
- Check floor mats are securely attached to the vehicle's floor mat anchors before drivina.
- · Do not use ANY floor mat that cannot be firmly attached to the vehicle's floor mat anchors.
- Do not stack floor mats on top of one another (e.g. all-weather rubber mat on top of a carpeted floor mat). Only a single floor mat must be installed in each position.

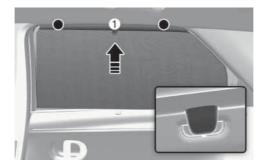


#### WARNING

To avoid any interference with pedal operation, HYUNDAI recommends that the HYUNDAI floor mat designed for use in your vehicle be installed.

#### Rear side window sunshades

Use the rear side window sunshade to block external light coming through the rear window glass.



- 1 Lift the sunshade by the handle (1).
- 2 Hang the sunshade on both sides of the hook. If the sunshade is hung on one side of the hook, the sunshade may be wrinkled.

#### NOTICE

- Do not hang any other object except the rear side window sunshade on the hooks.
- If you pull the rear side window sunshade or apply force to return the sunshade to its original position after use, you may find the sunshade wrinkled or out of shape. To lower the sunshade, be sure to put the handle downward and slowly return the sunshade to its original position.
- Sunshades may not work properly if foreign objects (coins, toys, cookies, etc.) are stuck in the door. Be careful that the foreign objects do not get into the door.

### Cargo net holder

tif equipped



To keep items from shifting in the cargo area, use the 4 holders located in the cargo area side trim to attach the cargo net.

Make sure the cargo net is securely attached to the holders in the cargo board.

If necessary, we recommend that you contact an authorized HYUNDAI dealer to obtain a cargo net.



- Avoid eye injury. Do not overstretch the cargo net. Always keep your face and body out
  of the cargo net's recoil path. Do not use the cargo net when the strap has visible signs
  of wear or damage.
- Use the cargo net to keep only light items from shifting in the cargo area.

#### Cargo security screen

#### if equipped



Use the cargo security screen to cover items stored in the cargo area.

### Using the cargo security screen



- 1 Pull the cargo security screen towards the rear of the vehicle by the handle (1).
- 2 Insert the guide pin (2) into the guide (3).

#### Information

Pull out the cargo security screen with the handle in the center to prevent the guide pin from falling out of the guide.

When the cargo security screen is not in use:

- 1 Pull the cargo security screen rearward and down to release it from the guides.
- 2 The cargo security screen will automatically slide back in.

#### Information

The cargo security screen may not automatically slide back in if the cargo security screen is not fully pulled out. Pull the cargo screen out all the way and then slowly allow the screen to retract back in.

#### NOTICE

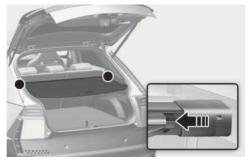
- Since the cargo security screen may be damaged or malformed, do not put luggage on it when it is used.
- The cargo security screen and rear seat may be damaged when the rear seat slides forward/rearward or when the rear seatback is reclined.
- Note that if you release the handle while pulling the luggage screen handle all the way. the screen may wind up quickly and be damaged.



#### MARNING

- Do not place objects on the cargo security screen. Such objects may be thrown about inside the vehicle and possibly injure vehicle occupants during an accident or when braking.
- Never allow anyone to ride in the luggage compartment. It is designed for luggage only.
- Maintain the balance of the vehicle and locate the weight as forward as possible.

### Removing the cargo security screen



- 1 Push one side of the cargo screen inward to compress the spring and release the screen from the vehicle.
- 2 While the spring is compressed, pull out the cargo security screen.

### Infotainment system

#### NOTICE

- Do not install an aftermarket HID headlight. Your vehicle's audio and electronic devices may not function properly.
- Prevent chemicals such as perfume, cosmetic oil, sun cream, hand cleaner, and air freshener from contacting the interior parts because they may cause damage or discoloration.

#### **USB Port**



Press the USB port selection button while the vehicle is running. Press the upper portion of the button (1) to charge an electronic device. Press the lower portion of the button (2) to charge and listen to music with a media storage device. The USB port can be used after either indicator light turns on.

- You can use an USB cable to connect audio devices to the vehicle USB port.
- After connecting a media storage device such as a MP3 or USB to the USB port, you can listen to music through the vehicle's speakers or play it on the infotainment system.
- · Small electronic devices can be charged.

#### Information

- Some devices may not be charged through USB port.
- · When using a portable audio device connected to the power outlet, noise may occur during playback. If this happens, disconnect the USB cable and use the portable audio device's power source.

#### NOTICE

- When connecting a Type-A USB or a memory device to a vehicle, use a genuine converting adapter (C to A type) specified for your vehicle. A commonly used adapter is not equipped with any measures to reduce noise, prevent overcurrent and maintain stability. Connecting an unspecified cable may damage the vehicle's USB port or the connected devices. We recommend that you contact an authorized HYUNDAI dealer for more information on accessories for HYUNDAI vehicles.
- The use of non-genuine parts may damage the USB port and infotainment system. Damage cannot be covered by your vehicle warranty.

#### **Antenna**



The shark fin antenna receives transmitted data (for example, AM/FM, SXM).

### Steering wheel remote controls



#### NOTICE

Do not operate multiple audio remote control buttons simultaneously.

### SEEK/PRESET (1)

If the SEEK/PRESET switch is pushed up or down and held for 0.8 seconds or more, it functions in the following modes:

RADIO mode

It functions as the AUTO SEEK select button. It seeks until you release the button.

· MEDIA mode

It functions as the FF/RW button.

If the SEEK/PRESET switch is pushed up or down, it functions in the following modes:

RADIO mode

It functions as the PRESET STATION UP/DOWN button.

MEDIA mode

It functions as the TRACK UP/DOWN button.

#### VOLUME (2)

Push the lever up or down to adjust the volume.

### MODE (3)

Press the MODE button to toggle through the selected media sources.

If no media sources were selected yet, then the selection menu will be shown.

Once media sources are selected, the selection menu can be accessed through press and hold of the MODE button.

### MUTE (4)

Press the VOLUME lever to mute or activate the sound.

### Infotainment system



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

### **Voice recognition**



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

### Bluetooth® wireless technology





- 1. Call/Answer/Call end button
- 2. Microphone

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



### **CAUTION**

To prevent driver distractions, minimize your use of these features while driving. Distraction may cause a collision, resulting in serious injury or death.

# 6. Driving your vehicle

### **Before driving**

### Before entering the vehicle

- Be sure all windows, side view mirror(s), and outside lights are clean and unobstructed.
- · Remove frost, snow, or ice.
- · Visually check the tires for uneven wear and damage.
- · Check under the vehicle for any sign of leaks.
- Be sure there are no obstacles behind you if you intend to back up.

#### **Before starting**

- Make sure the hood, the tailgate, and the doors are securely closed and locked.
- Adjust the position of the seat and steering wheel.
- Adjust the inside and side view mirrors.
- · Verify all the lights work.
- Fasten your seat belt. Check that all passengers have fastened their seat belts.
- · Check the gauges and indicators in the instrument panel and the messages on the instrument cluster when the vehicle is in the ON position.
- Check that any items you are carrying are stored properly or fastened down securely.



#### ▲ WARNING

To reduce the risk of SERIOUS INJURY or DEATH, take the following precautions:

- · ALWAYS wear your seat belt. All passengers must be properly belted whenever the vehicle is moving. For more information, refer to the "Seat belts" section in chapter 3.
- Always drive defensively. Assume other drivers or pedestrians may be careless and make mistakes.
- Stay focused on the task of driving. Driver distraction can cause accidents.
- Leave plenty of space between you and the vehicle in front of you.

## 🥼 WARNING

NEVER drink or take drugs and drive.

Drinking or taking drugs and driving is dangerous and may result in an accident and SERIOUS INJURY or DEATH.

Drunk driving is the number one contributor to the highway death toll each year. Even a small amount of alcohol will affect your reflexes, perceptions and judgment. Just one drink can reduce your ability to respond to changing conditions and emergencies and your reaction time gets worse with each additional drink.

Driving while under the influence of drugs is as dangerous or more dangerous than driving under the influence of alcohol.

You are much more likely to have a serious accident if you drink or take drugs and drive. If you are drinking or taking drugs, do not drive. Do not ride with a driver who has been drinking or taking drugs. Choose a designated driver or call a taxi.

### Start/Stop button



Whenever the front door is opened, the Start/Stop button illuminates and goes off for a few seconds after the door is closed.



#### MARNING

To turn the vehicle off in an emergency:

Press and hold the Start/Stop button for more than 2 seconds OR Rapidly press and release the Start/Stop button 3 times (within 3 seconds).

If the vehicle is still moving, you can restart the vehicle without depressing the brake pedal by pressing the Start/Stop button with the gear in the N (Neutral) position.



### MARNING

- NEVER press the Start/Stop button while the vehicle is in motion except in an emergency. This results in the vehicle turning off and loss of power assist for the steering and brake systems. This may lead to loss of directional control and braking function, which could cause an accident.
- Before leaving the driver's seat, always make sure the gear is in the P (Park) position, set the parking brake, press the Start/Stop button to the OFF position, and take the Smart Key with you. Unexpected vehicle movement may occur if these precautions are not followed.
- NEVER reach through the steering wheel for the Start/Stop button or any other control while the vehicle is in motion. The presence of your hand or arm in this area may cause a loss of vehicle control resulting in an accident.

### Start/Stop button positions

Button Position	Action	Notes	
OFF  To turn off the vehicle, press the Start/ Stop button with the vehicle in P (Park). If the Start/Stop button is pressed with the vehicle in D (Drive), R (Reverse) or N			

Button Position	Action	Notes	
	(Neutral), the gear automatically shifts to P (Park).		
ACC	Press the Start/Stop button when the button is in the OFF position without depressing the brake pedal.  Some of the electrical accessories are usable.  If you leave the Start/Stop but in the ACC position for more one hour, the battery power to automatically to prevent the from discharging.		
ON	Press the Start/Stop button while it is in the ACC position without depressing the brake pedal.  The warning lights can be checked before the vehicle is started.	Do not leave the Start/Stop button in the ON position when the vehicle is not running to prevent the battery from discharging.	
START	To start the vehicle, depress the brake pedal and press the Start/ Stop button with the gear shifted to the P (Park) position.	If you press the Start/Stop button without depressing the brake pedal, the vehicle does not start and the Start/ Stop button changes as follows: OFF > ACC > ON > OFF or ACC	

### **Information**

To prevent vehicle battery discharge, the Start/Stop button changes to the OFF position when the Start/Stop button is in the ACC or ON position with the gear in P (Park) for a certain period of time. When the function operates, the tail lights turns off. To use the tail lights again, turn the headlight switch located on the steering column to the OFF and ON position again.

### Starting the vehicle



### MARNING

- · Always wear appropriate shoes when operating your vehicle. Unsuitable shoes, such as high heels, ski boots, sandals, flipflops, etc., may interfere with your ability to use the brake and accelerator pedals.
- Do not start the vehicle with the accelerator pedal depressed. The vehicle can move which can lead to an accident.

#### Information

- The vehicle starts by pressing the Start/Stop button, only when the smart key is in the vehicle.
- Even if the smart key is in the vehicle, and when it is far away from the driver, the vehicle may not start.
- When the Start/Stop button is in the ACC or ON position, if any door is open, the system checks for the smart key. When the smart key is not in the vehicle, the indicator blinks and the warning message "**Key not in vehicle**" appears. When all doors are closed, the chime also sounds for a few seconds. Keep the smart key in the vehicle when in the ACC position or if the vehicle is in the ready mode (READY indicator ON).

### Starting the vehicle

- 1 Always carry the smart key with you.
- 2 Make sure the parking brake is applied.
- 3 Make sure the gear is in P (Park).
- 4 Depress the brake pedal.
- 5 Press the Start/Stop button. If the vehicle starts, the READY indicator comes on.

#### Information

- Always start the vehicle with your foot on the brake pedal. Do not depress the
  accelerator while starting the vehicle. Do not race the motor while warming it up.
- If ambient temperature is low, the indicator may remain illuminated longer than the normal amount of time.

#### NOTICE

To prevent damage to the vehicle:

- If the (READY) indicator turns off while you are moving, do not attempt to shift the gear to the P (Park) position.
  - If traffic and road conditions permit, you may put the gear in N (Neutral) while the vehicle is still moving and press the Start/Stop button in an attempt to restart the vehicle.
- Do not push or tow your vehicle to start the vehicle.

#### NOTICE

To prevent damage to the vehicle:

Do not press the Start/Stop button for more than 10 seconds except when the stop light fuse is blown.

When the stop light fuse is blown, you cannot normally start the vehicle. Replace the fuse with a new one. If you are not able to replace the fuse, you can start the vehicle by pressing and holding the Start/Stop button for 10 seconds with the Start/Stop button in the ACC position.

Pressing the brake pedal many times while READY indicator light is off will increase the possibility of discharging the 12 V battery.

For your safety always depress the brake pedal before starting the vehicle.

#### Information

Virtual Engine Sound System (VESS)

VESS generates virtual engine sound to make pedestrians to aware. VESS operates when the vehicle can be driven. When the gear is in P (Park), VESS does not work.



#### CAUTION

- Because the vehicle does not make the engine sound, pay attention to the surrounding environment and drive carefully.
- After parking or waiting for a traffic light, check around (children, obstacle, etc.) before departure.
- When reversing, check directly behind you before driving. Pedestrians may not be able to recognize vehicle sounds.

### Emergency starting



If the smart key battery is weak or the smart key does not work correctly, you can start the vehicle by pressing the Start/Stop button with the smart key in the direction of the picture above.

### Turning off the vehicle

- Stop the vehicle and depress the brake pedal fully.
- 2 Shift to P (Park).

### 340 Driving your vehicle

- 3 Press the Start/Stop button to the OFF position and apply the parking brake.
- 4 Make sure the READY indicator is off in the instrument cluster.



### **CAUTION**

If the READY indicator on the instrument cluster is still on, the vehicle is not turned off and can move when the gear is in any position except P (Park).

#### Remote start



You can start the vehicle using the Remote Start button of the smart key. To start the vehicle remotely:

- 1 Press the door lock button (1) within 10 m (32 ft.) from the vehicle.
- 2 Press the remote start (2) button for over 2 seconds within 4 seconds after locking the doors.
- 3 To turn off the remote start function, press the remote start (2) button once.
- The remote start (2) button may not operate if the smart key is not within 10 m (32 ft).
- The vehicle may not remotely start if the hood or tailgate is opened.
- The vehicle must be in P (Park) for the remote start function to start.
- The vehicle displays "Smart Key must be present to keep the vehicle running" if you get on the vehicle without a registered smart key.
- The vehicle turns off if you do not get in the vehicle within 10 minutes after remotely starting the vehicle.

### **Reduction gear**



[A] Rotary gear shift dial

[B] P button

#### **Reduction gear operation**

To change the gear, depress the brake pedal and rotate the rotary gear shift dial.



#### ▲ WARNING

To reduce the risk of serious injury or death:

- Always check the surrounding areas near your vehicle for people, especially children, before shifting a vehicle into D (Drive) or R (Reverse).
- Before leaving the driver's seat, always make sure the vehicle is shifted to the P (Park) position, then apply the parking brake, then press the Start/Stop button to the OFF position. Unexpected and sudden vehicle movement can occur if these precautions are not followed.

### Rotary shifter/ Rotary gear shift dial

P (Park)



Always come to a complete stop before shifting into P (Park).

To shift the gear to P (Park), press the P button while depressing the brake pedal.

If you turn the vehicle off in R (Reverse), N (Neutral) or D (Drive), the gear automatically shift to P (Park).



- Shifting into P (Park) while the vehicle is moving may cause you to lose control of the vehicle.
- When parking on an incline, shift the gear to P (Park), apply the parking brake, and turn the wheels toward the curb to prevent the vehicle from rolling downhill.
- Do not use the P (Park) position instead of the parking brake.

#### Information

For vehicles equipped with the Electronic Parking Brake (EPB), EPB applies automatically when the gear is shifted to P (Park).

#### R (Reverse)

Use this position to drive the vehicle rearward.



Use this position to drive the vehicle backward.

To shift the gear to R (Rear), rotate the rotary gear shift dial to R (Reverse) while depressing the brake pedal.

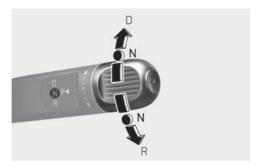
However, if the vehicle is moving, the gear may not automatically shift to P (Park) to prevent reduction gear damage.

The direction of the rotary gear shift dial is the same as that of the wheel.

#### NOTICE

- When the vehicle is stopped in R (Reverse) or D (Drive), if the driver's door is opened, the gear shifts to P (Park) automatically.
  - If the vehicle is moving in R (Reverse) or D (Drive) and the driver's door is opened and the driver's seat belt is unfastened, the gear may not shift to P (Park) automatically to prevent reduction gear damage.
- Always come to a complete stop before shifting into or out of R (Reverse) to prevent damaging the reduction gear.

#### N (Neutral)



To shift the gear to N (Neutral), rotate the rotary gear shift dial to N (Neutral) while depressing the brake pedal.

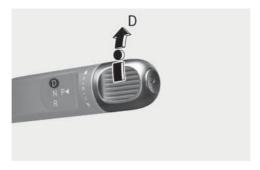
Always depress the brake pedal when you are shifting from N (Neutral) to another gear. If you turn the vehicle off in N (Neutral), the gear automatically shifts to P (Park).

However, if you need to stay in N (Neutral) with the vehicle off, refer to the "To stay in N (Neutral) when vehicle is OFF" section in the following description.

To rotate the rotary gear shift dial to N (Neutral), rotate the rotary gear shift dial once clockwise or counterclockwise.

If the current gear position is in D (Drive), rotate the rotary gear shift dial counterclockwise. When the gear position is in R (Reverse), rotate the rotary gear shift dial clockwise.

### D (Drive)



To shift the gear to D (Drive), rotate the rotary gear shift dial to D (Drive) while depressing the brake pedal.

The reduction gear automatically activates the regenerative braking system according to the road conditions.

#### NOTICE

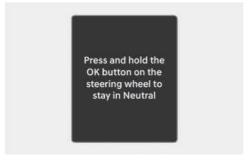
- When the vehicle is stopped in R (Reverse) or D (Drive), if the driver's door is opened, the gear shifts to P (Park) automatically.
  - If the vehicle is moving in R (Reverse) or D (Drive) and the driver's door is opened and the driver's seat belt is unfastened, the gear may not shift to P (Park) automatically to prevent reduction gear damage.
- Always come to a complete stop before shifting into D (Drive) to prevent reduction gear damage.



#### CAUTION

When you start after stopping on a steep incline, even if the gear is in D (Drive), if you do not depress the accelerator or brake pedal, the vehicle may roll backwards, which can cause an accident.

### To stay in N (Neutral) when vehicle is OFF





If you want to stay in N (Neutral) after the vehicle is in the ACC state, do the following.

- 1 Turn off Auto Hold and release Electronic Parking Brake when the vehicle is running.
- 2 Rotate the rotary gear shift dial to N (neutral) while depressing the brake pedal.
- 3 When you take your foot off the brake pedal, the message "Press and hold the OK button on the steering wheel to stay in Neutral" appears on the cluster display.
- 4 Press and hold the **OK** button [A] on the steering wheel for more than 1 second.

5 When the message "Vehicle will stay in (N). Change gear to cancel." (or "N will stay engaged when the vehicle is Off") appears on the cluster display, press the Start/Stop button while depressing the brake pedal.

If you open the driver's door within 3 minutes, the gear shifts to P (Park) and the Start/Stop button changes to the OFF position.

#### NOTICE

- With the gear in N (Neutral), the Start/Stop button is in the ACC position. Note that the
  doors cannot be locked in the ACC position or the 12 V battery may discharge if left in
  the ACC position for a long time.
- Before entering an automatic car wash, release the Electronic Parking Brake (EPB) manually. If EPB is applied, it may damage the vehicle or automatic car wash.

#### Information

When the Electronic Parking Brake (EPB) is applied, press the EPB switch while depressing the brake pedal. The Electronic Parking Brake (EPB) must be released manually because EPB does not release automatically even though the gear is shifted to N (Neutral).

### Automatic gear shift to P (Park)

The gear is shifted to P (Park) automatically for safety reasons under the following conditions:

- When the vehicle is turned off with the gear in R (Reverse), D (Drive) or N (Neutral).
- When the driver's door is open with the vehicle running, the gear in R (Reverse), D (Drive) or N (Neutral), and the vehicle at a standstill.
- When the driver's door is open with the gear in N (Neutral) and the vehicle is on. In situations the gear must be in P (Park), always check if the gear is shifted to P (Park) by checking the instrument cluster.

### Shift-lock system

For your safety, your vehicle has a shift-lock system which prevents shifting the gear from P (Park) or N (Neutral) into R (Reverse) or D (Drive) unless the brake pedal is depressed.

To shift from P (Park) or N (Neutral) into R (Reverse) or D (Drive), from R (Reverse) into D (Drive) or from D (Drive) into R (Reverse):

- 1 Depress and hold the brake pedal.
- 2 Start the vehicle.
- 3 Depress the brake pedal and shift the gear in R (Reverse) or D (Drive).

#### Information

The gear cannot be shifted while the charging cable is connected.

### When the battery (12 V) is discharged

You cannot shift the gears when the battery is discharged.

Jump start your vehicle (refer to the "Jump starting (12 V battery)" section in chapter 8 or we recommend that you contact an authorized HYUNDAI dealer.

#### Parking

Always come to a complete stop and continue to depress the brake pedal. Shift the gear to P (Park), apply the EPB, and press the Start/Stop button to the OFF position. Take the key with you when leaving the vehicle.

#### **Cluster display messages**

### Press brake pedal to change gear

This message is displayed when the brake pedal is not depressed while shifting the gear. Depress the brake pedal and then shift the gear.

### Shift to P after stopping

This message is displayed when the gear is shifted to P (Park) while the vehicle is moving. Stop the vehicle before shifting to P (Park).

### This gear is already selected

This message is displayed when the currently selected shift gear is selected again.

This message is displayed when the shift gear does not properly operate in the P (Park) position.

We recommend that your vehicle be inspected by an authorized HYUNDAI dealer.

#### Check P button

This message is displayed when there is a problem with the P (Park) button.

If this message is displayed when the button is not pressed, we recommend that your vehicle be inspected by an authorized HYUNDAI dealer.

### Shifting system error

This message is displayed when there is a malfunction with the rotary gear shift dial. We recommend that your vehicle be inspected by an authorized HYUNDAI dealer.

### Check rotary gear shift dial

This message is displayed when there is a malfunction with the rotary gear shift dial. We recommend that your vehicle be inspected by an authorized HYUNDAI dealer.

### Rotary gear shift dial stuck

This message is displayed when the rotary gear shift dial does not return back to it's normal position after rotating it.

We recommend that your vehicle be inspected by an authorized HYUNDAI dealer.

### PARK button error! Engage parking brake when parking vehicle

This message is displayed when the P (Park) button does not operate properly. We recommend that your vehicle be inspected by an authorized HYUNDAI dealer.

### **Good driving practices**

- Never shift the gear from P (Park) or N (Neutral) to any other position with the accelerator pedal depressed.
- Never shift the gear into P (Park) when the vehicle is moving. Be sure the vehicle is completely stopped before you attempt to shift into R (Reverse) or D (Drive).
- Do not shift the gear to N (Neutral) when driving. If the gear is shifted to N (Neutral) while driving. Doing so may increase the risk of an accident.
  - Also, shift the gear back to D (Drive) while the vehicle is moving may severely damage the reduction gear.
- When driving uphill or downhill, always shift to D (Drive) for driving forward or shift to R (Reverse) for driving rearwards. After selecting D (Drive) or R (Reverse), check the gear position indicated on the instrument cluster before driving. If the vehicle moves in the opposite direction of the selected gear, the vehicle may turn off and a serious accident might occur due to degraded brake performance.
- Do not drive with your foot resting on the brake pedal. Even light, but consistent pedal pressure can result in the brakes overheating, brake wear and possibly even brake failure.
- Always apply the parking brake when leaving the vehicle. Do not depend on placing the shift gear in P (Park) to keep the vehicle from moving.
- · Exercise extreme caution when driving on a slippery surface. Be especially careful when braking, accelerating or shifting gears. On a slippery surface, an abrupt change in vehicle speed can cause the drive wheels to lose traction and may cause loss of vehicle control resulting in an accident.
- Optimum vehicle performance and economy is obtained by smoothly depressing and releasing the accelerator.



### **MARNING**

### To reduce the risk of SERIOUS INJURY or DEATH:

- · ALWAYS wear your seat belt. In a collision, an unbelted occupant is significantly more likely to be seriously injured or killed than a properly belted occupant.
- · Avoid high speeds when cornering or turning.
- Do not make quick steering wheel movements, such as sharp lane changes or fast, sharp turns.
- · The risk of rollover is greatly increased if you lose control of your vehicle at highway speeds.
- Loss of control often occurs if two or more wheels drop off the roadway and the driver over steers to reenter the roadway.
- In the event your vehicle leaves the roadway, do not steer sharply. Instead, slow down before pulling back into the travel lanes.
- HYUNDAI Vehicle recommends you to follow all posted speed limits.

### N Brake regen

N Brake regen operates the paddle shifter to control the regenerative braking intensity of the vehicle. It improves the energy efficiency of the vehicle and helps the driver to have a better driving experience.

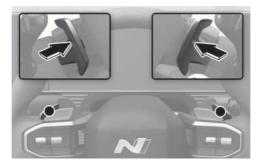
#### Information

The N Brake regen uses the electric motor to engage the brake. The electric motor converts the kinetic energy generated from decelerating the vehicle to electricity and charges the high voltage battery.

### **Using N Brake regen**

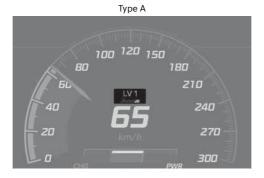
### Operating paddle shifter

Operate the paddle shifter as shown below to use the N Brake regen.



- Pull the left paddle shift (+6) once to raise the regenerative braking intensity level by 1. It increases decelerating intensity.
- Pull the right paddle shift (-10) once to lower the regenerative braking intensity level by 1. It decreases decelerating intensity.
- Pull and hold the left paddle shift (<u>+</u>••) for over 0.5 seconds to keep raising the regenerative braking intensity level. Keeping hold of the paddle shift brings the vehicle to stop. (For more information, refer to the "One Pedal Driving" section in this chapter.)
- (While the smart regeneration system is turned on) Pull and hold the right paddle (-2) shift for over 1 second to turn off the smart regeneration system. (For more information, refer to the "Smart regeneration system" section in this chapter.)

### Checking the amount of regenerative braking



Type B

The selected regenerative braking level is displayed on the instrument cluster. When the vehicle is turned off and on again after the regenerative braking level is lowered to 1, the braking level changes to 2.

### N Brake regen limitations

Regenerative braking intensity cannot be changed using the paddle shifter in the following situations:

- When the both paddle shifters are pulled at the same time.
- When the vehicle is decelerating by depressing the brake pedal.
- · When Smart Cruise Control is activated.
- When regenerative braking is continuously operated with the battery fully charged Initial setting of the regenerative braking level and adjustable range vary according to the selected Drive mode.

Drive mode	Adjustable Range	
ECO	0 to 3	
NORMAL	0 to 3	

Drive mode	Adjustable Range	
SPORT	0 to 3	

For more information, refer to the "Drive mode integrated control system" section in this chapter.

### N Brake Regen Optimization Mode

N Brake Regen optimization mode can be set based on the setting of ESC and Driving Mode (N Mode).

### Key regenerative braking when pressing the brake pedal

- General regenerative braking: Suited for everyday driving. Starting from the rear wheel generative braking, it increases the total amount of braking and operates regenerative braking of the front wheel at the same time.
- Optimizing regenerative braking: When driving a circuit, optimize the front and rear wheel generative braking from the early stage of braking in order to improve the thermal capacity of the brake.

#### Information

N brake regen operates separately, similar to i-PEDAL or Smart regenerative system that does not require the pressing of brake pedal.

### Regenerative Braking Maximization (RBM)

Regenerative braking maximization operates based on the following driving mode.

Driving Mode		ESC			
		ESC Normal	ESC Sport	ESC 2nd Off	
Driving Mode (D MIC)	ECO		NODMAI		
	NORMAL	NORMAL			
	SPORT	NORMAL	RBM	RBM	
N mode		NORMAL	RBM	RBM	
N specialized mode		Х	RBM	RBM	

### One Pedal Driving

One pedal driving operates the paddle shifter while coasting to control the intensity of regenerative braking. It assists the driver to stop the vehicle without depressing the brake pedal.

Coasting is the process of driving a vehicle without the brake pedal and the accelerator depressed. Coasting uses the inertia of driving energy instead of the vehicle power.

### Using one pedal driving

Pull and hold the left paddle shifter (,+0) for over 0.5 seconds while coasting to enable the one pedal driving mode.

- Release the paddle shifter when the vehicle speed is above 3 km/h to return to the previously set regenerative braking level.
- If the vehicle speed is below 3 km/h, the vehicle will keep engaging the brake although the driver releases the paddle shifter.
- Releasing the paddle shifter after the vehicle comes to a stop maintains the vehicle stationary.



### **CAUTION**

- The vehicle may not come to a stop although the one pedal driving function is active, depending on the condition of the vehicle and the road. Check the surroundings and depress the brake pedal to decelerate.
- If the driver depresses the accelerator while pulling and holding the left paddle shifter (+0) to increase the braking level, one pedal driving function will work like i-PEDAL function. In this case, the vehicle speed is no longer controllable through the paddle shifter.

### One pedal driving limitations

In the following conditions, the vehicle may not come to a stop although the one pedal driving function is active. Depress the brake pedal to stop the vehicle.

- When driving on a slope, or when the vehicle is repeatedly driven and stopped.
- When the vehicle is driving through the end of the slope.
- When driving on a slippery surface such as an icy, rainy, or muddy road.
- When the wheels are not properly aligned.
- When a wheel slip or wheel spin occurs.
- When the weight on board is too heavy.
- · When the vehicle is tilted to one side.
- · When the tire is worn out too much.

### Automatic engagement of EPB

Use one pedal driving function to bring the vehicle to a stop and automatically engage the Electronic Parking Brake (EPB).

After the vehicle is stopped, EPB is automatically engaged when any of the following conditions are satisfied

- The driver's seatbelt is unfastened and the driver's door is open.
- The gear shifts to N (Neutral).
- · The hood is open.
- · The tailgate is open.

- 5 minutes have passed after the vehicle has stopped.
- One pedal driving is limited due to other reasons.

#### **Using i-PEDAL**

i-PEDAL assists the driver to accelerate, decelerate, and stop the vehicle with only the accelerator pedal.

### Turning on/off the i-PEDAL

### · Turning on i-PEDAL:

Pull the left paddle shifter (.+1) once when the regenerative braking level is at 3. i-PEDAL is turned on and the instrument cluster displays the "i-PEDAL". i-PEDAL is not available while the smart regeneration system is ON. Turn off the smart regeneration system first before using i-PEDAL.

#### Turning off i-PEDAL:

Pull the right paddle shifter (-19) once while the function is ON. Otherwise, shift the gear to R (reverse) then to D (drive) while the function is ON. i-PEDAL is disabled and regenerative braking level is set to 3.



#### CAUTION

Depending on the vehicle and road condition, the vehicle may not come to a stop although the i-PEDAL function is active. Check for the surroundings and depress the brake pedal to control the vehicle speed.

Do not use i-PEDAL on slippery roads.

#### i-PEDAL limitations

In the following conditions, the vehicle may not come to a stop although the i-PEDAL is properly activated. Depress the brake to stop the vehicle.

- When driving on a slope, or when the vehicle is repeatedly driven and stopped
- · When the vehicle is driving through the end of the slope
- When driving on a slippery surface such as an icy, rainy, or muddy road
- When the wheels are not properly aligned
- When a wheel slip or wheel spin occurs
- · When the weight on board is too heavy
- When the vehicle is tilted to the side.
- · When the tire is worn out too much

### **Smart regeneration system**

The smart regeneration system recognizes vehicle-to-vehicle distance, road gradient, and speed cameras and controls the regenerative braking level while coasting. It reduces unnecessary depressing of pedals to improve energy efficiency and driver convenience.

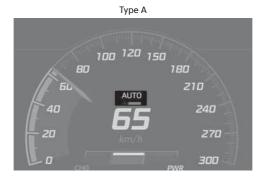
#### Information

- Coasting is the process of driving a vehicle without the brake pedal and the accelerator pedal depressed. Coasting uses the inertia of driving energy instead of the vehicle power.
- The regenerative braking system uses the electric motor to engage the brake. The electric motor converts the kinetic energy generated from decelerating the vehicle to electricity and charges the high voltage battery.

### Smart regeneration system on/off

Operate the paddle shifter as shown below to use the smart regeneration system.

• Turning on the smart regeneration system: While the READY indicator is ON, shift the gear to D (drive), and pull and hold the right paddle shifter (-10) for over a second.



Type B

The smart regeneration system is ON and the regenerative braking level is displayed as

• Turning off the smart regeneration system: While the smart regeneration system is ON, pull and hold the right paddle shifter (-①) for over a second. The instrument cluster

'AUTO'.

will display the regenerative braking level instead of 'AUTO', and the smart regeneration system turns off.

• Using one pedal driving: While the smart regeneration system is ON, pull and hold the left paddle shifter (,+19) for over 0.5 seconds (For more information, refer to the "One Pedal Driving" section in this chapter.)

i-PEDAL is not available while the smart regeneration system is ON. Turn off the smart regeneration system first before using i-PEDAL.

### **Smart regeneration system operating condition**

When the regenerative braking level is displayed as 'AUTO' and the vehicle speed is above 10 km/h (6 mph), the system automatically controls the regenerative braking level under the following conditions:

- · The road gradient changes.
- Distance from the vehicle ahead reduces or increases.
- Speed of the vehicle ahead reduces or increases.

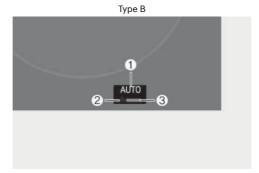


#### CAUTION

- When the Forward Safety warning light is ON, the smart regeneration system does not work properly. Depress the brake pedal to decelerate.
- The function that adjusts the regenerative braking intensity depending on the road gradient is only effective when the regenerative braking level is 0. Braking intensity does not significantly change depending on the road gradient if the regenerative braking level is 1 or above.

### **Smart regeneration level settings**





The instrument cluster displays 'AUTO' (1) when the smart regeneration system is ON. Depending on the conditions, the system adjusts the regenerative braking level (2). The sky blue indicator light (3) illuminates when the vehicle recognizes a vehicle.

### Smart regeneration default setting

The default braking level of the smart regeneration system can be changed. Set the default braking level to the lowest and let the system adjust the braking intensity automatically.

To change the default level of the smart regeneration system, pull the right paddle shifter  $(\neg \mathcal{D})$  once while the system is ON.

### Smart regeneration intensity setting

Regenerative braking intensity of the smart regeneration system can be adjusted to match the driver's preference. Adjust the braking intensity to make the decelerating faster or slower.



To adjust the regenerative braking level of the smart regeneration system, select **Electric Vehicle** > ★ > Smart Regeneration in the infotainment system.

### Pausing smart regeneration system

The smart regeneration system is temporarily limited/reduced in the following conditions. While the system is turned off, the driver must keep eyes on the surroundings and depress the brake pedal to decelerate.

• The gear is shifted to N (Neutral), R (Reverse) or P (Park).

- · Smart Cruise Control is ON.
- ESC (Electronic Stability Control) is operating.
- ABS is operating.

# Front sensors (Front radar)



# [A] Front radar

The front radar recognizes the distance from the vehicle ahead to control the regenerative braking intensity. When the front radar is covered with snow, rain, or other foreign substances, the performance of the sensors may reduce, and the smart regeneration system may turn off. Always keep the sensors clean.

# System warning due to sensor problems



If the smart regeneration system is turned off due to the front radar being covered with foreign substances or due to other causes, the "Check smart regeneration system" warning message appears. Also the regenerative braking level is displayed instead of 'AUTO'.

The system operates normally when such foreign material is removed, and the system is turned on by pulling and holding the right paddle shifter (-19) for over a second.

If the smart regeneration system does not operate normally after the front radar has been uncovered or unblocked, we recommend that you visit an authorized HYUNDAI dealer for inspection.

# **Smart regeneration system precautions**

- Always monitor the distance to vehicles ahead on the road. The smart regeneration system is not a substitute for safe driving practices, but a supplemental function only.
- Always maintain a safe distance from the vehicles ahead and adjust your vehicle speed
  to the road conditions. The smart regeneration system may not recognize unexpected
  and sudden situations or complex driving situations.

# General precautions

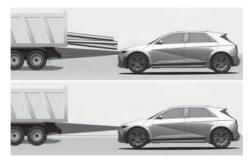
- Always maintain a safety distance from the vehicle ahead, and adjust your vehicle speed depending on the road conditions.
- Always prepare for unexpected situations and depress the brake pedal to decelerate
  when necessary. The smart regeneration system cannot react to pedestrians, vehicles
  making a sudden stop, and vehicles coming from the opposite lane.
- If the vehicle ahead frequently changes the lane, keep your eyes forward to be prepared for hazardous situations. In this case, the smart regeneration system may respond late and may inappropriately response to vehicle movements from the side lanes.
- The driver must depress the brake pedal when stopping the vehicle.
- Depress the brake pedal to decelerate in the following conditions when:
  - The front part of the vehicle is lifted up because of the cargo loaded on the rear part of the vehicle.
  - You are operating the steering wheel.
  - You are not driving in the center of the lane.
  - You are driving on a that is too narrow or too curved.
- The smart regeneration system may be temporarily turn off when exposed to strong electromagnetic waves.

# Front sensor precautions

- Make sure that no physical impact is applied to the sensor or its surroundings. If the sensor is dislocated due to the shock, the system may not work properly and the instrument cluster may not display any warnings. If the sensor is exposed to physical impacts, we recommend that you visit an authorized HYUNDAI dealer for inspection.
- The sensors and its surroundings, the sensor covers, and the vehicle grille should always be kept clean.
- Do not attach any accessories such as molding or stickers on the sensor and its detection range, or change the vehicle grille. It may affect sensor performance.
- Always use genuine parts for the sensor cover, and do not paint it.
- Use soft fabric to prevent damage to the sensor cover when washing the car.
- Do not spray the sensor or the surrounding with high pressure water.

# Precautions for vehicle recognition

 The front sensors may suddenly recognize the foregoing vehicle when the smart regeneration system reacts slowly, or the vehicle is going through the end of a slope or curve. In this case, the regenerative braking intensity is increased and the vehicle may slow down.



- The front sensors may be unable to recognize the vehicle ahead in the following situations even if it is on the same lane.
  - Narrow vehicles such as motorcycles or bicycles
  - Vehicles offset to one side
  - Slow-moving vehicles or sudden decelerating vehicles
  - Vehicles with small rear profile such as trailers with no loads
- When the vehicle in front of the foregoing vehicle is at a stop and the foregoing vehicle changes the lane, the front sensors may be unable to recognize the stopped vehicle.

#### Precautions on the curves



 The front sensors may be unable to recognize the foregoing vehicle if you are coasting on a curve. The regenerative braking intensity may automatically be lowered, which may accelerate the vehicle.



- On a curved road, the front sensors may recognize the vehicles on the other lane as the
  foregoing vehicle of the same lane. It may increase the regenerative braking intensity
  and the vehicle may decelerate. Check the surroundings and depress the accelerator to
  prevent unnecessary reduce of speed.
- If the front sensors suddenly recognize the vehicle ahead, regenerative braking intensity may rise and the vehicle may decelerate.

# Precautions on the slope



- When the vehicle is coasting through the end of a slope or where the gradient is
  changing, the front sensors may be unable to recognize, or may suddenly recognize the
  vehicle ahead. It may adjust the regenerative braking intensity and change the vehicle
  speed.
- When driving up or down the slope, check for the surroundings and depress the brake pedal to decelerate.

# Precautions for shifting lanes



## [A] Your vehicle

[B] Lane changing vehicle

- If a vehicle on the next lane is moving into the front of your vehicle, the front sensors can only recognize the vehicle when it is completely inside the detection range.
- The front sensors may recognize the vehicles late that intervene suddenly.

# **Braking system**

#### **Power-assist brakes**

Your vehicle has power-assisted brakes that adjust automatically through normal usage.

If the vehicle is not running or is turned off while driving, the power assist for the brakes may 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.



# MARNING

Take the following precautions:

- Do not drive with your foot resting on the brake pedal. This will create abnormal high brake temperatures, excessive brake lining and pad wear, and increased stopping distances. So increase the regeneration braking level with the left paddle shift lever to decrease the speed.
- When descending down a long or steep hill, use the paddle shifter to increase the regeneration braking level in order to decrease your speed without using the brake pedal excessively. Applying the brakes continuously will cause the brakes to overheat and could result in a temporary loss of braking performance.
- · Wet brakes may impair the vehicle's ability to safely decelerate. Because wet brakes increase braking distance and cause noise troubles, select 0 step of the regenerative braking system and depress the brake pedal around 10 times, with keeping the safe distance from other vehicles, lightly in order to dry the braking system. Such procedure may decrease the driving distance by restraining the regenerative braking system, which is not a system malfunction. Inspect the braking system after car wash or driving over wet road conditions.

### NOTICE

- Do not continue depressing the brake pedal if the vehicle is off (READY indicator OFF). The battery may be discharged.
- Noise and vibration generated during braking is normal.
- Under normal operation, electric brake pump noise and motor vibration may occur temporarily in below cases.
  - When the pedal is depressed suddenly.
  - When the pedal is repeatedly depressed in short intervals.
  - When the ABS function is activated while braking.

#### Disc brakes wear indicator

When your brake pads are worn and new pads are required, you may hear a high pitched warning sound from your front or rear brakes. You may hear this sound come and go or it may occur whenever you depress the brake pedal.

#### NOTICE

To avoid costly brake repairs, do not continue to drive with worn brake pads.

Information

Always replace brake pads as complete front or rear axle sets.

# High performance brake

As this vehicles equipped with the High Performance Brake (applied with material having high coefficient of friction), noise such as a squeal, squeak or groan is generated while braking. This is normal and the friction may create circle patterns on the disc surface. This is also a normal situation which does not affect braking performance.

## NOTICE

- · Occasional brake noise is normal. If a continuous grinding or continuous squeal sound is present, the brake lining may be worn-out. We recommend that the vehicle be checked by an authorized HYUNDAI dealer.
- If the vehicle has continuous vibration or shudder in the steeringwheel while braking, we recommend that the vehicle be checked by an authorized HYUNDAI dealer.



## MARNING

Frequent speeding and braking may deform components and worn the disc brake causing vibration when braking. Prevent brake damage by avoiding excessive braking. Brake wear, noise, vibration from excessive braking or deformation of the brakes caused by repeatedly braking in high speed, racing on tracks, etc., can be excluded from warranty coverage.

# **Electronic Parking Brake (EPB)**

# Applying the parking brake

To apply EPB (Electronic Parking Brake):

- 1 Depress and hold the brake pedal (1).
- 2 Pull up the EPB switch (2).



Make sure the Parking Brake warning light comes on.

EPB (Electronic Parking Brake) may be automatically applied when:

- · Requested by other systems.
- The driver turns the vehicle off while Auto Hold is operating.
- The gear is shifted to P (Park).

### **Emergency braking**

If there is a problem with the brake pedal while driving, emergency braking is possible by pulling up and holding the EPB switch. Braking is possible only while you are holding the EPB switch. However, braking distance may be longer than normal.



# WARNING

To reduce the risk of serious injury or death, do not operate the EPB while the vehicle is moving except in an emergency situation. It may damage the brake system and cause a collision.

#### Information

During emergency braking, the Parking Brake warning light illuminates and you may hear a clicking noise.

#### NOTICE

If you notice a noise or burning smell when the EPB is used for emergency braking, we recommend that your vehicle be inspected by an authorized HYUNDAI dealer.

# Releasing the parking brake

To release EPB (Electronic Parking Brake):

- 1 Press the Start/Stop button to ON or START position.
- 2 Press the EPB switch (2) while depressing the brake pedal (1).



Make sure the Parking Brake warning light goes off.

To release EPB (Electronic Parking Brake) automatically:

 Gear in P (Park) or in N (Neutral) With the vehicle running, depress the brake pedal and shift out of P (Park) or N (Neutral) to R (Reverse) or D (Drive). Make sure the doors, hood, and tailgate are closed and the seat belt is fastened.

#### Information

- You can engage EPB even though the Start/Stop button is in the OFF position (only if battery power is available), but you cannot release it.
- Depress the brake pedal and release the parking brake manually with the EPB switch before you drive downhill or when backing up.

#### NOTICE

- If the Parking Brake warning light is still on even though the EPB has been released, we recommend that your vehicle be inspected by an authorized HYUNDAI dealer.
- Do not drive your vehicle with EPB applied. It may cause excessive brake pad and brake rotor wear.

# Warning messages

To release EPB, fasten seatbelt and close door, hood and tailgate

If the driver's seat belt is unfastened, or the hood, tailgate, doors are open, and you try to drive with EPB applied, a warning sounds and a message appears.



## MARNING

To prevent serious injury or death from unintended vehicle movement:

- Always come to a complete stop and continue to depress the brake pedal before
  parking, shift the gear into P (Park), pull up the EPB switch, and press the Start/Stop
  button to the OFF position. Take the key with you when leaving the vehicle.
- Never allow anyone who is unfamiliar with the vehicle to touch the EPB switch.
- Only release EPB when you are seated inside the vehicle with your foot firmly on the brake pedal.

#### NOTICE

Driving with the parking brake on may overheat the braking system and cause premature wear or damage to brake parts.

#### Information

- A clicking sound may be heard while operating or releasing the EPB. These conditions
  are normal and indicate that EPB is functioning properly.
- When leaving your keys with a parking attendant or assistant, make sure to inform him/her how to operate the EPB.

#### EPB malfunction

Electronic Parking Brake (EPB) warning light illuminates if the Start/Stop button is in the ON position and goes off in about 3 seconds if the system is operating normally.

If the EPB warning light remains on, comes on while driving, or does not come on when the Start/Stop button is ON, the EPB may have malfunctioned.

If this occurs, we recommend that your vehicle be inspected by an authorized HYUNDAI dealer.

The EPB warning light may illuminate when the ESC indicator comes on to indicate that ESC is not working properly, but it does not indicate a malfunction of EPB.

#### Information

- If the Parking Brake warning light does not illuminate or blinks after the EPB switch has been pulled, the EPB may not be applied.
- If the EPB warning light is still on or the Parking Brake warning light blinks when the EPB warning light is on, press the switch, and then pull it up. Repeat this one more time. If the EPB warning does not go off, we recommend that your vehicle be inspected by an authorized HYUNDAI dealer.

# Parking brake warning light



This light illuminates when the Parking Brake is applied with the Start/Stop button in the START or ON position.

Before driving, make sure the Parking Brake is released and the Parking Brake warning light is OFF.

If the Parking Brake warning light remains on after the Parking Brake is released while the vehicle is running, there may be a malfunction in the brake system.

If possible, stop 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.

#### **Auto Hold**

Auto Hold maintains the vehicle in a standstill even though the brake pedal is not depressed after the driver brings the vehicle to a complete stop by depressing the brake pedal.

		m		

When the vehicle is restarted, the last setting for Auto Hold is applied.

# To apply:



#### [A] White

- 1 With the driver's door, hood, and tailgate closed, depress the brake pedal and then press the AUTO HOLD switch. The white AUTO HOLD indicator comes on and the system is in standby.
- 2 When you stop the vehicle completely by depressing the brake pedal, Auto Hold maintains the brake pressure to hold the vehicle stationary. The indicator changes from white to green.
  - The vehicle remains stationary even if you release the brake pedal.
  - If EPB is applied, Auto Hold is released.

# To release:

If you depress the accelerator pedal with the gear in D (Drive) or R (Reverse), the Auto Hold is released automatically and the vehicle starts to move. The AUTO HOLD indicator changes from green to white.



#### MARNING

Always look around your vehicle before depressing the accelerator pedal to release Auto Hold.

## To cancel:



#### [A] Light off

1 Depress and hold the brake pedal.

2 Press the AUTO HOLD switch.

The AUTO HOLD indicator turns off.



# MARNING ...

To prevent unintended vehicle movement, always depress your foot on the brake pedal to cancel the Auto Hold before you:

- · Drive downhill.
- · Drive the vehicle in R (Reverse).
- · Park the vehicle.

# Information

The Auto Hold does not operate when:

- The driver's door or hood is opened.
- The tailgate is opened.
- The gear is in P (Park) or R(Reverse) (Shift lever type only).
- · EPB is applied.
- The Auto Hold automatically switches to EPB when:
  - The driver's door or hood is opened.
  - The tailgate is opened.
  - The vehicle is in a standstill for more than 10 minutes.
  - The vehicle is standing on a steep slope.
  - The vehicle moves several times.

The Parking Brake warning light comes on, the AUTO HOLD indicator changes from green to white, and a warning sounds and a message appears to inform you that EPB has been automatically engaged. Before driving, depress the brake pedal, check the surrounding area, and release the parking brake manually with the EPB switch.

# NOTICE

If the AUTO HOLD indicator changes to yellow, or the driver's door, hood, or tailgate open detection system malfunctions, Auto Hold does not work properly. We recommend that you contact an authorized HYUNDAI dealer.

#### NOTICE

If there is a malfunction with the driver's door or hood open detection system, Auto Hold may not work properly.

We recommend that you contact an authorized HYUNDAI dealer.

# Warning messages

Parking brake automatically applied

When EPB is applied while Auto Hold is activated, a warning sounds and a message appears.

Turning off AUTO HOLD. Press brake pedal

When the conversion from Auto Hold to EPB is not working properly, a warning sounds and a message appears.



## CAUTION

If warning message is displayed, the Auto Hold and EPB may not operate normally. For your safety, depress the brake pedal.

# Press brake pedal to deactivate AUTO HOLD

If you did not apply the brake pedal when you release Auto Hold by pressing the AUTO HOLD switch, a warning sounds and a message appears.

Press the AUTO HOLD switch while depressing the brake pedal.

# **Brake Disc Cleaning**

Use the Brake Disc Cleaning function if noise is generated when depressing the brake while driving or if the brake disc gets rusty. It helps reduce the noise and rust. Regenerative braking is restrained while Brake Disc Cleaning is operated, which may lower the electric energy efficiency.

Press and hold the AUTO HOLD button for over 3 seconds.

- Brake Disc Cleaning starts operating when the message "Brake Disc Cleaning" is displayed on the instrument cluster.
- Regenerative braking is restrained while the brake is depressed about 10 times while driving (it may differ depending on driving conditions). It helps reduce the noise and
- Brake Disc Cleaning function will turn off automatically when the operation is completed. It can also be turned off before operation is completed by turning off the vehicle or pressing the AUTO HOLD button for over 3 seconds.

# Anti-Lock Brake System (ABS)



# **MARNING**

Anti-Lock Braking System (ABS) or Electronic Stability Control (ESC) system does 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. Always reduce the vehicle speed in extreme road conditions.

The braking distance for vehicles equipped with ABS or ESC may be longer than for those without these systems in the following road conditions.

Drive your vehicle at reduced speeds during the following conditions:

- Rough, gravel or snow-covered roads.
- On roads where the road surface is pitted or has different surface height.
- · Tire chains are installed on your vehicle.

Never test the safety features of an ABS or ESC equipped vehicle by high speed driving or cornering. It may cause a collision and endanger the safety of yourself or others.

ABS is an electronic braking system that helps prevent a braking skid. ABS allows the driver to steer and brake at the same time.

# Using ABS

To obtain the maximum benefit from your ABS in an emergency situation, do not attempt to modulate your brake pressure and do not try to pump your brakes. Depress your brake pedal as hard as possible.

ABS does not reduce the time or distance it takes to stop the vehicle.

Always maintain a safe distance from the vehicle in front of you.

ABS does not prevent a skid that results from sudden changes in direction, such as trying to take a corner too fast or making a sudden lane change. Always drive at a safe speed for the road and weather conditions.

ABS cannot prevent a loss of stability. Always steer moderately when braking hard. Severe or sharp steering wheel movement can still cause your vehicle to veer into oncoming traffic or off the road.

On loose or uneven road surfaces, operation of the anti-lock brake system may result in a longer stopping distance than for vehicles equipped with a conventional brake system.

The ABS ((iiii)) warning light stays on for several seconds after the Start/Stop button is in the ON position.

During that time, ABS goes through self-diagnosis and the light goes off if everything is normal. If the light stays on, we recommend that you contact an authorized HYUNDAI dealer as soon as possible.



#### WARNING

If the ABS ((iiii)) warning light is on and stays on you may have a problem with the ABS. Your power brakes work normally. To reduce the risk of serious injury or death it is recommended to contact your authorized HYUNDAI dealer as soon as possible.

#### NOTICE

When you drive on a road having poor traction, such as an icy road, and apply your brakes continuously, ABS is active continuously and the ABS ((iii)) warning light may illuminate. Pull your vehicle over to a safe place and turn off the vehicle.

Restart the vehicle. If the ABS warning light is off, then your ABS system is normal.

If not, we recommend that you contact an authorized HYUNDAI dealer as soon as possible.

# Information

When you jump start your vehicle because of a drained battery, the ABS (i) warning light may turn on at the same time. It does not mean your ABS is malfunctioning. Have the battery recharged before driving the vehicle.

# **Electronic Stability Control (ESC)**



The Electronic Stability Control (ESC) system helps stabilize the vehicle during cornering maneuvers.

ESC checks where you are steering and where the vehicle is actually going. ESC applies braking pressure to any one of the vehicle's brakes and intervenes in the electric vehicle control system to assist the driver with keeping the vehicle on the intended path. It is not a substitute for safe driving practices. Always adjust your speed and driving to the road conditions.



## WARNING

Never drive too fast for the road conditions or too quickly when cornering. The ESC system does not prevent a collision.

Excessive speed in turns, abrupt maneuvers, and hydroplaning on wet surfaces may result in severe collisions.

# ESC operation

## **ESC ON condition**

When the Start/Stop button is in the ON position, the ESC and the ESC OFF indicator lights illuminate for about 3 seconds. After both lights go off, ESC is enabled.

You may select between the following state of ESC:

- ESC NORMAL activated (ESC ON)
- ESC SPORT activated (ESC SPORT indicator illuminates)
- · ESC deactivated (ESC OFF indicator illuminates)

# When operating



When the ESC is operating, the ESC indicator light blinks:

- · When you apply your brakes under conditions that may lock the wheels, you may hear sounds from the brakes, or feel a corresponding sensation in the brake pedal.
- · When ESC activates, the vehicle may not respond to the accelerator as it does under routine conditions.

#### **ESC OFF condition**

To cancel ESC operation:

• State 1 (ESC SPORT mode)

Press the ESC OFF button briefly. The ESC SPORT indicator and the message, "Traction and Stability Control limited" illuminates.

The traction control function of ESC (electric vehicle control management) is limited, but the brake control function of ESC (braking management) still operates.

• State 2 (ESC OFF mode)



Press and hold the ESC OFF button continuously for more than 3 seconds. The ESC OFF indicator light and/or message "Traction and Stability Control disabled" illuminates and a warning chime sounds. Both the traction control function of ESC (electric vehicle control management) and the brake control function of ESC (braking management) are disabled.

If the Start/Stop button is pressed to the OFF position when ESC is off, ESC remains off. Upon restarting the vehicle, ESC automatically turns on again.

**Indicator lights** 

ESC indicator light (blinks)





ESC OFF indicator light (comes on)

When the Start/Stop button is in the ON position, the ESC indicator light illuminates, then goes off if the ESC system is operating normally.

The ESC indicator light blinks whenever ESC is operating.

If the ESC indicator light stays on, we recommend that your vehicle be inspected by an authorized HYUNDAI dealer as soon as possible.

The ESC OFF indicator light comes on when ESC is turned off.



## WARNING

When ESC is blinking, this indicates ESC is active:

- · Drive slowly and NEVER attempt to accelerate.
- Never turn off ESC while the ESC indicator light is blinking. You may lose control of the vehicle and collide.

## NOTICE

Driving with wheels and tires with different sizes may cause the ESC system to malfunction. Before replacing tires, make sure all four tires and wheels are the appropriate size for your vehicle. Never drive the vehicle with different sized wheels and tires installed.

# ESC OFF usage

When Driving

The ESC OFF mode should only be used briefly to help free the vehicle if stuck in snow or mud, by temporarily stopping operation of ESC, to maintain wheel torque.

To turn off ESC while driving, press the ESC OFF button while driving on a flat road surface.

#### NOTICE

To prevent damage to the reduction gear:

- Do not allow wheel(s) of one axle to spin excessively while the ESC, ABS, and Parking Brake warning lights appear. The repairs would not be covered by the vehicle warranty.
   Reduce motor power and do not spin the wheel(s) excessively while these lights appear.
- When operating the vehicle on a dynamometer, make sure ESC is turned off (ESC OFF light illuminated).

Turning ESC off does not affect ABS or standard brake system operation.

#### Drive mode selection

When the ESC is on, the characteristic of ESC varies according to which drive mode is selected by pressing the DRIVE MODE or N1 or N2 button on the steering wheel.

Mode button	Selected mode	Characteristic of ESC	
	ECO	NORMAL	
DRIVE MODE button	NORMAL	NORMAL	
	SPORT	SPORT	
N button	SPORT+(N)	NORMAL/SPORT/OFF	

For more details, refer to "Drive mode integrated control system" in this chapter.

#### CUSTOM mode

You may select the drive mode you prefer from the infotainment system screen.

- From the CUSTOM mode menu, select 'ESC > NORMAL / SPORT / OFF'.
- You may directly go to the CUSTOM mode menu by touching the infotainment system screen. For more details, refer to the separately supplied infotainment system manual.

When N1 or N2 button is set to CUSTOM mode, you cannot turn CUSTOM mode on by pressing either N1 or N2 button if ESC OFF setting is saved within CUSTOM mode. If N1 or N2 button is pressed, a message "ESC disabled in CUSTOM 1 (or 2) mode settings. Hold the button again to acknowledge" appears on the cluster LCD display. To turn on CUSTOM mode with ESC OFF setting, press and hold N1 or N2 button.

# **Vehicle Stability Management (VSM)**

Vehicle Stability Management is a function of the Electronic Stability Control (ESC) system. It helps the vehicle stay stable when accelerating or braking suddenly on wet, slippery and rough roads where traction over the four tires can suddenly become uneven.



#### WARNING

Take the following precautions when using Vehicle Stability Management:

- ALWAYS check the speed and the distance to the vehicle ahead. VSM is not a substitute for safe driving practices.
- Never drive too fast for the road conditions. VSM does not prevent accidents. Excessive speed in bad weather, on slippery and uneven roads can result in severe accidents.

# VSM operation

When operating

When VSM (steering support) is active, you might feel a corresponding sensation in the steering wheel. This is normal and it means your VSM is active.

#### Information

VSM does not operate when:

- Driving on a banked road such as gradient or incline.
- · Driving in reverse.
- · The ESC OFF indicator light is on.
- The MDPS (Motor Driven Power Steering) warning light (AI) is on or blinks.

#### VSM OFF condition

To cancel VSM operation, press the ESC OFF button. ESC OFF (悬) indicator light illuminates.

To turn on VSM again, press the ESC OFF button again. The ESC OFF indicator light goes out.



## WARNING

If the ESC (\$) indicator light or MDPS (()) warning light stays illuminated or blinks, your vehicle may have a malfunction with the VSM system. When the warning light illuminates. we recommend that your vehicle be inspected by an authorized HYUNDAI dealer as soon as possible.

## NOTICE

Driving with wheels and tires with different sizes may cause the VSM system to malfunction. Before replacing tires, make sure all four tires and wheels are the same size. Never drive the vehicle with different sized tires and wheels installed.

# Hill-Start Assist Control (HAC)

Hill-Start Assist Control helps prevent the vehicle from rolling backwards when starting from a stop on a hill. The system operates the brakes automatically for about 2 seconds (maximum of 5 seconds when the accelerator pedal is slightly depressed during HAC operation) and releases the brake after 2 seconds or when the accelerator pedal is depressed.



## WARNING

- · Always be ready to depress the accelerator pedal when starting from a stop on an uphill slope. Hill-Start Assist Control activates only for about 2 seconds.
- Hill-Start Assist Control does not operate when the gear is shifted to P (Park) or N (Neutral).
- Hill-Start Assist Control activates even when the ESC (Electronic Stability Control) is off. It does not activate, if the ESC is not operating normally.

# **Emergency Stop Signal (ESS)**

Emergency Stop Signal alerts the driver behind by blinking the stop lights, while sharply and severely braking.

# ESS operation

The stop light blinks quickly when:

- The vehicle suddenly stops. (The deceleration power exceeds 7 m/s<sup>2</sup>, and the driving speed exceeds 55 km/h (34 mph).)
- · ABS is activated.

#### ESS off

After the blinking of the stop lights, the hazard warning flasher automatically turns ON when:

- Driving speed is under 40 km/h (25 mph) and the sudden braking situation is over.
- · ABS is deactivated.

The hazard warning flasher turns OFF when:

- The vehicle drives at a low speed for a certain period of time.
- The driver can manually turn OFF the hazard warning flasher by pressing the button.



# CAUTION

Emergency Stop Signal does not activate, when the hazard warning flashers are already on.

# Multi-Collision Brake (MCB)

Multi-Collision Brake controls the brake automatically in the event of an accident where the airbag deploys to reduce the risk of additional accidents that may occur.

# MCB operation

- From the time the airbag deploys, Multi-Collision Brake monitors the depression intensity of the brake pedal and accelerator pedal for a short period. The system operates when the following conditions are met:
  - Vehicle speed is under 180 km/h (112 mph) at the time of collision.
  - The brake pedal and accelerator pedal is hardly depressed.
- When the driver steps on the brake pedal over a certain level while Multi-Collision Brake is active, the braking power takes priority over automatic braking by Multi-Collision Brake system. However, if the driver takes his/her foot off the brake pedal, automatic braking by Multi-Collision Brake system will maintain automatic braking.

#### MCB off

Multi-Collision Brake is canceled in the following situations:

- The accelerator pedal is depressed over a certain level.
- The vehicle stops.
- ESC (Electronic Stability Control) or electronic devices has malfunctioned.
- In a situation system cannot operate normally.
- 10 seconds have passed since the brake has been controlled automatically by Multi-Collision Brake system.

## WARNING

- Multi-Collision Brake decreases vehicle speed after a collision and reduces the risk of a second collision, but it does not prevent a second collision. You may drive away from the collision spot to avoid other dangerous situations by depressing the accelerator pedal.
- After the vehicle is stopped by Multi-Collision Brake, the system stops controlling the brakes. Depending on the situation, the driver should depress the brake or the accelerator pedal to prevent further accidents.

# **Brake Assistant System (BAS)**

The Brake Assistant System provides additional pressure when the brake pedal is momentarily and strongly depressed in a situation sudden braking is required while driving.

The Brake Assistant System reduces the time for ABS (Anti-Lock Brake System) control to enter and consequently reduces the braking distance, by providing additional pressure up to the point of ABS intervention.



## WARNING

The system may not operate depending on driver's driving habit, driving speed, the degree to which the brake pedal is depressed and the road surface condition.

# **Good braking practices**



# 🔼 WARNING

Whenever leaving the vehicle or parking, always come to a complete stop and continue to depress the brake pedal. Shift the gear to the P (Park) position, then apply the EPB, and press the Start/Stop button to the OFF position.

Vehicles parked with the EPB not applied or not fully engaged may roll inadvertently and may cause injury to the driver and others. ALWAYS apply the parking brake before exiting the vehicle.

Wet brakes can be dangerous! The brakes may get wet if the vehicle is driven through standing water or if it is washed. Your vehicle will not stop as quickly if the brakes are wet. Wet brakes may cause the vehicle to pull to one side.

To dry the brakes, apply the brakes slightly until the braking action returns to normal If the braking action does not return to normal, stop as soon as it is safe to do so. We recommend that your vehicle be inspected by an authorized HYUNDAI dealer.

DO NOT drive with your foot resting on the brake pedal. Even light, but constant pedal pressure can result in the brakes overheating, brake wear, and possibly even brake failure.

If a tire goes flat while you are driving, apply the brakes gently and keep the vehicle pointed straight ahead while you slow down. When you are moving slowly enough for it to be safe to do so, pull off the road and stop in a safe location.

Keep your foot firmly on the brake pedal when the vehicle is stopped to prevent the vehicle from rolling forward.

# **ALL Wheel Drive (AWD)**

When All Wheel Drive(AWD) is activated, driving forces are distributed appropriately to front and rear wheels. It could improve driving performance by maximizing the driving force of vehicles on severe road conditions such as steep hills, unpaved, slippery, etc.

Advantage of electronic AWD

- 1 Improvement of straight stability
- 2 Improvement of driving performance on curve
- 3 Secure stability on severe condition such as wet and sandy roads.
- 4 Improvement of energy efficiency from driving mode automatic control.

#### Information

AWD vehicles could change the engagement status of the motor according to the situation required. Auto changing the driving mode(2WD/AWD)helps improve energy efficiency and driving stability.



## WARNING

To reduce the risk of SERIOUS INJURY or DEATH:

- · Avoid high speeds when cornering or turning.
- Do not make quick steering wheel movements, such as sharp lane changes or fast, sharp turns.
- The risk of a rollover is greatly increased if you lose control of your vehicle at highway speeds.
- Loss of control often occurs if two or more wheels drop off the roadway and the driver over steers to reenter the roadway.
- In the event your vehicle leaves the roadway, do not steer sharply. Instead, slow down before pulling back into the travel lanes.

## NOTICE

- Do not drive in water if the level is higher than the bottom of the vehicle.
- Check your brake condition once you are out of mud or water. Depress the brake pedal several times as you move slowly until you feel normal braking return.
- Shorten your scheduled maintenance interval if you drive in off-road conditions such as sand, mud or water (see "Maintenance under severe usage conditions" section in chapter 9).
- Always wash your vehicle thoroughly after off road use, especially the bottom of the vehicle.
- Be sure to equip the vehicle with four tires of the same size and type.
- Make sure that a full time AWD vehicle is towed by a flat bed tow truck.

# For safe AWD operation

#### Before driving

- Make sure all passengers are wearing seat belts.
- Sit upright and closer to the steering wheel than usual. Adjust the steering wheel to a position comfortable for you to drive.

### Driving on snow-covered or icy roads

- Start off slowly by applying the accelerator pedal gently.
- Use snow tires or tire chains.
- Keep sufficient distance between your vehicle and the vehicle in front of you.
- · Using regenerative braking helps the steering on the downhill. However, it may be difficult to adjust the vehicle while coasting using regenerative braking, so avoid using the third level of regenerative braking as much as possible.
- Avoid speeding, rapid acceleration, sudden brake applications, and sharp turns to prevent skids.
- It is difficult to start again if the vehicle stops on an uphill road. Keep your distance from other vehicles and drive slowly.

#### Information

When using Snow Tires, mount them on all four wheels.

When using tire chains, install them on the rear tires.

However, driving speed must be below 30 km/h and minimize the driving distance. High-speed or long-term driving with tire chains installed may malfunction or damage the AWD system.

For more details on Snow Tires and Tire Chains, refer to "Winter driving" section later in this chapter.

# Driving in sand or mud

- · Maintain slow and constant speed.
- Use tire chains driving in mud if necessary.
- Keep sufficient distance between your vehicle and the vehicle in front of you.
- Reduce vehicle speed and always check the road condition.
- Avoid speeding, rapid acceleration, sudden brake applications, and sharp turns to prevent getting stuck.

#### NOTICE

When the vehicle is stuck in snow, sand or mud, place a nonslip material under the drive wheels to provide traction OR slowly spin the wheels in forward and reverse directions which causes a rocking motion that may free the vehicle.

### Driving uphill or downhill

- Driving uphill
  - Before starting off, check if it is possible to drive uphill.
  - Drive as straight as possible.

- Driving downhill
  - Do not change gear while driving downhill. Select gear before driving downhill.
  - Drive straight as possible.



# WARNING

Exercise extreme caution driving up or down steep hills. The vehicle may flip over depending on the grade, terrain, water and mud conditions.



## MARNING

Do not drive across the contour of steep hills. A slight change in the wheel angle can destabilize the vehicle, or a stable vehicle may lose stability if the vehicle stops its forward motion. Your vehicle may roll over and lead to a serious injury or death.

## Additional driving conditions

- · Become familiar with the off-road conditions before driving.
- Always pay attention when driving off-road and avoid dangerous areas.
- Drive slowly when driving in heavy wind.
- Reduce vehicle speed when cornering. The center of gravity of AWD vehicles is higher than conventional 2WD vehicles, making them more likely to roll over when you rapidly turn corners.
- Always hold the steering wheel firmly when you are driving off-road.



## WARNING

Do not grab the inside of the steering wheel when you are driving off-road. You may hurt your arm by a sudden steering maneuver or from steering wheel rebound due to an impact with objects on the ground. You could lose control of the steering wheel which may lead to serious injury or death.

# **Emergency precautions**

#### Tires

When replacing tires, be sure to equip all four tires with the same size, type, tread patterns, brand and load-carrying capacity.



#### 🔼 WARNING

Do not use tire and wheel with different size and type from the one originally installed on your vehicle. It can affect the safety and performance of your vehicle, which could lead to steering failure or rollover causing serious injury.



Never start or run the vehicle while an AWD vehicle is raised on a jack. The vehicle can slip or roll off of a jack causing serious injury or death to you or those nearby.

## Towing

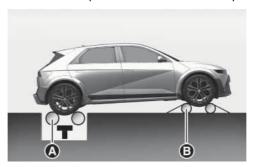
AWD vehicles must be towed with a wheel lift and dollies or flatbed equipment with all the wheels off the ground. For more details, refer to "Towing" section in chapter 8.

# Vehicle inspection

- If the vehicle needs to be operated on a vehicle lift do not attempt to stop any of the four wheels from turning. This could damage the AWD system.
- Never engage the parking brake while running the vehicle on a car lift. This may damage the AWD system.

# Dynamometer testing

An AWD vehicle must be tested on a special four wheel chassis dynamometer.



- [A] Roll tester (Speedometer)
- [B] Temporary free roller

An AWD vehicle should not be tested on a 2WD roll tester. If a 2WD roll tester must be used, perform the following procedure:

- 1 Check the tire pressures recommended for your vehicle.
- 2 Place the rear wheels on the roll tester for a speedometer test as shown in the illustration.

- 3 Release the parking brake.
- 4 Place the front wheels on the temporary free roller as shown in the illustration.



Keep away from the front of the vehicle while the vehicle is in gear on the dynamometer. The vehicle can jump forward and cause serious injury or death.

# **Electronic Limited Slip Differential**

Electronic Limited Slip Differential refers to a feature equipped with a mechanism that controls the differential functions of the wheels.

Electronic Limited Slip Differential controls the differential functions of the wheels to help:

- Improve handling performance when circling at high speed.
- Improve launching performance.
- Prevent slipping on rainy or snowy roads due to dissimilar friction of the left and right wheels.



## WARNING

Never run the wheels with one of wheels lifted on a jack. It is extremely dangerous for a vehicle equipped with Electronic Limited Slip Differential.

#### Drive mode selection

The characteristic of Electronic Limited Slip Differential varies according to which drive mode is selected by pressing the DRIVE MODE or N1 or N2 button on the steering wheel.

Mode button	Selected mode	Characteristic of e-LSD	
	ECO	NORMAL	
DRIVE MODE button	NORMAL	NORMAL	
	SPORT	SPORT	
N button	SPORT+(N)	SPORT+(N)	

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

Information

When activating N Drift Optimizer, e-LSD exclusively used for drifting will be provided.

#### **CUSTOM** mode

You may select the drive mode you prefer from the infotainment system screen.

- Select CUSTOM mode by pressing the N1 or N2 button on the steering wheel. The infotainment system screen will display the CUSTOM mode menu. From the CUSTOM mode menu, select 'e-LSD > NORMAL/SPORT'.
- You may directly go to the CUSTOM mode menu by touching the infotainment system screen. For more details, refer to the separately supplied infotainment system manual.

# Warning messages

# Electronic Limited Slip Differential temporarily disabled due to overheating

Overheating of related parts will temporarily disable Electronic Limited Slip Differential. Wait until the vehicle cools down.

# Limited-slip differential disabled. Tire diameter mismatch

If your vehicle is equipped with different tires (size, type, etc.), the message will appear. To use Electronic Limited Slip Differential, equip the vehicle with the same tires.

# Check Limited Slip Differential

When Electronic Limited Slip Differential is not working properly, this warning message will appear on the cluster display. If this occurs, we recommend that the system be inspected by an authorized HYUNDAI dealer.

# **N** Button

# N1/N2 button settings





- 1. Left N button
- 2. Right N button

The driver can set the N1/N2 button on the infotainment system screen by pressing the button approximately 0.8 seconds.

Each of the N1/N2 button can be set:

- 1. N mode selection
- 2. Start lap timer
- 3. Stop & reset lap timer
- 4. N Active Sound+
- 5. N e-Shift
- 6. N Launch Control

## Information

The same setting can be selected simultaneously on both N1 and N2 button.

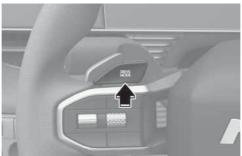
However, if the N1(N2) button is set to '(2) Start lap timer', the N2(N1) button is automatically set to '(3) Stop & reset lap timer'.

For more details, please refer to the infotainment system manual separately supplied.

# **Drive mode integrated control system**

#### **Drive mode**

Drive mode button



N1/N2 button



- 1. Left N button
- 2. Right N button

# Information

If N1 or N2 button is set to 'Drive mode' from the infotainment system, the drive mode can be selected by pressing N1 or N2 button.

For more details, please refer to the infotainment system manual separately supplied.

The drive mode may be selected according to the driver's preference or road condition. The system resets to be in the NORMAL mode, when the motor is restarted.



The mode changes, whenever the N1 or N2 button on the steering wheel or the Drive mode button is pressed.

When NORMAL mode is selected, it is not displayed on the instrument cluster.

#### ECO mode

When the Drive Mode is set to ECO mode, the motor and reduction gear control logic are changed to maximize energy efficiency.

- When the ECO mode is selected, the ECO indicator will illuminate.
- If the vehicle is set to ECO mode, when the vehicle is turned OFF and restarted, the Drive Mode setting will change to NORMAL mode.

#### Information

Energy 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 energy efficiency.

#### **Limitation of ECO mode operation:**

If the following conditions occur while ECO mode is operating, the system operation is limited even though there is no change in ECO indicator.

- When the coolant temperature is low:
  - The system will be limited until the vehicle performance becomes normal.
- · When driving up a hill:
  - The system will be limited to gain power when driving uphill because torque is restricted.
  - The system will be limited due to the shift location.
- When the accelerator pedal is deeply depressed for a few seconds:
  - The system will be limited, judging that the driver wants to speed up.

#### SPORT mode

SPORT mode manages the driving dynamics by automatically adjusting the steering effort, the motor and reduction gear control logic for enhanced driving performance.

- When SPORT mode is selected by pressing the DRIVE MODE button, the SPORT indicator will illuminate.
- · When SPORT mode is activated:
  - Upshifts are delayed when accelerating

# Information

In SPORT mode, the energy efficiency may decrease.

### **Drive mode characteristic**

The characteristic of each components varies depending on which drive mode is selected.

Drive mode	NORMAL	ECO	SPORT		
Characteristics	Normal driving mode	High electric energy efficiency mode	Sporty driving mode		
button activation	Press the DRIVE MODE button				
Indicator on the instrument cluster	-	ECO	SPORT		
Climate control system*1	NORMAL	ECO(ECO/NORMAL)	NORMAL		
Regenerative braking level	0-3				

<sup>\*1:</sup> You can set the driving condition for each drive mode, at the **Setting** > **Vehicle** > **Drive mode** > **ECO mode climate control** in the infotainment system..

#### Information

- The infotainment system may change after software updates. For more information, refer to the manual provided in the infotainment system and the quick reference guide.
- The Brake mode can be adjusted separately. Go to infotainment system, Setting > Vehicle > Drive mode > Brake mode to choose the mode you want to use.
   When it is set to N brake regen optimization mode, the brake mode will be optimized,

and its mode setting will become inactive.

# N Mode





- 1. Left N1 button
- 2. Right N2 button

Press  ${\bf N}$  button to start the N mode. The driving mode will reset to NORMAL mode once you start the vehicle again.

# Information

You can set the driving mode by pressing **N1/N2** button in the infotainment system. For more information, refer to "**N Button**" on **N1/N2** button settings.

#### N Mode

N mode selects the proper driving mode between SPORT and SPORT+ for each component that will affect the performance of a high-performance vehicle.

- The indicator will illuminate once you press **N** button to select N mode.
- N mode (SPORT/SPORT+) automatically adjusts the steering effort and motor control logic to enhance driving performance, making driving more dynamic.

## Information

In SPORT/SPORT+ mode, the energy efficiency may decrease.

#### **CUSTOM Mode**

Two CUSTOM modes (CUSTOM 1/CUSTOM 2) can be selected in the drive mode.

In CUSTOM mode, the drive mode can be selected depending on the driver preference.

- Motor: ECO/NORMAL/SPORT/SPORT+
- Steering: NORMAL/SPORT/SPORT+
- Suspension: NORMAL/SPORT/SPORT+
- e-LSD: NORMAL/SPORT/SPORT+
- ESC: NORMAL/SPORT/OFF
- NAS+: Ignition/Evolution/Supersonic

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

# **Performance Option Settings**

1 Select N mode (1) on the main screen of infotainment system.



2 Swipe the screen to the left (2).



3 Select Performance option (3).



4 On the left side of the infotainment screen, the performance option features appear. Select each feature for detailed settings.



#### N e-Shift

N e-Shift system is designed for EVs that consists of motor and decelerator only. The N e-Shift system gives the shifting feel of a automatic transmission of an internal combustion engine by controlling the VCU motor.

# Settings

- N2 button is initially set in the steering wheel. (You may change the button setting. Refer to "N Button" for more information)
- Select Performance options > N e-Shift in N mode screen and then press Activate button.



• When N e-Shift is activated, the sound of N Active Sound+ will automatically turn to ignition mode.

#### Basic functions

- Virtual shift control is possible to give the shifting feel of a automatic transmission of an internal combustion engine.
  - Shift Pattern: Differentiate pattern by mode, lower decreasing rate of braking, adjust shift, etc.
  - Shift feeling: Differentiate up/down shift by mode, down shift REV matching, WOT PUSH UP. etc.

- Auto/Manual mode: When adjusting the left and right paddle shift lever, change it from automatic shift mode to manual shift mode (to cancel manual mode, hold the left paddle shift for 2 seconds, then it will change to automatic mode)
- Sound effect: Internal/external sounds that are matched to the simulating engine RPM/ motor torque by gear
  - High-performance sound effect: Sound of after-fire tip out/bubbling sound, P/ON up shift bang sound
- Interface realization: Auto/manual mode (paddle shift), cluster (motor RPM, gear stage)



N e-Shift Cluster RPM Gauge

#### Information

- The function will only activate when the vehicle is in the Ready mode.
- You may use this feature in all driving modes, except ECO mode.
- You cannot use N e-Shift when Smart Cruise Control, N Drift Optimizer, N Grin Boost, N Launch Control, or Remote Smart Parking Assist is operating or when the Electric Vehicle system malfunctions or when the high voltage battery level is low.
- When N e-Shift activates, ECO mode, N Grin Boost, Smart Cruise Control (Speed Limit Assist) will be deactivated. After deactivating each feature, you may reenter N e-Shift.
- Temporary communication breakdown may interrupt VGS operation.
- The sense of simulating gear shift can be affected by the condition of the vehicle (fully charged or discharged). Driver safety features (e.g. TCS/ESC) may also interrupt its operation.

## Information

The paddle shifter can be used as a manual gear in N e-Shift system. The left paddle shifter [+] is used to shift up gear while the right paddle shifter [-] is used to shift down gear.

#### N Active Sound+

N Active Sound+ system is designed to provide a driver with more dynamic driving sound by offering optimized virtual sounds that are aligned with EVs performance. A driver can also adjust settings for external driving sound.

## Settings

Select **Performance options** > **N Active Sound+** in N mode screen to set the driving sound. 3 types of special driving sounds of N vehicle are offered.

- **Ignition**: Backfire sound simulating internal combustion engine N RPM to give the sense of unity between the vehicle and driver.
- Evolution: Turn sound simulating future EVs with high performance to give new experience to a driver.
- Supersonic: Powerful sound simulating a supersonic jet to give a sonic boom sound effect.



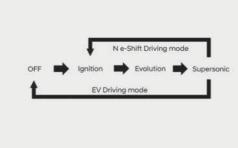
Press the \* button to adjust the sound.

- · Volume (inside): Adjust the volume.
- External speaker: Perform high-performance N sound and realize the sound effect to outside.
- High-performance sound effect: optimize high-performance N driving experience.



The setting will change every time you press the **NAS+** button in **Custom mode** of N mode screen.





Information

When setting a shortcut key, use the steering wheel N1/N2 button to select the sound.

## Basic functions

- You may enjoy the best sound by using the controller (ADP) based on your driving information (RPM/speed/torque/accelerator pedal).
- You may use the gear sound that is linked to N e-Shift (virtual gear).
- You may select the sound and make specific adjustments.
- You may use highly efficient sound effects such as backfire, sonic booms, launch control, etc.

• Use the external speaker to make a sound outside the vehicle.

Location of external speaker



#### **N Launch Control**

N Launch Control conveniently provides maximum acceleration when the vehicle is at a complete stop.

When using N Launch Control, N Grin Boost will be automatically activated to maximize the acceleration of a vehicle.

## Settings

1 Select the road grip level (LOW/MEDIUM/HIGH), which is aligned with the driving road condition, from Performance options > N Launch Control in N mode screen. Then, press the Activate button (1).



#### Information

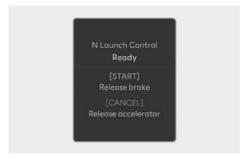
Pressing Reset Grip Level (2) will change the road grip level to HIGH.

2 When prerequisites are satisfied, N Launch Control is ready to activate once you fully and briefly depress the accelerator pedal with your right foot while the brake pedal is fully depressed with your left foot.

Prerequisite for activation

- Driving mode N mode (Custom motor mode Sport +)
- · ESC SPORT or OFF, shift position: D
- · Steering wheels are straight. Motor warning sign: absent

- Wheel speed is normal. Motor temperature is normal.
- "N Launch Control Ready" message will appear on the cluster once N Launch Control is ready to activate.



- 3 Once it is ready, pre-torque will be automatically initiated (when selecting Road grip level HIGH).
- 4 Start driving after releasing the brake pedal within 8 seconds.

#### Information

- N Launch Control will be canceled once you release the accelerator pedal.
- If you want to use N Launch Control, you must cool the vehicle at least 2 minutes.

#### Information

The use of N Launch Control is limited when N Grin Boost, Speed Limit Assist, N Drift Optimizer, N e-Shift, N pedal, N Torque Distribution is operating or the motor control unit is overheated.

#### Feature and Control

#### Pre-torque

Before driving, initiate the torque for wheel and driving system in advance so that a driver can minimize the preparation time for acceleration and shorten the time to accelerate after releasing the brake pedal.

#### Road grip level control

Control wheel slip and torque in 3 different stages to drive in accordance with the road condition.

Road grip level	Automatic link to N Grin Boost	Pre torque	
LOW	Not applied	Not applied	
MEDIUM	Applied	Not applied	
HIGH	Applied	Applied	

#### N Pedal

N pedal specializes in a rapid and linear deceleration by applying the 3 stages of regenerative braking. When the accelerator pedal is not used, it offers improved load movement and swiveling tuck in.



## CAUTION

- N Pedal should only be used on the exclusively designed race track.
- N Pedal may not observe the regulations of the country or region.
- The driver is responsible for observing the regulations of the country or region for safe driving.
- Drive cautiously as the vehicle may sensitively respond to the way you press the accelerator pedal while you drive at the maximum speed.

## Setting

• When it is set to Motor mode (N mode or CUSTOM mode (motor Sport + mode)) and ESC mode (SPORT or OFF), select N Track > N Pedal in N Mode screen and press OK button of the steering wheel.



Or select **Performance options** > **N Pedal** in N Mode screen and press **Activate** button.



- How to use: You can choose from 3 stages of N Pedal by using the existing regenerative braking pedal.
  - N Pedal OFF: Lv 0~3 stages, i-PEDAL with 5 stages
  - N Pedal ON: N Pedal 1~3, with 3 stages

#### Information

- The use of N pedal will be limited when N Grin Boost, Smart Cruise Control (Speed Limit Assist), or Remote Smart Parking Assist is operating or when the electric vehicle's service warning light is on.
  - (When N Pedal is operating, N Grin Boost and N Launch Control will be temporarily canceled. Once N Pedal deactivates, N Grin Boost and N Launch Control will reactivate.)
- There can be some difference in the regenerative braking and response rate depending on the driving condition, high voltage battery level, etc.

## System

Offered in 3 stages depending on the regenerative braking, response rate and distribution ratio of front/rear wheel operation. (N Pedal 1~3)

## **N Torque Distribution**

N Torque Distribution is to help a driver directly distribute the driving force of front and rear wheel.



## CAUTION

N Torque Distribution should only be used in the exclusively designed race track.

## Setting

Select N Track > N Torque Distribution in N mode screen and click OK button on the steering wheel.

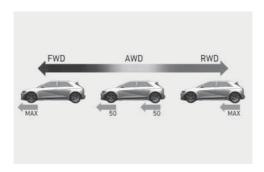




## CAUTION

For your safety, adjust N Torque Distribution setting when the vehicle is at full stop.

With 11 stages of distribution ratio, it offers different driving conditions depending on the operating measure (Front wheel Max- front wheel max 50%/ Rear wheel 50%- real wheel Max).



#### Information

- The use of N Torque distribution is limited when N e-shift, Smart Cruise control (Speed Limit Assist), or Remote Smart Parking Assist is operating or when the high voltage battery level is low or when the electric vehicle's service light is on.
- N Launch Control will be canceled when N Torque Distribution is operating.

#### **N Grin Boost**

N Grin Boost is to maximize the performance of the battery and motor for a certain period in situations where rapid acceleration is required. This is designed to offer the maximum sense of acceleration by increasing output and realizing rapid response.

5 4 1.5 G 0.00 0.00

Type A (N mode)

Type B (Normal mode)



## Setting

· Press NGB button (1) of the steering wheel.



- You may increase the output 40 hp for 10 seconds (601 hp > 641 hp) and maximize the motor response rate.
- You may reuse after waiting for 10 seconds following 10 seconds of use.

## Information \_

- This may not operate when the battery SOC is below 30 %. It is also difficult to realize the maximum output when the battery temperature is below 20 °C.
- The high temperature of inverter environment may limit its operation.

## Information

The use of N Grin Boost is limited when N Launch Control and Endurance mode of N Race are operating.



- The driver should hold the responsibility to safely drive and control the vehicle when using N Grin Boost.
- Do not attempt dangerous driving while using N Grin Boost.
- It is recommended to use after vehicle break-in and continuous use of N Grin Boost can overload the vehicle components such as reduction gear, motor and drive shaft.

#### N Race

N Race minimizes output limits that may occur while driving on the track through enhanced battery/motor cooling.

#### Setting

Select N Track > N Race in N mode screen and press OK button on the steering wheel.



Or Select **Performance options** > **N Race** in N mode screen and choose Sprint mode or Endurance mode.



- Setting: N mode or CUSTOM mode (motor SPORT+)
- · Features can be used at once:
  - N Launch Control, N Drift Optimizer, N Torque Distribution
  - N Grin Boost (Sprint mode), N e-Shift

#### Sub functions

• Sprint mode: No limitation on output. N Grin Boost is available.

• Endurance mode: Racing mode to increase driving range by partially limiting output. The use of N Grin Boost is limited.

#### Information

The use of N race is limited when Smart Cruise Control (Speed Limit Assist), Remote Smart Parking Assist, Utility mode, or N Battery Preconditioning is operating.



## CAUTION

For track driving, the motor and battery are cooled to the maximum, which may result in increased noise and vibration and reduced air conditioning performance. Frequent use of N Race can weaken battery durability.

## **N Battery Preconditioning**

N Battery Preconditioning system is to select DRAG/TRACK mode and provide the heating/cooling with the optimized battery temperature according to the driving purpose.

## Setting

Select Battery tap in N mode screen to activate it.



Or select **Performance options** > **N Battery Preconditioning** in N mode screen.



Depending on the current and target temperature, heater/chiller will be adjusted and the estimated time will be displayed accordingly.

The estimated time is based on the vehicle at a complete stop and A/C being turned off. This may change depending on the driving and external conditions.

## 402 Driving your vehicle

#### Basic functions

Functions	DRAG	TRACK		
Purpose	Drag race or driving with max output in a short period of time such as track time attack	Driving with high load for a long period of time such as continuous track driving (one session)		
Target temperature	30~40 °C (proper temperature for maximum acceleration)	20~30 °C (low temperature to avoid derating in the latter half of session)		
Remarks	Display current battery temperature (color bar) and expected time to complete			

## Operating condition

Function	Driving mode	soc	Vehicle condition	Others
DRAG	Every driving mode except N Race	Above 40%	EV ready state	After conditioning, additionally operate 30 mins to maintain optimal temp.
TRACK	<b>↑</b>	<b>↑</b>	EV ready state or speed charging*1	<b>↑</b>

<sup>\*1:</sup> Charging time may increase in order to minimize temperature rise while charging

#### Information

This function is canceled when using EVs system hazard warning flasher and entering utility mode.

We recommend that you activate N Race when driving on a track after completing the Preconditioning.

When driving on a track without completing the Preconditioning, the performance can be reduced depending on the battery temperature.

# **N Drift Optimizer**

N Drift Optimizer offers AWD driving distribution for drift driving, control of wheel spinning, and settings for ESC, e-LSD, suspension, and steering.

#### Basic functions

 When driving on a curved road, it helps start and maintain drift driving with rear wheel driving and improve vehicle spinning reduction and acceleration while going straight with the active distribution of front wheel.

- Useful to anticipate the vehicle position with the optimization of driving force generated from using the accelerator pedal.
- · Can control e-LSD and TCS/ESC to avoid the excessive spin out and wheel spin of the driving wheel.
- · Optimized handling balance and weight of steering by setting the drift mode of electric damper and steering.

## Information

## • RTO (Regenerative Torque Oversteer)

When releasing the accelerator pedal while driving on a curved road, it helps drift by creating the movement of rear wheel with the generative braking.

#### Torque Kick

When pulling and releasing the left/right paddle shift lever at the same time while driving on a curved road, the driving torque, which is similar to the clutch kick of a manual gear shift, will be generated.



## CAUTION

- Continuous use of Drift mode may damage some parts of the vehicle such as the drive shaft, brake and reduction gear unit.
- N Drift Optimizer should only be used on the race track.
- N Drift Optimizer may not observe the regulations of the country or region
- · Driver is responsible for observing the regulation of the country and region for safe driving.
- This can cause early damage or wear out of a tire.

## Basic setting

- · How to activate:
  - Motor mode: SPORT+, ESC OFF, BRAKE ON, gear P/N/D
  - Select N Mode > N Drift Optimizer in the infotainment system and press OK button on the steering wheel.



- · How to deactivate:
  - Change the Drive mode.
  - Turn off the infotainment system switch.

#### 404 Driving your vehicle

- Turn on ESC.

#### Information

- · You may use N Drift Optimizer while operating N Race and N Battery Preconditioning.
- The use of N Drift Optimizer is limited when N Grin Boost, Remote Smart Parking Assist, or Smart Cruise Control is operating or when the electric vehicle's service waring light
- When N Drift Optimizer is operating, N Launch Control, N e-Shift, N Pedal, N Grin Boost, and N Torque Distribution will be automatically canceled.



## CAUTION

- When using N Drift Optimizer, the driver is responsible for safe driving.
- Only skilled drivers are recommended to use this on safe roads.

## Left Foot Braking

Left Foot Braking allows the driver to depress the accelerator pedal and the brake pedal at the same time, when driving a high-performance vehicle on a racing circuit or winding roads.

#### Information

What is Left Foot Braking?

Driving technique to depress the brake pedal while controlling the accelerator pedal to control yaw when cornering.



## CAUTION

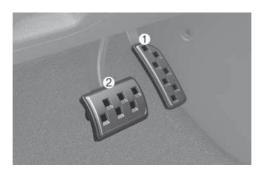
Inexperienced left-foot braking or driving in conditions such as rough, icy, or wet roads can lead to unexpected vehicle movement.

For your safety, familiarize yourself with the technique in advance, and use this feature only on a track where safety guaranteed.

It is your responsibility to operate your vehicle in a safe manner.

## Settina

While pressing both accelerator (1) and brake (2) pedal, set the motor mode to SPORT+ and ESC OFF. Then, Brake Override System will not operate and Left Foot Braking will activate.



#### Information

## Brake Override System

A situation in which the accelerator pedal will not operate (reduced torque) when depressing the brake pedal while the accelerator pedal is depressed.

#### How to deactivate

Left Foot Braking will deactivate when other systems are operating except motor mode SPORT+ and ESC OFF.

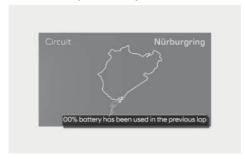
#### **Track SOC**

Track SOC is an auxiliary feature to automatically display the battery consumption per lap when driving on a track.

The general DTE does not satisfy the circuit driving condition. By automatically informing the battery consumption per lap, this feature alleviates a driver's anxiety about running short of EVs battery.

# Condition to operate

- When entering the track which has been initially set in the infotainment of the vehicle, it will be automatically activated.
- When the track widget activates, the track SOC will be displayed and the message "00% battery has been used in the previous lap" will appear.



• Linked to the automatic/manual lap timer, it displays SOC consumption used for the highest record.



## **N Road Sense**

N Road Sense is a feature to guide N mode when the front camera senses the road sign indicating double curve roads ahead.

## Basic functions

When the front camera senses two curved roads ahead while driving, "Double curve sign sensed" message will appear on the cluster. Press the OK button on the steering wheel and N mode will be activated.





## **Electronic Controlled Suspension (ECS)**

Electronic Controlled Suspension is a feature to realize N character by applying the electronic suspension that is specialized in high-performance EVs.

- Optimized the amount of damper to realize N character of high-performance EVs.
- Ranging from ordinary riding to circuit riding, it offers unique ride experiences with different riding conditions.
- You may experience the ride quality of a high-performance vehicle by controlling the damping force of each wheel in accordance with the road conditions.

Into	rm	atı	on

ECS stands for Electronic Controlled Suspension.

# **Active air flap**

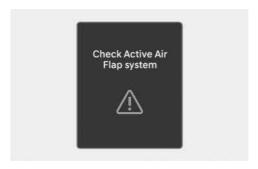


Active air flap system controls the air flap below the front bumper to cool the vehicle parts and improve energy efficiency.

Information

Active air flap system could be activate regardless of the vehicle condition. (Parking, driving, charging, etc.)

#### Malfunction



The active air flap system may not operate normally if the air flap is temporarily opened due to foreign factors or if the controller is contaminated by snow or rain, etc.

When "Check Active Air Flap System" is popped up on display, stop the vehicle in a safe place and check the status of the air flap.

Start the vehicle after performing the necessary work like foreign matter removal and waiting 10 minutes. If the pop-up remains up we recommend that you contact an authorized HYUNDAI dealer.



## CAUTION

- · Regardless of the pop-up, if the air flaps aren't in the same position, stop the vehicle and wait for 10 minutes and start the vehicle and inspect the air flap.
- The active air flap system is actuated by motors. Do not disturb actuation or apply force excessively. It may cause failure.

# **Special driving conditions**

## **Hazardous driving conditions**

When hazardous driving elements are encountered such as water, snow, ice, mud and sand, take the following precautions:

- Drive cautiously and maintain a longer braking distance.
- Avoid abrupt braking or steering.
- When your vehicle is stuck in snow, mud, or sand, accelerate slowly to avoid unnecessary wheel spin.
- Put sand, rock salt, tire chains or other non-slip materials under the wheels to provide additional traction while the vehicle becomes stuck in ice, snow, or mud.



#### WARNING

Changing the tire speed suddenly could cause the tires to skid while driving on slippery surface. Be careful when driving on slippery surfaces.

## Rocking the vehicle

If it is necessary to rock the vehicle to free it from snow, sand, or mud, first turn the steering wheel right and left to clear the area around your front wheels. Then, shift back and forth between R (Reverse) and a forward gear.

Try to avoid spinning the wheels, and do not race the vehicle.

To prevent reduction gear wear, wait until the wheels stop spinning before shifting gears. Release the accelerator pedal while shifting, and press lightly on the accelerator pedal while the reduction gear is in gear. Slowly spinning the wheels in forward and reverse directions causes a rocking motion that may free the vehicle.



## 🛝 WARNING

- Always turn off the ESC system before rocking the vehicle. If the vehicle is stuck and
  excessive wheel spin occurs, the temperature in the tires may increase very quickly. If
  the tires become damaged, a tire blow out or tire explosion may occur you and others
  may be injured. Do not attempt this procedure if people or objects are near the vehicle.
- If you attempt to free the vehicle, the vehicle may overheat quickly, possibly causing a
  motor compartment fire or other damage. Try to avoid spinning the wheels as much as
  possible to prevent overheating of the tires or the motor. DO NOT allow the vehicle to
  spin the wheels above 56 km/h (35 mph).
- If you are still stuck after rocking the vehicle a few times, have the vehicle pulled out by a tow vehicle to avoid motor overheating, possible damage to the gear, and tire damage.

# **Smooth cornering**

Avoid braking or gear changing in corners, especially when roads are wet. Ideally, corners should always be taken under gentle acceleration.

## **Driving at night**

Night driving presents more hazards than driving in the daylight. Here are some important tips to remember:

- Slow down and keep more distance between you and other vehicles, as it may be more difficult to see at night, especially in areas where there may not be any street lights.
- Adjust your mirrors to reduce the glare from other drivers' headlights.
- Keep your headlights clean and properly aimed. Dirty or improperly aimed headlights will make it much more difficult to see at night.
- Avoid staring directly at the headlights 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. For more information, refer to the "Tire replacement" section in chapter 9.
- Turn on your headlights 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 the "Tire replacement" section in chapter 9.

# **Driving in flooded areas**

Avoid driving through flooded areas unless you are sure the water is no higher than the bottom of the wheel hub. Drive through any water slowly. Allow adequate stopping distance because brake performance may be reduced.

After driving through water, dry the brakes by gently applying them several times while the vehicle is moving slowly.

# **Highway driving**

#### **Tires**

Adjust the tire inflation, as specified. Under-inflation may overheat or damage the tires. Do not install worn-out or damaged tires, which may reduce traction or fail.

Never over-inflate your tires above the maximum inflation pressure, as specified on your tires.

## Coolant and high voltage battery

Driving at higher speeds on the highway consumes more electric energy and is less efficient than driving at a slower, more moderate speed. Maintain a moderate speed in order to conserve electric energy when driving on the highway.

Be sure to check both the coolant level and the electric energy level before driving.

## Reducing the risk of rollover

Your multi-purpose passenger vehicle is defined as a Sports Utility Vehicle (SUV). Some SUVs have higher ground clearance and a narrower track to make them capable of performing in a wide variety of off-road applications. The specific design characteristics can give them a higher center of gravity than ordinary passenger vehicles making them more likely to roll over if you make abrupt turns. SUVs have a significantly higher rollover rate than other types of vehicles. Always make sure you and your passengers wear your seat belts properly and securely. In a rollover crash, an unbelted person is significantly more likely to be seriously injured or killed than a person wearing a seat belt.

There are steps that a driver can make to reduce the risk of a rollover. If at all possible, avoid sharp turns or abrupt maneuvers, do not load your vehicle with heavy cargo on the roof, and never modify your vehicle in any way.



## MARNING

Some Sports Utility Vehicles (SUVs) can have a significantly higher rollover rate than other types of vehicles. To prevent rollovers or loss of control:

- Take corners at slower speeds than you would with a passenger vehicle.
- Avoid sharp turns and abrupt maneuvers.
- Do not modify your vehicle in any way that you would raise the center of gravity.
- Keep tires properly inflated.
- · Do not carry heavy cargo on the roof.



## 🛝 WARNING

Fasten your seat belt properly. In a rollover crash, an unbelted person is significantly more likely to be seriously injured or killed than a person wearing a seat belt.

# Winter driving

## **Snow or icy conditions**

You need to keep sufficient distance between your vehicle and the vehicle in front of you.

Apply the brakes gently. Speeding, rapid acceleration, sudden brake applications, and sharp turns are very hazardous practices. Sudden brake applications on snowy or icy roads may cause the vehicle to skid.

To drive your vehicle in deep snow, it may be necessary to use snow tires or to install tire chains on your tires.

Always carry emergency equipment. You may want to carry 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



## MARNING

Snow tires should be equivalent in size and type to the vehicle's standard tires. Otherwise, the safety and handling of your vehicle may be adversely affected.

Use snow tires when the road temperature is below 7 °C (45 °F). If you mount snow tires on your vehicle, be sure to use the same inflation pressure as the original tires. Mount snow tires on all four wheels to balance your vehicle's handling in all weather conditions.

The traction provided by snow tires on dry roads may not be as high as your vehicle's original equipment tires. Check with the tire dealer for maximum speed recommendations.

#### Tire chains



Since the sidewalls on some radial tires are thinner than other types of tires, they may be damaged by mounting certain types of tire chains on them. Therefore, the use of snow tires is recommended instead of tire chains. Do not mount tire chains on vehicles equipped with aluminum wheels; if possible, use AutoSock (fabric snow chain). Install the tire chain after reviewing the instructions provided with the tire chains. Damage to your vehicle caused by improper tire chain use is not covered by your vehicle manufacturer's warranty.



The use of AutoSock (fabric snow chain) may adversely affect vehicle handling:

- Drive less than 30 km/h (20 mph) or the chain manufacturer's recommended speed limit, whichever is lower.
- Drive carefully and avoid bumps, holes, sharp turns, and other road hazards, which may
  cause the vehicle to bounce.
- Avoid sharp turns or locked wheel braking.

## Information

- Install AutoSock (fabric snow chain) only in pairs and on the rear tires. It should be
  noted that installing AutoSock (fabric snow chain) on the tires will provide a greater
  driving force, but will not prevent side skids.
- Do not install studded tires without first checking local and municipal regulations for possible restrictions against their use.

#### **Chain Installation**

When installing AutoSock (fabric snow chain), follow the manufacturer's instructions and mount them as tightly as possible. Drive slowly (less than 30 km/h (20 mph)) with chains installed. If you hear the chains contacting the body or chassis, stop and tighten them. If they still make contact, slow down until the noise stops. Remove the AutoSock (fabric snow chain) as soon as you begin driving on cleared roads.

When mounting AutoSock (fabric snow chain), park the vehicle on level ground away from traffic. Turn on the vehicle Hazard Warning Flasher and place a triangular emergency warning device behind the vehicle (if available).

Always place the vehicle in P (Park), apply the parking brake and turn off the engine before installing tire chains.

#### NOTICE

When using AutoSock (fabric snow chain):

- Wrong size chains or improperly installed chains can damage your vehicle's brake lines, suspension, body and wheels.
- If you hear noise caused by chains contacting the body, retighten the chain to prevent contact with the vehicle body.
- To prevent body damage, retighten the chains after driving 0.5~1.0 km (0.3~0.6 miles).

## Winter precautions

## Check battery and cables

Winter temperatures may affect the battery performance. Inspect the battery and cables, as specified in Chapter 9. The battery charging level can be checked by an authorized HYUNDAI dealer or in a service station.

# To prevent locks from freezing

Spray approved de-icing fluid or glycerin into key holes. When a lock opening is already covered with ice, spray approved de-icing fluid over the ice to remove it. When an internal

part of a lock freezes, try to thaw it with a heated key. Carefully use the heated key to avoid an injury.

## Use approved window washer antifreeze solution

Add window washer anti-freeze solution, as specified on the window washer container. Window washer anti-freeze solution is available from an authorized HYUNDAI dealer, and most vehicle accessory outlets.

## Do not let your parking brake freeze

Under some conditions, your parking brake may 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 the brakes are wet. When there is the risk that your parking brake may freeze: temporarily apply the parking brake with the gear in P (Park), then block the rear wheels, and then release the parking brake.

#### Do not let ice and snow accumulate underneath

Under some conditions, snow and ice may build up under the fenders and interfere with the steering. When driving in such conditions during the severe winter, check underneath the vehicle on a regular basis, to make sure that the front wheels and the steering components are not blocked.

## Carry emergency equipment

In accordance with weather conditions, carry appropriate emergency equipment, while driving. Some of the items you may want to carry include tire chains, tow straps or chains, flashlight, emergency flares, sand, shovel, jumper cables, window scraper, gloves, ground cloth, coveralls, blanket, etc.

## Do not place objects or materials in the motor compartment

Putting objects or materials in the motor compartment may cause an motor failure. Such damage is not covered by the manufacturer's warranty.

# Vehicle weight

Two labels on your driver's door sill show how much weight your vehicle was designed to carry: the Tire and Loading Information Label and the Certification Label.

Before loading your vehicle, familiarize yourself with the following terms for determining your vehicle's weight ratings, from the vehicle's specifications and the Certification Label:

## Base Curb Weight

This is the weight of the vehicle including high voltage battery and all standard equipment. It does not include passengers, cargo, or optional equipment.

## Vehicle Curb Weight

This is the weight of your new vehicle when you picked it up from your dealer plus any after market equipment.

## Cargo Weight

This figure includes all weight added to the Base Curb Weight, including cargo and optional equipment.

## GAW (Gross Axle Weight)

This is the total weight placed on each axle (front and rear) - including vehicle curb weight and all payload.

## GAWR (Gross Axle Weight Rating)

This is the maximum allowable weight that can be carried by a single axle (front or rear). These numbers are shown on the Certification Label. The total load on each axle must never exceed its GAWR.

## GVW (Gross Vehicle Weight)

This is the Base Curb Weight plus actual Cargo Weight plus passengers.

# GVWR (Gross Vehicle Weight Rating)

This is the maximum allowable weight of the fully loaded vehicle (including all options, equipment, passengers and cargo). The GVWR is shown on the Certification Label located on the driver's door sill.

## **Overloading**



## ▲ WARNING

The Gross Axle Weight Rating (GAWR) and the Gross Vehicle Weight Rating (GVWR) for your vehicle are on the Certification Label attached to the driver's (or front passenger's) door. Exceeding these ratings can cause an accident or vehicle damage. You can calculate the weight of your load by weighing the items (and people) before putting them in the vehicle. Be careful not to overload your vehicle.

# 7. Driver Assistance System

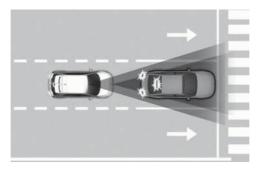
# **Driver assistance system notice**

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

# Forward Collision-Avoidance Assist (FCA)



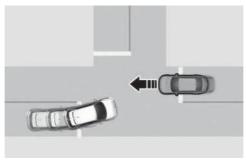
## Basic function



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

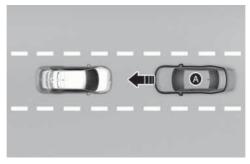
In addition, if equipped with front corner radars, when driving at high speeds, Forward Collision-Avoidance Assist will help detect vehicles in front and adjacent lanes. If a collision is imminent when changing lanes, Forward Collision- Avoidance Assist will apply emergency braking to help prevent a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

## Junction Turning function



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

## **Direct Oncoming function**

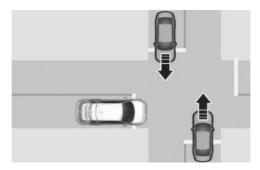


#### [A] Oncoming vehicle

Direct Oncoming function helps reduce the speed at the collision when a vehicle approaching from the opposite side is detected.

## Junction Crossing function

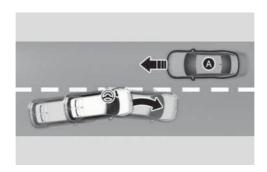




Junction Crossing function can help avoid a collision with oncoming vehicles on the left or right side when crossing an intersection by applying emergency braking.

# Lane-Change Oncoming function



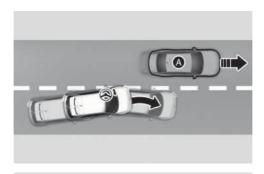


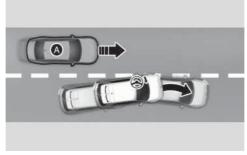
## [A] Oncoming vehicle

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

# Lane-Change Side function







#### [A] Front-side vehicle

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

# **Evasive Steering Assist function**





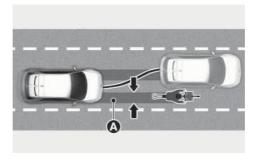
#### Driver steering assist

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

## · Evasive steering assist

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

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



[A] Operating Area of Evasive Steering Assist function

## Detecting sensor





- [A] Front view camera
- [B] Front radar
- [C] Front corner radar (if equipped)
- [D] Rear corner radar (if equipped)

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



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

- Never disassemble the detecting sensor or sensor assembly, or cause any damage to it.
- If the detecting sensors have been replaced or repaired, we recommend that your vehicle be inspected by an authorized HYUNDAI dealer.
- Never install any accessories or stickers on the front windshield, or tint the front windshield.
- Exercise extreme caution to keep the front view camera dry.
- Never place any reflective objects (for example, white paper, mirror) over the dashboard.
- Do not place any objects near the front windshield or install any accessories on the front windshield. It can affect the performance of the defogging and defrosting function of the climate control system, which may prevent the Driver Assistance systems from operating.
- Do not apply license plate frame or objects, such as a bumper sticker, film or a bumper guard, near the front radar cover.
- Do not change the position of the license plate. The front radar's detection and control
  performance may be affected.
- Always keep the front radar and cover clean and free of dirt and debris.
   Use only a soft cloth to wash the vehicle. Do not spray pressurized water directly on the sensor or sensor cover.
- If the radar or around the radar has been damaged or impacted in any way, Forward Collision-Avoidance Assist may not properly operate even though a warning message does not appear on the cluster. we recommend that your vehicle be inspected by an authorized HYUNDAI dealer.
- Use only genuine parts to repair or replace a damaged front radar cover. Do not apply paint to the front radar cover.
- · Vehicles equipped with radar
  - Do not apply license plate frame or objects, such as a bumper sticker, film or a bumper guard, near the front corner radar or rear corner radar.
  - The function may not work properly when the bumper has been replaced, or the surroundings of the front corner radar or rear corner radar has been damaged or paint has been applied.
  - If a trailer, carrier, etc., is installed, it may adversely affect the performance of the rear corner radar or Forward Collision-Avoidance Assist may not operate properly.

## **Forward Collision-Avoidance Assist settings**

## Forward Safety



With the vehicle on, select **Settings** > **Vehicle** > **Driver assistance** > **Driving safety** in the infotainment system to set whether to use each function.

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

## Forward Cross-Traffic Safety

tif equipped



With the vehicle on, select **Settings > Vehicle > Driver assistance > Driving safety > Forward cross-traffic safety** in the infotainment system to turn on Junction Crossing function and deselect to turn off the function.

## Forward/Side Safety





With the vehicle on, select Settings > Vehicle > Driver assistance > Driving safety > Forward/Side safety in the infotainment system to set whether to use each function.

• If "Forward/Side safety" is selected, Forward Collision-Avoidance Assist will warn the driver with a warning message, an audible warning depending on the collision risk levels. Steering assist will be applied depending on the collision risk levels. If "Forward/ Side safety" is deselected, Forward Safety will turn off. The warning light (#2) will illuminate on the cluster.

The driver can monitor Forward Collision-Avoidance Assist On/Off status in the infotainment system. If the warning light \$\pm\$ or \$\pm\$ remains ON when Forward Collision-Avoidance Assist is on, we recommend that your vehicle be inspected by an authorized HYUNDAI dealer.



#### WARNING

When the vehicle is restarted, Forward Collision-Avoidance Assist will always turn on. However, if "Forward/Side safety" is deselected, the driver should always be aware of the surroundings and drive safely.



## CAUTION

- The settings for Forward safety include 'Basic function', 'Junction Turning' and 'Direct Oncoming'. Forward/Side safety include 'Lane-Change Oncoming', 'Lane-change side' and 'Evasive Steering Assist'.
- If "Forward safety" is deselected, Junction Crossing function will not operate even when **Forward safety** or **Forward/side Safety** is selected. (if equipped)

## Forward Safety Warning Timing



With the vehicle on, select Settings > Vehicle > Driver assistance > Driving safety > Forward Safety Warning Timing in the infotainment system to change the initial warning activation time for Forward Collision-Avoidance Assist. The warning time can be set to either "Normal" or "Late"

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



## CAUTION

- Even though "**Normal**" is selected for Warning Timing, if the front vehicle suddenly stops, the warning may seem late.
- · Select "Late" for warning timing when traffic is light and when driving speed is slow.

## Warning methods



With the vehicle on, select **Settings** > **Vehicle** > **Driver assistance** > **Warning methods** in the infotainment system to select following:

- Warning volume: The warning volume can be adjusted.
- Driving safety priority: Your vehicle lowers all other audio volumes when the Driver Assistance system warning sounds.

#### Information

- If you change the Warning methods, the Warning methods of other Driver Assistance systems may change.
- · Warning method will maintain its last setting even if the vehicle is restarted.
- The setting menu may not be available for your vehicle depending on the vehicle features and specifications.

## **Forward Collision-Avoidance Assist operation**

#### Basic function

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

#### **Collision Warning**



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

#### **Emergency Braking**



To warn the driver that emergency braking will be assisted, the "Emergency braking" warning message will appear on the cluster, an audible warning will sound.

Emergency braking will operate under the following conditions.

· Vehicle or powered two-wheeler:

	Driving vehicle	Stopped vehicle	
Weak braking power	About 10-200 km/h (6-124 mph)		
Strong braking power	About 10-130 km/h (6-80 mph)	About 10-75 km/h (6-47 mph) 10-100 km/h (6-62 mph) <sup>*1</sup>	

<sup>\*1:</sup> If Forward Collision-Avoidance Assist judges that avoiding a collision is difficult even by changing the driving lane, braking is assisted more earlier. (if equipped)

· Pedestrian or cyclist:

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



# ♠ CAUTION

- The function operation range may decrease due to the front traffic condition or the surroundings of the vehicle.
- · When driving at night, the powered two-wheeler recognition performance is degraded, so Forward Collision-Avoidance Assist may be temporarily limited or may not work.

Stopping vehicle and ending brake control



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

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The audible warning can be turned off while collision warning or emergency braking is operating by pressing the hazard warning flasher button.

# Junction Turning function

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

# **Collision Warning**



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

## **Emergency Braking**



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

If the driver's seat is on the left side, Junction Turning function will operate only when you turn left. If the driver's seat position is on the right side, the function will operate only when you turn right.

## Stopping vehicle and ending brake control



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

#### Information

When a collision warning is being issued or emergency braking is being engaged, press the hazard warning flasher button to turn off the warning sound.

# **Direct-Oncoming function**

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

#### **Collision Warning**



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

# **Emergency Braking**



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

## Stopping vehicle and ending brake control



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



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

#### Information

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

# Junction Crossing function

#### if equipped

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

#### **Collision Warning**



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

#### **Emergency Braking**



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

Stopping vehicle and ending brake control



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



# **CAUTION**

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

# Information

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

# Lane-Change Oncoming function

# tif equipped

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

#### **Collision Warning**



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

#### **Emergency Steering**



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

# Lane-Change Side function

# tif equipped

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

# **Collision Warning**





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

# **Emergency Steering**





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



# CAUTION

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

#### Information

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

# **Evasive Steering Assist function**

# tif equipped

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

**Emergency Steering (Driver steering assist)** 



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

**Emergency Steering (Evasive steering assist)** 



- To warn the driver that emergency steering will be assisted, Emergency Steering warning light (ﷺ) blinking, the "Emergency steering" message will appear on the instrument cluster, an audible warning will sound.
- The function will operate when your vehicle speed is between about 65-75 km/h (40-47 mph).
- The recognized pedestrian or cyclist moves in the same direction as your vehicle, or in the opposite direction. In addition, there is sufficient space for an evasive movement for your vehicle.

However, this function may not operate for pedestrians or cyclists moving in the horizontal direction.

• If there is high risk of collision with a pedestrian, cyclist or powered two-wheeler in front, and the vehicle speed to operate emergency braking is within the operation range, the steering will be assisted to help prevent collision when there is space to avoid collision in the driving lane.



# **CAUTION**

- The steering wheel may turn automatically when emergency steering is operating.
- Emergency steering will automatically cancel when risk factors disappear. If necessary, the driver must steer the vehicle.
- · Emergency steering may not operate or may cancel during operation if the steering wheel is held tight or steered in the opposite direction.
- When steering is assisted to avoid collision with a vehicle, powered two-wheeler. pedestrian and cyclist, Evasive steering assist will be cancelled if collisions with other objects (vehicles, powered two-wheeler, pedestrians, or cyclists) are expected.
- Evasive steering assist may not operate if space to avoid collision in the driving lane is insufficient.
- When driving at night, the detecting performance of powered two-wheeler may decrease and temporarily limit or disable Front Collision-Avoidance Assist.

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For more information on warning messages, refer to Collision Warning in "Forward Collision-Avoidance Assist operation" section in this chapter.



## WARNING

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

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



#### 🐧 CAUTION

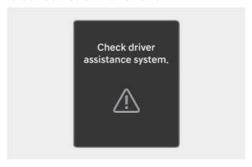
- Depending on the condition of the vehicle, powered two-wheeler, pedestrian and cyclist in front and the surroundings, the speed range to operate Forward Collision-Avoidance Assist may reduce. Forward Collision-Avoidance Assist may only warn the driver, or it may not operate.
- Forward Collision-Avoidance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

#### Information

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

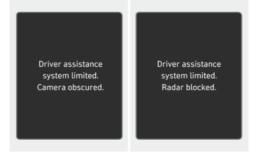
#### Forward Collision-Avoidance Assist malfunction and limitations

#### Forward Collision-Avoidance Assist malfunction



When Forward Collision-Avoidance Assist is not working properly, the "Check driver assistance system." warning message will appear, and the \$\subseteq\$ warning lights will illuminate on the instrument cluster. We recommend that your vehicle be inspected by an authorized HYUNDAI dealer.

### Forward Collision-Avoidance Assist disabled



When the front windshield where the front view camera is located, front radar cover, bumper (if equipped) or sensor is covered with foreign material, such as snow or rain, it can reduce the detecting performance and temporarily limit or disable Forward Collision-Avoidance Assist.

If this occurs the "Driver assistance system limited. Camera obscured." or the "Driver assistance system limited. Radar blocked." warning message, and the 1, 1, or the 1 warning lights will illuminate on the instrument cluster.

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

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



# MARNING

- Even though the warning message or warning light does not appear on the cluster, Forward Collision-Avoidance Assist may not properly operate.
- Forward Collision-Avoidance Assist may not properly operate in an area (for example, open terrain), where any objects are not detected after turning ON the vehicle.
- If the vehicle is turned off and restarted while the camera is blocked or malfunctioned, the condition is maintained. Therefore, Forward Collision-Avoidance Assist is may not operate properly.

#### Limitations of Forward Collision-Avoidance Assist

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

- The detecting sensor or the surroundings are contaminated or damaged
- The temperature around the front view camera is high or low due to surrounding environment
- · The camera lens is contaminated due to tinted, filmed or coated windshield, damaged glass, or sticky foreign material (sticker, bug, etc.) on the glass
- · Moisture is not removed or frozen on the windshield
- Washer fluid is continuously sprayed, or the wiper is on
- · Driving in heavy rain or snow, or thick fog
- The field of view of the front view camera is obstructed by sun glare
- · Street light or light from an oncoming traffic is reflected on the wet road surface, such as a puddle on the road
- An object is placed on the dashboard
- · Your vehicle is being towed
- The surrounding is very bright
- The surrounding is very dark, such as in a tunnel, etc.
- The brightness changes suddenly, for example when entering or exiting a tunnel
- The brightness outside is low, and the headlights are not on or are not bright
- · Driving through steam, smoke or shadow
- Only part of the vehicle, powered two-wheeler, pedestrian or cyclist is detected
- · The vehicle in front is a bus, heavy truck, truck with an unusually shaped cargo, trailer,
- The vehicle or powered two-wheeler in front has no tail lights, tail lights are located unusually, etc.
- The brightness outside is low, and the tail lights are not on or are not bright
- The rear of the front vehicle is small or the vehicle does not look normal, such as when the vehicle is tilted, overturned, or the side of the vehicle is visible, etc.
- The front vehicle's or powered two-wheeler's ground clearance is low or high

- A vehicle, powered two-wheeler, pedestrian or cyclist suddenly cuts in front
- The bumper around the front radar is impacted, damaged or the front radar is out of position
- The temperature around the front radar is high or low
- · Driving through a tunnel or iron bridge
- Driving in vast areas where there are few vehicles or structures (for example, desert, meadow, suburb, etc.)
- Driving near areas containing metal substances, such as a construction zone, railroad, etc.
- A material is near that reflects very well on the front radar, such as a guardrail, nearby vehicle, etc.
- The cyclist in front is on a bicycle made of material that does not reflect on the front radar
- The vehicle or powered two-wheeler in front is detected late
- The vehicle or powered two-wheeler in front is suddenly blocked by an obstacle
- The vehicle or powered two-wheeler in front suddenly changes lane or suddenly reduces speed
- The vehicle or powered two-wheeler in front is bent out of shape
- The front vehicle or powered two-wheeler speed is fast or slow
- The vehicle or powered two-wheeler in front steers in the opposite direction of your vehicle to avoid a collision
- · With a vehicle or powered two-wheeler in front, your vehicle changes lane at low speed
- The vehicle or powered two-wheeler in front is covered with snow
- · You are departing or returning to the lane
- · Unstable driving
- You are on a roundabout and the vehicle in front is not detected.
- · You are continuously driving in a circle
- The vehicle or powered two-wheeler in front has an unusual shape
- The vehicle or powered two-wheeler in front is driving uphill or downhill
- The pedestrian or cyclist is not fully detected, for example, if the pedestrian is leaning over or is not fully walking upright
- The pedestrian or cyclist is wearing clothing or equipment that makes it difficult to detect



The illustration above shows the image sensors are capable of detecting as a vehicle, powered two-wheeler, pedestrian, and cyclist.

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

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

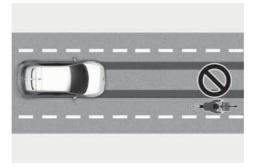
- The temperature around the front corner radar or rear corner radar is high or low
- · A trailer or carrier is installed around the rear corner radar
- The front corner radar or rear corner radar is covered with snow, rain, dirt, etc.
- The bumper around the front corner radar or rear corner radar is covered with objects, such as a bumper sticker, bumper guard, bike rack, etc.
- The bumper around the front corner radar or rear corner radar is impacted, damaged or the radar is out of position

- The front corner radar or rear corner radar is blocked by other vehicles, walls or pillars
- · Driving on a highway (or motorway) ramp
- Driving on a road where the quardrail or wall is in double structure
- The other vehicle or powered two-wheeler drives very close behind your vehicle, or the other vehicle or powered two-wheeler passes by your vehicle in close proximity
- The speed of the other vehicle or powered two-wheeler is very fast that it passes by your vehicle in a short time
- Your vehicle passes by the other vehicle or powered two-wheeler
- Your vehicle has started at the same time as the vehicle or powered two-wheeler next to you and has accelerated
- The vehicle or powered two-wheeler in the next lane moves two lanes away from you, or when the vehicle or powered two-wheeler two lanes away moves to the next lane from you
- A powered two-wheeler or bicycle is detected
- · A vehicle such as a flat trailer is detected
- · A big vehicle such as a bus or truck is detected
- A small moving obstacle such as a pedestrian, animal, shopping cart or a baby stroller is detected
- A vehicle with low height such as a sports car is detected
- The lane is difficult to see due to foreign material, such as rain, snow, dust, sand, oil and water puddles
- The color of the lane marking is not distinguishable from the road or the road surface is wet
- There are markings on the road near the lane or the markings on the road looks similar to the lane markings
- The shadow is on the lane marking by a median strip, trees, guardrail, noise barriers,
- The lane number increases or decreases, or the lane markings are crossing
- There are more than two lane markings on the road
- The lane markings are complicated or a structure substitutes for the lines, such as a construction area
- There are road markings, such as zigzag lanes, crosswalk markings and road signs
- The lane suddenly disappears, such as at the intersection
- The lane is very wide or narrow
- There is a curb or road edges without a lane
- The vehicle in front is driving with one side on the lane marking
- · The distance to the front vehicle is extremely short
- Driving on the left or right side of the median bus lane or on the median bus lane

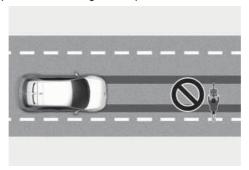
### **Limitations of Evasive Steering Assist**

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

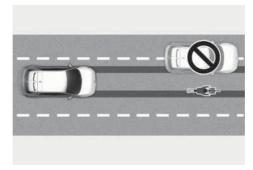
• The pedestrians or cyclists are positioned outside of the operating area.



• The pedestrians or cyclists are moving laterally.

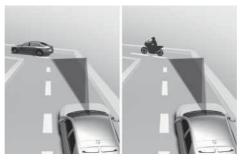


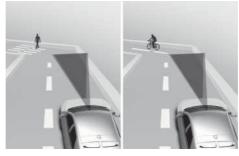
• The pedestrians or cyclists are positioned inside of the operating area, but there is not enough space available for evasive steering.





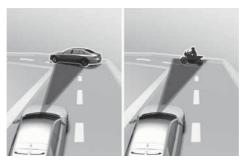
## · Driving on a curved road





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

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





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

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

# · Driving on an inclined road









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

This may result in unnecessary warning, braking assist or steering assist or no warning, braking assist or steering assist when necessary.

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

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

# · Changing lanes



[A] Your vehicle

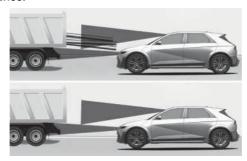
[B] Lane changing vehicle

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



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

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



If the vehicle in front of you has cargo that extends rearward from the cab, or when
the vehicle in front of you has higher ground clearance, additional special attention
is required. Forward Collision-Avoidance Assist may not be able to detect the cargo
extending from the vehicle. In these instances, you must maintain a safe braking

distance from the rearmost object, and if necessary, steer your vehicle and depress the brake pedal to reduce your driving speed in order to maintain distance.



# MARNING

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

#### Information

For limitations in the driver's blind spot areas and precautions for the rear corner radars. refer to the "Blind-Spot Collision-Avoidance Assist (BCA)" section in this chapter.

# Lane Keeping Assist (LKA)

# tif equipped

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

# Detecting sensor



#### [A] Front view camera

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

See the illustration above for the detailed location of the detecting sensor.



# CAUTION

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

# **Lane Keeping Assist settings**

# Lane Safety



With the vehicle on, select Settings > Vehicle > Driver assistance > Driving safety > Lane safety in the infotainment system to set whether to use each function.

If Lane safety is selected, Lane Keeping Assist automatically assists the driver's steering when lane departure is detected to help prevent the vehicle from moving out of its lane. If Lane safety is deselected. Lane Keeping Assist turns off and the yellow /=\ indicator light appears on the cluster.



#### MARNING

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

# Warning methods



With the vehicle on, select Settings > Vehicle > Driver assistance > Warning methods in the infotainment system to select following:

- Warning volume: The warning volume can be adjusted.
- Driving safety priority: Your vehicle lowers all other audio volumes when the Driver Assistance system warning sounds.

#### Information

- If you change the Warning methods, the Warning methods of other Driver Assistance systems may change.
- · Warning method will maintain its last setting even if the vehicle is restarted.
- The setting menu may not be available for your vehicle depending on the vehicle features and specifications.

# **Lane Keeping Assist operation**

# Turning Lane Keeping Assist On/Off



- · Whenever the vehicle is turned on, Lane Keeping Assist will always turn on. The gray indicator light will illuminate on the cluster. When Lane Keeping Assist is on, press and hold the Lane Driving Assist (/⊕\) button to turn off the function.
- When Lane Keeping Assist turns off, the /=\ indicator turns yellow.

## Information

- When Lane Keeping Assist is ready to operate, the /a\ indicator turns gray on the cluster.
- When Lane Keeping Assist is operating, the /a\ inidcator turns green on the cluster.

# Warning and control

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



Right



#### Lane Departure Warning

- To warn the driver that the vehicle is departing from the projected lane in front, the green /=\(\) indicator light blinks on the cluster, the lane line blinks on the cluster depending on which direction the vehicle is veering, and an audible warning sounds.
- Lane Keeping Assist operates when your vehicle speed is between about 60-200 km/h (40-120 mph).

#### Lane Keeping Assist

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

## Hands-off warning



If the driver takes their hands off the steering wheel for several seconds, the "**Keep hands on steering wheel**" warning message appears on the cluster, and an audible warning sounds in stages.

# **♠** W

#### WARNING

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

#### Information

Even though the steering is assisted by Lane Keeping Assist, the driver may control the steering wheel.

The steering wheel may feel heavier or lighter when the steering wheel is assisted by Lane Keeping Assist than when it is not.

- For more information on instrument cluster settings, refer to the "Cluster display" section in chapter 4.
- · When lane markings (or road edges) are detected, the lane lines on the cluster changes from gray to white and the green /=\ indicator light illuminates.





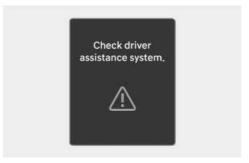
Lane detected



- The images and colors in the instrument cluster may differ depending on the cluster type or theme selected in the infotainment system.
- When Highway Lane Change Assist is on, the lane lines on the cluster may change to green.

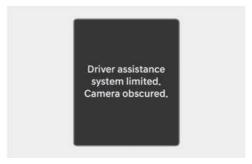
## **Lane Keeping Assist malfunction and limitations**

# Lane Keeping Assist malfunction



When Lane Keeping Assist is not working properly, the "Check driver assistance system" warning message and yellow Lane Keeping Assist (/=\) warning light appears on the cluster. If this occurs, we recommend that your vehicle be inspected by an authorized HYUNDAI dealer.

## Lane Keeping Assist disabled



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

If this occurs, the "**Driver assistance system limited. Camera obscured.**" warning message and the master (<u>A</u>) warning light or Lane Keeping Assist (<u>/=\</u>) warning light appears on the instrument cluster.

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

If Lane Keeping Assist does not operate properly after it is removed, we recommend that your vehicle be inspected by an authorized HYUNDAI dealer.



#### WARNING

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

# Limitations of Lane Keeping Assist

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

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

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

# **MARNING**

Take the following precautions when using Lane Keeping Assist:

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

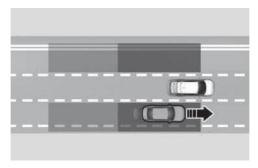
# **Blind-Spot Collision-Avoidance Assist (BCA)**

tif equipped

Blind-Spot Collision-Avoidance Assist detects approaching vehicles in the driver's blind spot areas and warn you of a possible collision with a warning light and a warning sound.

If there is a collision risk when exiting a parallel space, Blind-Spot Collision-Avoidance Assist may assist with braking your vehicle to help avoid a collision.

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

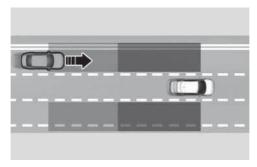




# **CAUTION**

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

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

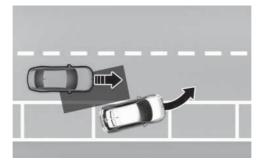




# CAUTION

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

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



# Detecting sensor



[A] Rear corner radar

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



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

- Never disassemble the detecting sensor assembly, or cause any damage to it.
- If the rear corner radar or near the radar has been damaged or impacted in any
  way, even though the warning message does not appear on the cluster, Blind-Spot
  Collision Avoidance Assist may not operate properly. We recommend that your vehicle
  be inspected by an authorized HYUNDAI dealer.
- If the rear corner radars have been replaced or repaired, we recommend that your vehicle be inspected by an authorized HYUNDAI dealer.
- Use only genuine parts to repair the rear bumper where the rear corner radar is located.
- Rear bumper genuine parts with rear corner radars have proven their performance.
   Replacing or painting the rear bumper may result in poor performance of Blind-Spot
   Collision Avoidance Assist. When the parts need to be replaced or modified, make sure to use qualified products.
- Do not apply license plate frame or objects, such as a bumper sticker, film or a bumper guard near the rear corner radar.
- Blind-Spot Collision Avoidance Assist may not work properly if the bumper has been replaced, or the surroundings of the rear corner radar have been damaged or paint has been applied.
- If a trailer, carrier, etc., is installed, it may adversely affect the performance of the rear corner radar or Blind-Spot Collision Avoidance Assist may not operate.

# **Blind-Spot Collision-Avoidance Assist settings**

# Blind-spot safety



With the vehicle on, select **Settings > Vehicle > Driver assistance > Driving safety > Blind-spot safety** in the infotainment system to set whether to use each function.

• If "Blind-spot safety" is selected, Blind-Spot Collision Avoidance Assist warns the driver with a warning message, an audible warning depending on the collision risk levels.

Braking assist is applied for parking exit depending on the collision risk levels.



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

If you select "Blind-spot safety", warning light on the side view mirror will blink for three seconds. In addition, if the vehicle is turned on, when "Blind-spot safety" is selected, the warning light on the side view mirror blinks for three seconds.



#### MARNING

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

Information

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

# Warning methods



With the vehicle on, select **Settings** > **Vehicle** > **Driver assistance** > **Warning methods** in the infotainment system to select following:

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

#### Information

- If you change the Warning methods, the Warning methods of other Driver Assistance systems may change.
- · Warning method will maintain its last setting even if the vehicle is restarted.
- The setting menu may not be available for your vehicle depending on the vehicle features and specifications.

### **Blind-Spot Collision-Avoidance Assist operation**

#### Driving-Warning



To warn the driver a vehicle is detected, the warning light on the side view mirror illuminates. Vehicle detection operates under following conditions.

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

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

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

Collision warning operates under following conditions.

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



#### MARNING

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

If the driver's seat is on the left side, the collision warning may occur when you turn left. Maintain a proper distance with the vehicles in the left lane. If the driver's seat is on the right side, the collision warning may occur when you turn right. Maintain a proper distance with the vehicles in the right lane.

The images and colors in the instrument cluster may differ depending on the cluster type or theme selected in the infotainment system.

### Collision-avoidance assist (while parallel parking exit)



- To warn the driver of a collision, the warning light on the side view mirror will blink and a warning message will appear on the instrument cluster. At the same time, an audible warning will sound.
- Emergency braking will be assisted to help prevent collision with the vehicle in the blind spot area.
- Blind-Spot Collision-Avoidance Assist will operate when your vehicle speed is below 3 km/h (2 mph) and the speed of the vehicle in the blind spot area is above 5 km/h (3 mph).
- When the vehicle is stopped due to emergency braking, the "**Drive carefully**" warning message will appear on the cluster.
  - For your safety, the driver should depress the brake pedal immediately and check the surroundings.



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

### WARNING

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

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



#### WARNING

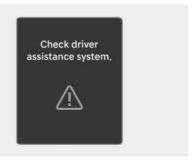
The brake control may not operate properly depending on the status of ESC (Electronic Stability Control).

There will only be a warning when:

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

### **Blind-Spot Collision-Avoidance Assist malfunction and limitations**

#### Blind-Spot Collision-Avoidance Assist malfunction



When Blind-Spot Collision Warning is not working properly, the "Check driver assistance system." warning message will appear on the instrument cluster for several seconds, and the master (A) warning light will appear on the instrument cluster. If this occurs, we recommend that your vehicle be inspected by an authorized HYUNDAI dealer.



When the side view mirror warning light is not working properly, the "Check side view mirror warning light" (or "Check outside mirror warning icon") warning message will appear on the instrument cluster for several seconds, and the master (小) warning light will appear on the instrument cluster. If this occurs, we recommend that your vehicle be inspected by an authorized HYUNDAI dealer.

## Blind-Spot Collision-Avoidance Assist disabled



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

If this occurs, the "Driver assistance system limited. Radar blocked." warning message will appear on the cluster.

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

If Blind-Spot Collision-Avoidance Assist does not operate properly after it is removed, we recommend that your vehicle be inspected by an authorized HYUNDAI dealer.



#### WARNING

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



## **CAUTION**

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

### Limitations of Blind-Spot Collision-Avoidance Assist

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

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

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

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

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

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

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

#### Information

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



### Driving on a curved road



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

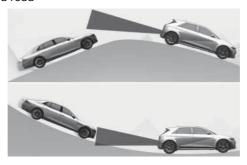
Always pay attention to road and driving conditions while driving.



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

Always pay attention to road and driving conditions while driving.

· Driving on an inclined road



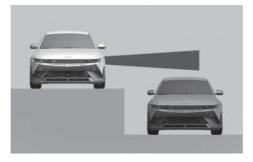
Blind-Spot Collision-Avoidance Assist may not operate properly when driving on a slope. The function may not detect the vehicle in the next lane or may incorrectly detect the ground or structure. Always pay attention to road and driving conditions while driving.

Driving where the road is merging/dividing



Blind-Spot Collision-Avoidance Assist may not operate properly when driving where the road merges or divides. The function may not detect the vehicle in the next lane. Always pay attention to road and driving conditions while driving.

· Driving where the heights of the lanes are different



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

Always pay attention to road and driving conditions while driving.

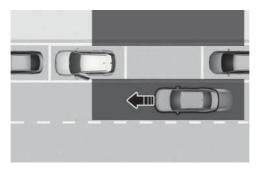


### MARNING

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

## Safe Exit Warning (SEW)

tif equipped



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



## **CAUTION**

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

### Detecting sensor



#### [A] Rear corner radar

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



## **CAUTION**

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

### Safe Exit Warning settings

#### Safe Exit Warning



With the vehicle on, select Settings > Driver assistance > Driving safety > Safe exit in the infotainment system to turn on Safe Exit Warning and deselect to turn off the function.



### 🛝 WARNING

The driver should always be aware of his or her surroundings. If "Safe exit" is deselected, Safe Exit Warning cannot assist you.

#### Information

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

## Warning methods



With the vehicle on, select Settings > Vehicle > Driver assistance > Warning methods in the infotainment system to select following:

- Warning volume: The warning volume can be adjusted.
- Driving safety priority: Your vehicle lowers all other audio volumes when the Driver Assistance system warning sounds.

#### Information

- If you change the Warning methods, the Warning methods of other Driver Assistance systems may change.
- Warning method will maintain its last setting even if the vehicle is restarted.
- The setting menu may not be available for your vehicle depending on the vehicle features and specifications.

## **Safe Exit Warning operation**

### Safe Exit Warning

Collision warning when exiting vehicle





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

# **MARNING**

Take the following precautions when using Safe Exit Warning:

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

#### Information

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

### Safe Exit Warning malfunction and limitations

### Safe Exit Warning malfunction



When Safe Exit Warning is not working properly, the "Check driver assistance system." warning message will appear on the cluster for several seconds, and the master warning light (A) will appear on the cluster. If this occurs, we recommend that your vehicle be inspected by an authorized HYUNDAI dealer.



When the side view mirror warning light is not working properly, the "Check side view mirror warning light" (or "Check outside mirror warning icon") warning message will appear on the cluster for several seconds, and the master warning light (A) will appear on the cluster. If this occurs, we recommend that your vehicle be inspected by an authorized HYUNDAI dealer.

### Safe Exit Warning disabled



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

If this occurs, the "Driver assistance system limited. Radar blocked." warning message will appear on the cluster.

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

If Safe Exit Warning does not operate properly after it is removed, we recommend that your vehicle be inspected by an authorized HYUNDAI dealer.



### WARNING

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



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

### Limitations of Safe Exit Warning

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

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

#### Information

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

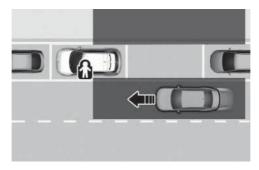


#### WARNING

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

## Safe Exit Assist (SEA)

tif equipped



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



When the electronic child safety lock (1) button is in the LOCK position and an approaching vehicle from the rear area is detected, the electronic child safety lock button will not unlock even if the driver presses the button to prevent the rear doors from opening.



### **CAUTION**

- Warning timing may vary depending on the speed of the approaching vehicle.
- Do not use Safe Exit Assist instead of the electronic child safety lock button. To protect rear seat passengers, use the electronic child safety lock button. For more information on, refer to the "Door locks" section in chapter 5.

### Detecting sensor



#### [A] Rear corner radar

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



## **CAUTION**

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

## **Safe Exit Assist settings**

#### Safe Exit Assist



With the vehicle on, select Settings > Driver assistance > Driving safety > Safe exit from the Settings menu to turn on Safe Exit Assist and deselect to turn off the function.



#### WARNING

The driver should always be aware of the surroundings. If "Safe exit" is deselected, Safe Exit Assist cannot assist you.

Information

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

### Warning methods



With the vehicle on, select Settings > Vehicle > Driver assistance > Warning methods in the infotainment system to select following:

- Warning volume: The warning volume can be adjusted.
- Driving safety priority: Your vehicle lowers all other audio volumes when the Driver Assistance system warning sounds.

#### Information

- If you change the Warning methods, the Warning methods of other Driver Assistance systems may change.
- Warning method will maintain its last setting even if the vehicle is restarted.
- The setting menu may not be available for your vehicle depending on the vehicle features and specifications.

#### Safe Exit Assist operation

## Warning and control

Collision warning when exiting vehicle





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

Safe Exit Assist linked with Electronic child safety lock



- · When Electric child safety lock is operating and an approaching vehicle from the rear area is detected, the rear doors cannot be unlocked even if the driver tries to unlock the rear doors using the electronic child safety lock button. The warning light on the outside rearview will blink and the "Check traffic in the blind spot, then try again" warning message will appear on the instrument cluster.
- Safe Exit Assist will warn the driver when vehicle speed is below 3 km/h (2 mph) and the speed of the approaching vehicle from the rear is above 6 km/h (4 mph).
- For more information on electric child safety lock (1) button, refer to the "Electronic child safety lock" section in chapter 5.



### **CAUTION**

If the driver presses the electronic child lock (🔊 button again within 10 seconds after the warning message appears, Safe Exit Assist judges that the driver has unlocked the doors acknowledging the rear status. The electronic child safety lock will turn off (button indicator OFF) and the rear doors will unlock. Always check the surroundings before turning off the electronic child safety lock button.

Information

If a rear door is opened from the outside, it will open regardless of Safe Exit Assist operation.



#### MARNING

Take the following precautions when using Safe Exit Assist:

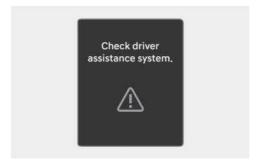
- For your safety, change the Settings after parking the vehicle at a safe location.
- If any other system's warning message appears or audible warning is generated, Safe Exit Assist warning message may not be displayed and audible warning may not be generated.
- You may not hear the warning sound of Safe Exit Assist if the surroundings are noisy.
- Safe Exit Assist does not operate in all situations and cannot prevent all collisions.
- Safe Exit Assist may warn the driver late or may not warn the driver depending on the road and driving conditions. Always check vehicle surroundings.
- The driver and passengers are responsible for accidents that occur while exiting the vehicle. Always check the surroundings before you exit the vehicle.
- Never deliberately operate Safe Exit Assist. Doing so may lead to serious injury or death.

#### Information

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

#### Safe Exit Assist malfunction and limitations

#### Safe Exit Assist malfunction

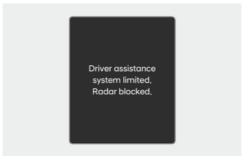


When Safe Exit Assist is not working properly, the "Check driver assistance system." warning message will appear on the instrument cluster for several seconds, and the master (A) warning light will illuminate on the instrument cluster. But, it is not a malfunction. If this occurs, we recommend that your vehicle be inspected by an authorized HYUNDAI dealer.



When the outside rearview warning light is not working properly, the "Check side view mirror warning light" (or "Check outside mirror warning icon") warning message will appear on the instrument cluster for several seconds, and the master (A) warning light will illuminate on the instrument cluster. If this occurs, we recommend that your vehicle be inspected by an authorized HYUNDAI dealer.

#### Safe Exit Assist disabled



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

If this occurs, the "**Driver assistance system limited. Radar blocked**" warning message will appear on the instrument cluster, and the master (A) warning light will illuminate on the instrument cluster. But, it is not a malfunction.

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

If Safe Exit Assist does not operate properly after it is removed, we recommend that your vehicle be inspected by an authorized HYUNDAI dealer.



#### WARNING

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



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

#### Limitations of Safe Exit Assist

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

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

#### Information

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



### WARNING

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

## **Manual Speed Limit Assist (MSLA)**



- 1. Speed Limit indicator
- 2. Set speed

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

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

### **Manual Speed Limit Assist operation**

### Setting speed limit

1 Press and hold the Driving Assist (♠) button at the desired speed. The Speed Limit (ੴLIMIT) indicator will appear on the cluster.



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

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



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

If you would like to drive over the preset speed limit, depress the accelerator pedal beyond the pressure point to activate the kickdown function.

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



### Information

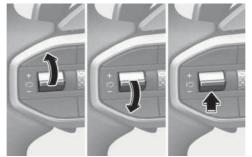
When the accelerator pedal is not depressed beyond the pressure point, vehicle speed will maintain within the speed limit.

### Temporarily pausing Manual Speed Limit Assist



Press the II a switch to temporarily pause the set speed limit. The set speed limit will turn off but the Speed Limit (O'LIMIT) indicator will stay on.

### Resuming Manual Speed Limit Assist



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

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

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

## Turning off Manual Speed Limit Assist



Press the Driving Assist (A) button to turn Manual Speed Limit Assist off. The Speed Limit (білыт) indicator will go off.

Always press the Driving Assist (A) button to turn Manual Speed Limit Assist off when not in use.



### **MARNING**

Take the following precautions when using Manual Speed Limit Assist:

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

## **Intelligent Speed Limit Assist (ISLA)**

#### tif equipped

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



#### CAUTION

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

### Detecting sensor



#### [A] Front view camera

See the illustration above for the detailed location of the detecting sensor.



#### CAUTION

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

### **Intelligent Speed Limit Assist settings**

### Speed Limit



With the vehicle on, select or deselect Settings > Vehicle > Driver assistance > Speed limit from the infotainment system to set whether to use each function.

- Select country: When the navigation system is not available, you can manually select the country to set the speed limit.
- Speed limit assist: Intelligent Speed Limit Assist will inform the driver of speed limit and additional road signs, and warn the driver if the vehicle speed is faster than the speed limit. In addition, Intelligent Speed Limit Assist will inform the driver to change set speed of Manual Speed Limit Assist and/or Smart Cruise Control to help the driver stay within the speed limit.
- Speed limit warning: Intelligent Speed Limit Assist will inform the driver of speed limit. In addition, Intelligent Speed Limit Assist will warn the driver when the vehicle is driven faster than the speed limit.
- Speed limit information: Intelligent Speed Limit Assist will inform the driver of speed limit and additional road signs.
- Off: Intelligent Speed Limit Assist will turn off. The warning light is displayed.

#### Information

Press and hold the Mute (%) button on the steering wheel to change your setting from Speed limit assist (or Speed limit warning) to Speed limit information.

You can also change your setting from Speed limit information (or Off) to Speed limit assist by making long press. (if equipped)



#### WARNING

- When the vehicle is restarted, Intelligent Speed Limit Assist will always turn on. However, if "Off" and the vehicle is restarted, "SLW (Speed Limit Warning)" is selected.
- For your safety, only change the Settings after parking the vehicle at a safe location.
- Intelligent Speed Limit Assist does not substitute for proper and safe driving. It is the responsibility of the driver to always drive safely and be aware of unexpected and sudden situations. Pay attention to the road conditions at all times.

### Warning methods



With the vehicle on, select **Settings > Vehicle > Driver assistance > Warning methods** from the infotainment system to select following:

• Warning volume: The warning volume can be adjusted.

#### Information

- If you change the Warning methods, the Warning methods of other Driver Assistance systems may change.
- Warning method will maintain its last setting even if the vehicle is restarted.
- The setting menu may not be available for your vehicle depending on the vehicle features and specifications.

#### **Intelligent Speed Limit Assist operation**

### Warning and control

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

#### Displaying speed limit



Speed limit information is displayed on the instrument cluster.

#### Information

- If speed limit information of the road cannot be recognized, '---' sign will be displayed.
   Please refer to Limitations of Intelligent Speed Limit Assist section, if the road signs are difficult to recognize.
- Intelligent Speed Limit Assist provides additional road sign information in addition to speed limit. The additional road sign information provided may vary according to your country.
- Supplementary sign displayed under the speed limit or overtaking restriction sign means the conditions under which the signs must be followed. If the supplementary sign is not recognized, it will be displayed as blank.
- The images and colors in the instrument cluster may differ depending on the cluster type or theme selected from the instrument cluster.

#### Warning overspeed



When driving at a speed higher than the displayed speed limit, the red speed limit indicator will blink and warning sounds.

#### Changing set speed





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

Set Speed Auto Change (Navigation equipped)



Manual Speed Limit Assist or Smart Cruise Control assists the vehicle to adjust its speed according to the speed limit. When the cruising speed is set as same as the speed limit, the vehicle automatically adjusts its speed if the speed limit changes. The function operates on the road which has a speed limit of 70 km/h (45 mph) or higher. When the function is active, the cruising speed on the instrument cluster appears in green.



### MARNING .

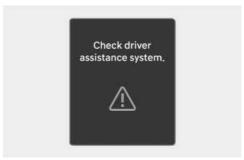
- Even after changing the set speed according to the speed limit of the road, the vehicle can still be driven over the speed limit. If necessary, depress the brake pedal to reduce your driving speed.
- If the speed limit of the road is under 30 km/h (20 mph), the set speed change function will not work.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

Information

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

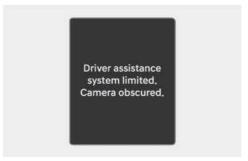
### **Intelligent Speed Limit Assist malfunction and limitations**

### Intelligent Speed Limit Assist malfunction



When Intelligent Speed Limit Assist is not working properly, the "Check driver assistance system." warning message will appear on the instrument cluster for several seconds, and the master (A) warning light and speed limit (A) warning light will appear on the instrument cluster. If this occurs, we recommend that your vehicle be inspected by an authorized HYUNDAI dealer.

### Intelligent Speed Limit Assist disabled



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

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

If Intelligent Speed Limit Assist does not operate properly after it is removed, we recommend that your vehicle be inspected by an authorized HYUNDAI dealer.

# **MARNING**

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

### Limitations of Intelligent Speed Limit Assist

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

- · The road sign is contaminated or indistinguishable
- The road sign is difficult to see due to bad weather, such as rain, snow, fog, etc.
- The road sign is not clear or damaged
- · The road sign is partially obscured by surrounding objects or shadow
- · The road signs do not conform to the standard
- The text or illustration on the road sign is different from the standard
- The road sign is installed between the main line and the exit road or between diverging
- There is no conditional road signs on the road sign located on the exit road
- · A sign is attached to another vehicle
- The distance between the vehicle and the road signs is too far
- · The vehicle encounters illuminant road signs
- Intelligent Speed Limit Assist incorrectly recognizes numbers or illustrations in the street signs or other signs as the speed limit
- · A road sign near the road you are driving is detected
- The other traffic sign or signboards are alongside the road sign
- Multiple signs are installed close together
- · The minimum speed limit sign is misrecognized
- · The minimum speed limit sign is on the road
- The brightness changes suddenly, for example when entering or exiting a tunnel or passing under a bridge
- Headlights are not used or the brightness of the headlights are weak at night or in the tunnel
- Road signs are difficult to recognize due to the reflection of sunlight, street lights, or oncoming vehicles
- The navigation information or GPS information contain errors.
- The driver does not follow the guide of the navigation.
- The driver is driving on a new road that is not in the navigation system yet.
- The field of view of the front view camera is obstructed by sun glare
- · Driving on a road that is sharply curved or continuously curved
- Driving through speed bumps, or driving up and down or left to right on steep inclines
- The vehicle is shaking heavily

- Driving on a newly opened road
- · Driving through a construction area
- The navigation software is being updated while driving
- · The navigation is restarted while driving



### WARNING \_

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

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

## **Driver Attention Warning (DAW)**



### Inattentive Driving Warning

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

### Leading vehicle departure alert function

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

### Detecting sensor



#### [A] Front view camera

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

See the illustration above for the detailed location of the detecting sensor.



#### CAUTION

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

### **Driver Attention Warning settings**

#### Leading vehicle departure alert



With the vehicle on, select or deselect **Settings** > **Vehicle** > **Driver assistance** > **DAW** (**Driver Attention Warning**) and then enable **Leading vehicle departure alert** in the infotainment system to set whether to use each function.

• If 'Leading vehicle departure alert' is selected, the function will inform the driver when a detected vehicle in front departs from a stop.

#### **Driver Attention Warning operation**

### Inattentive Driving Warning

The basic function of Driver Attention Warning is to warn the driver "Consider taking a break".

Taking a break



- The "Consider taking a break" message will appear and the inattentive driving (b) warning light will blink on the cluster with a warning sound to suggest that the driver take a break, when the driver's attention level is below a certain level.
- Driver Attention Warning will not suggest a break when the total driving time is shorter than 4 minutes or 4 minutes has not passed after the last break was suggested.



#### WARNING

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



### CAUTION

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

#### Information

For more information on instrument cluster settings, refer to the "Cluster display" section in chapter 4.

### Leading Vehicle Departure Alert function



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



#### WARNING

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



### CAUTION

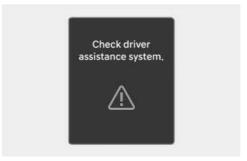
- · Leading Vehicle Departure Alert is a supplemental function and may not alert the driver whenever the front vehicle departs from a stop.
- Always check the front of the vehicle and road conditions before departure.

### Information

The images and colors in the instrument cluster may differ depending on the cluster type or theme selected in the infotainment system.

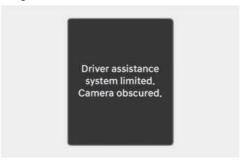
### **Driver Attention Warning malfunction and limitations**

### Driver Attention Warning malfunction



When Driver Attention Warning is not working properly, the "Check driver assistance system." warning message will appear on the cluster for several seconds, and the master (人) warning light and the driver's attention (古) warning light will appear on the instrument cluster. If this occurs, we recommend that your vehicle be inspected by an authorized HYUNDAI dealer.

### Driver Attention Warning disabled



When the front windshield where the front view camera is located is covered with foreign material, such as snow or rain, it can reduce the detecting performance and temporarily limit or disable Driver Attention Warning. If this occurs, the warning message, the master (杰) warning light, and the inattentive driving (齿) warning light will appear on the instrument cluster. Driver Attention Warning will operate properly when snow, rain or foreign material is removed. If Driver Attention Warning does not operate properly after it is removed, we recommend that your vehicle be inspected by an authorized HYUNDAI dealer.



#### MARNING

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

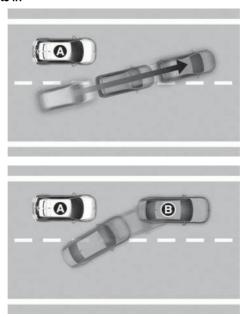
### Limitations of Driver Attention Warning

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

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

#### **Leading Vehicle Departure Alert function**

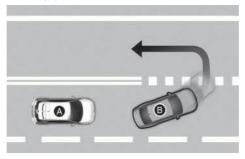
· When the vehicle cuts in



- [A] Your vehicle
- [B] Front vehicle

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

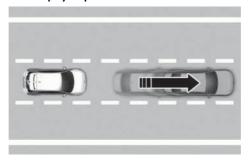
#### · When the vehicle ahead sharply steers



- [A] Your vehicle
- [B] Front vehicle

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

· When the vehicle ahead abruptly departures



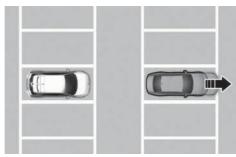
If the vehicle in front abruptly departures, Leading Vehicle Departure Alert may not operate properly.

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



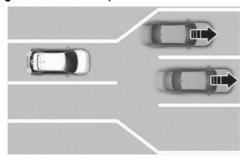
If there is a pedestrian(s) or bicycle(s) in between you and the vehicle in front, Leading Vehicle Departure Alert may not operate properly.

#### · When in a parking lot



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

· When driving at a tollgate or intersection, etc.



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



### MARNING

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

#### Information

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

# **Blind-Spot View Monitor (BVM)**

if equipped

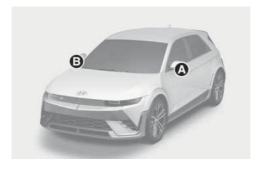


Right



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

### Detecting sensor



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

See the illustration above for the detailed location of the detecting sensors.

#### **Blind-Spot View Monitor settings**

#### Setting features

With the vehicle on, select **Settings > Vehicle > Driver assistance > Driving safety** and then enable **Blind-spot view monitor** in the infotainment system to turn on the Blind-Spot View Monitor feature.

#### **Blind-Spot View Monitor operation**

#### Operating switch



#### Turn signal switch

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

### Blind-Spot View Monitor

#### **Operating conditions**

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

#### Off conditions

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

# **Blind-Spot View Monitor malfunction**

When Blind-Spot View Monitor is not working properly, or the cluster display flickers, or the camera image does not display properly, we recommend that your vehicle be inspected by an authorized HYUNDAI dealer.

# **MARNING**

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

# **Cruise Control (CC)**

### tif equipped



- 1. Cruise indicator
- 2. Set speed

Cruise Control will allow you to drive at speeds above 30 km/h (20 mph) without depressing the accelerator pedal.

#### **Cruise Control operation**

### Setting speed

1 Accelerate to the desired speed, which must be more than 30 km/h (20 mph).



- 2 Press the Driving Assist (A) button at the desired speed. The set speed and Cruise (SCRUISE) indicator will illuminate on the instrument cluster.
- 3 Release the accelerator pedal.
  Vehicle speed will maintain the set speed even when the accelerator pedal is not depressed.

#### Information

- The vehicle may slightly slow down or speed up while driving uphill or downhill.
- The Driving Assist button symbol may vary depending on your vehicle option.

#### To increase speed



- Push the + switch up and release it immediately. The set speed will increase by 1 km/h (1 mph) each time the switch is operated in this manner.
- Push the + switch up and hold it while monitoring the set speed on the instrument cluster. The set speed will increase to the nearest multiple of 10 km/h(5 mph) at first, and then increase by 10 km/h (5 mph) each time the switch is operated in this manner.

Release the switch when the desired speed is shown and the vehicle will accelerate to that speed.

#### To decrease speed



- Push the switch down and release it immediately. The set speed will decrease by 1 km/h (1 mph) each time the switch is operated in this manner.
- Push the switch down and hold it while monitoring the set speed on the instrument cluster. The set speed will decrease to the nearest multiple of 10 km/h(5 mph) at first, and then decrease by 10 km/h (5 mph) each time the switch is operated in this manner.

Release the switch at the speed you want to maintain.

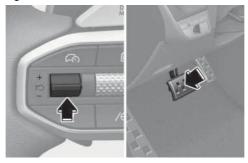
# Accelerating temporarily

If you want to speed up temporarily when Cruise Control is on, depress the accelerator pedal.

To return to the set speed, take your foot off the accelerator pedal.

If you push the + switch up or - switch down at increased speed, the set speed will be set to the current increased speed.

### To temporarily pausing Cruise Control



Cruise Control will be paused when:

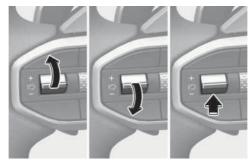
- · Depressing the brake pedal.
- Pushing the II > button.
- Shifting the gear to N (Neutral).
- Decreasing vehicle speed to less than about 25 km/h (15 mph).
- Increasing vehicle speed to more than about 210 km/h (130 mph)
- Operating the electronic parking brake system (EPB).
- ESC (Electronic Stability Control) is operating.

The set speed will turn gray and the Cruise (OCRUISE) indicator will stay on.

#### NOTICE

If Cruise Control pauses during a situation that is not mentioned, we recommend that you have the vehicle inspected by an authorized HYUNDAI dealer.

# Resuming Cruise Control



Operate the +, - or II > switch.

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

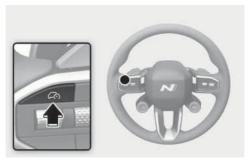
If you press the II a switch, vehicle speed will resume to the preset speed.

The vehicle speed must be above 30 km/h (20 mph) for Cruise Control to resume.



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

# Turning off Cruise Control



Press the Driving Assist (A) button to turn Cruise Control off. The Cruise (MCRUISE) indicator will go off.

Always press the Driving Assist ((C)) button to turn Cruise Control off when not in use.

Information

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

# WARNING

Take the following precautions when using Cruise Control:

- Always set the vehicle speed to the speed limit in your country.
- Keep Cruise Control off when the system is not in use, to avoid inadvertently setting a speed. Check that the Cruise (ECRUISE) indicator is off.
- Cruise Control does not substitute for proper and safe driving. It is the responsibility of the driver to always drive safely and should always be aware of unexpected and sudden situations from occurring.
- · Always drive cautiously to prevent unexpected and sudden situations from occurring. Pay attention to the road conditions at all times.
- · Do not use Cruise Control when it may be unsafe to keep the vehicle at a constant speed:
  - When driving in heavy traffic, or when traffic conditions make it difficult to drive at a constant speed
  - When driving on rainy, icy, or snow-covered roads
  - When driving on hilly or windy roads
  - When driving in windy areas
  - When driving with limited view (possibly due to bad weather, such as fog, snow, rain and sandstorm)
- Do not use Cruise Control when towing a trailer.

# **Smart Cruise Control (SCC)**

### tif equipped

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

### Overtaking Acceleration Assist

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

#### Based on driving style

### tif equipped

Smart Cruise Control will operate based on the driver's driving style, such as inter-vehicle distance, acceleration, reaction speed.

### Detecting sensor



- [A] Front view camera
- [B] Front radar
- [C] Front corner radar (if equipped)

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

See the illustration above for the detailed location of the detecting sensor.



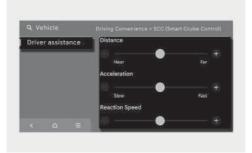
#### CAUTION

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

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

### **Smart Cruise Control settings**

#### Smart Cruise Control



With the vehicle on, select Settings > Vehicle > Driver assistance > Driving convenience > SCC (Smart Cruise Control) is selected in the infotainment system, you can change the vehicle distance, the acceleration, and the reaction speed manually.

### Based on driving style





With the vehicle on, select Settings > Vehicle > Driver assistance > Driving convenience > SCC (Smart Cruise Control) > Based on driving style is selected in the infotainment system, Smart Cruise Control will operate based on the driver's driving style, such as vehicle distance, acceleration, reaction speed.

#### Information

- · While Smart Cruise Control is operating with "Based on driving style" selected, if you press and hold the Vehicle Distance (♠) button, "Based on driving style" will deactivate. If you press and hold the Vehicle Distance (♠) button again, "Based on driving style" will activate.
- Based on Driving Style setting continuously learns when the driver drives the vehicle.
- When Based on Driving Style is deactivated, the driver's driving style such as vehicle distance, acceleration, reaction speed will maintain in the same stage.
- Even if the steps of the driver's driving style such as vehicle distance, acceleration, reaction speed displayed when the Base on Driving Style is activated or deactivated are the same, the driving style to be controlled may be differently.

### Warning methods



With the vehicle on, select Settings > Vehicle > Driver assistance > Warning methods in the infotainment system to select following:

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

#### Information \_

- If you change the Warning methods, the Warning methods of other Driver Assistance systems may change.
- Warning method will maintain its last setting even if the vehicle is restarted.
- The setting menu may not be available for your vehicle depending on the vehicle features and specifications.

## **Smart Cruise Control operation**

# Operating conditions

#### **Basic function**

Smart Cruise Control operates when the following conditions are satisfied.

- The gear is in D (Drive)
- · Your vehicle speed is within the operating speed range
  - 10-200 km/h (5-120 mph); when there is no vehicle in front

- 0-200 km/h (0-120 mph); when there is a vehicle in front
- ESC (Electronic Stability Control) or ABS (Anti-Lock Braking System) is on

Smart Cruise Control does not operate in the following conditions.

- Your vehicle is in power down mode (♠ indicator on)
- The driver's door is opened
- EPB (Electronic Parking Brake) is applied
- ESC (Electronic Stability Control) or ABS (Anti-Lock Braking System) is controlling the vehicle
- Forward Collision-Avoidance Assist brake control is operating
- Remote Smart Parking Assist brake control is operating (if equipped)

#### Information

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

### **Operating conditions for Acceleration Assist**

Overtaking Acceleration Assist operates when the turn signal indicator is turned on to the left (left-hand drive) or turned on to the right (right-hand drive) while Smart Cruise Control is operating, and the following conditions are satisfied:

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

Overtaking Acceleration Assist does not operate in the following conditions.

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



#### WARNING

- When the turn signal indicator is turned on to the left (left-hand drive) or turned on to the right (right-hand drive) while there is a vehicle ahead, the vehicle may accelerate temporarily. Pay attention to the road conditions at all times.
- Regardless of the driving direction in your country, Overtaking Acceleration Assist will operate when the conditions are satisfied. When using the function in countries with different driving direction, always check the road conditions at all times.

### Turning on Smart Cruise Control

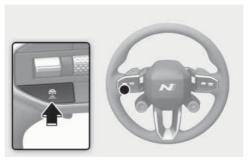


- Press the Driving Assist button to turn on Smart Cruise Control. The speed will be set to the current speed on the cluster.
- If there is no vehicle in front of you, the set speed will be maintained, but if there is a vehicle in front of you, the speed may decrease to maintain the distance to the vehicle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

#### Information

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

### Setting vehicle distance



Press the button repeatedly to cycle through the headway settings from **Distance 4** → Distance 3 → Distance 2 → Distance 1 → Distance 4.

If you drive at 90 km/h (56 mph), the distance is maintained as follows:

- Distance 4: about 52.5 m (172 ft.)
- Distance 3: about 40 m (130 ft.)
- Distance 2: about 32.5 m (106 ft.)
- Distance 1: about 25 m (82 ft.)

The distance is set to the last set distance when the vehicle is restarted, or when Smart Cruise Control was temporarily canceled.

### Increasing set speed



- Push the + switch up and release it immediately. The set speed will increase by 1 km/h (1 mph) each time the switch is operated in this manner.
- Push the + switch up and hold it while monitoring the set speed on the cluster. The set speed will increase by 10 km/h (5 mph) each time the switch is operated in this manner. Release the switch when the desired speed is shown, and the vehicle will accelerate to that speed. You can increase the set speed up to 200 km/h (120 mph).



#### MARNING

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

# Decreasing set speed



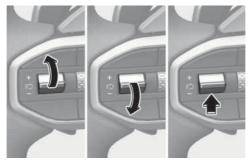
- Push the switch down and release it immediately. The set speed will decrease by 1 km/h (1 mph) each time the switch is operated in this manner.
- Push the switch down and hold it while monitoring the set speed on the cluster. The set speed will decrease by 10 km/h (5 mph) each time the switch is operated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

### Temporarily cancelling Smart Cruise Control



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

### Resuming Smart Cruise Control



To resume Smart Cruise Control after the function was cancelled, operate the +, - or II 3 switch.

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

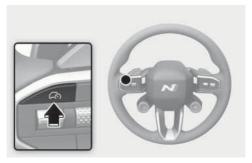
If you press the II a switch, vehicle speed will resume to the preset speed.



### MARNING.

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

### Turning off Smart Cruise Control



To turn Smart Cruise Control off, press the Driving Assist (A) button.

Information

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



### CAUTION

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

# Display and Control

You can see the status of the Smart Cruise Control operation in the Driving Assist view on the cluster. Refer to "Cluster display" section in chapter 4.

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





#### Temporarily cancelled



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

#### Information

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

# Accelerating temporarily



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



#### MARNING

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

### Based on driving style operation



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

### Temporarily cancelling Smart Cruise Control



Smart Cruise Control will be temporarily cancelled automatically when:

- The vehicle speed is above 210 km/h (130 mph)
- The vehicle is stopped for a certain period of time
- The accelerator pedal is continuously depressed for a certain period of time
- The conditions for the Smart Cruise Control to operate is not satisfied

If Smart Cruise Control is temporarily cancelled automatically, the "SCC (Smart Cruise Control) cancelled" (or "SCC (Smart Cruise Control) Canceled") warning message will appear on the cluster, and an audible warning will sound to warn the driver.

Information

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



#### MARNING

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

#### Smart Cruise Control conditions not satisfied



If the Driving Assist button, + switch, - switch or II > switch is operated when Smart Cruise Control operating conditions are not satisfied, the "SCC (Smart Cruise Ctrl.) conditions not met" (or "Smart Cruise Control conditions not met") will appear on the cluster, and an audible warning will sound.

#### In traffic situation



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

### Warning road conditions ahead



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

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



#### WARNING

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

### Collision Warning



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

# **MARNING**

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

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

# **MARNING**

Take the following precautions when using Smart Cruise Control:

- Smart Cruise Control does not substitute for proper and safe driving. It is the
  responsibility of the driver to always check the speed and distance to the vehicle ahead.
- Smart Cruise Control may not recognize unexpected and sudden situations or complex driving situations, so always pay attention to driving conditions and control your vehicle speed.
- Keep Smart Cruise Control off when the function is not in use to avoid inadvertently setting a speed.
- Do not open the door or leave the vehicle when Smart Cruise Control is operating, even if the vehicle is stopped.
- Always be aware of the selected speed and headway distance.
- Keep a safe distance according to road conditions and vehicle speed. If the headway distance is too close during high-speed driving, a serious collision may result.
- When maintaining distance with the vehicle ahead, if the front vehicle disappears, Smart Cruise Control may suddenly accelerate to the set speed. Always be aware of unexpected and sudden situations from occurring.
- Vehicle speed may decrease on an upward slope and increase on a downward slope.
- Always be aware of situations such as when a vehicle cuts in suddenly.
- When you are towing a trailer or another vehicle, turn off Smart Cruise Control for safety reasons.
- Turn off Smart Cruise Control when your vehicle is being towed.
- Smart Cruise Control may not operate properly if interfered by strong electromagnetic waves.
- Smart Cruise Control may not detect an obstacle in front and lead to a collision. Always look ahead cautiously to prevent unexpected and sudden situations from occurring.
- Vehicles moving in front of you with a frequent lane change may cause a delay in Smart Cruise Control reaction or may cause Smart Cruise Control to react to a vehicle actually in an adjacent lane. Always drive cautiously to prevent unexpected and sudden situations from occurring.
- Always be aware of the surroundings and drive safely, even though a warning message does not appear or an audible warning does not sound.
- If any other system's warning message appears or warning sound is generated, Smart Cruise Control warning message may not be displayed and warning sound may not be generated.
- You may not hear the warning sound of Forward Collision-Avoidance Assist if the surrounding is noisy.
- The vehicle manufacturer is not responsible for any traffic violation or accidents caused by the driver.
- Always set the vehicle speed under the speed limit in your area.
- Vehicle distance, acceleration and reaction speed may change if the driver's driving style changes.



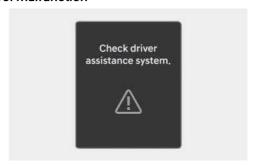
- The vehicle must be driven sufficiently to reflect the actual driving style of the driver, such as inter-vehicle distance, acceleration and reaction speed.
- Based on Driving style does not reflect whether the driver has changed when determining the driver's driving style.
- If you are driving in special conditions, such as snow, rain, fog or steep slopes, the vehicle may not be driven according to the driver's driving style.

#### Information

- Smart Cruise Control may not operate for few seconds after the vehicle is started or the front view camera or front radar is initialized.
- You may hear a sound when the brake is controlled by Smart Cruise Control.
- Based on Driving Style may not reflect the driver's driving style or driving conditions that affects driving safety.
- · Based on Driving Style does not reflect any other driving style other than inter-vehicle distance, acceleration and reaction speed.

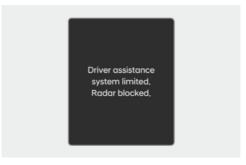
#### Smart Cruise Control malfunction and limitations

#### Smart Cruise Control malfunction



When Smart Cruise Control is not working properly, the "Check driver assistance system." warning message and the master (A) warning light will appear on the instrument cluster. We recommend that your vehicle be inspected by an authorized HYUNDAI dealer.

#### Smart Cruise Control disabled



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

If this occurs the warning message will appear for a certain period of time on the instrument cluster.

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



#### WARNING

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



#### **CAUTION**

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

#### Limitations of Smart Cruise Control

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

- The detecting sensor or the surroundings are contaminated or damaged
- Washer fluid is continuously sprayed, or the wiper is on
- The camera lens is contaminated due to tinted, filmed or coated windshield, damaged glass, or sticky foreign material (sticker, bug, etc.) on the glass
- · Moisture is not removed or frozen on the windshield
- The field of view of the front view camera is obstructed by sun glare
- · Street light or light from an oncoming vehicle is reflected on the wet road surface, such as a puddle on the road
- The temperature around the front view camera is high or low
- An object is placed on the dashboard
- · The surrounding is very bright
- The surrounding is very dark, such as in a tunnel, etc.
- The brightness changes suddenly, for example when entering or exiting a tunnel
- The brightness outside is low, and the headlights are not on or are not bright

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

- Driving through a narrow road where trees or grass are overgrown
- There is interference by electromagnetic waves, such as driving in an area with strong radio waves or electrical noise
- · Driving on a curved road



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

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



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

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

#### · Driving on an inclined road



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

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

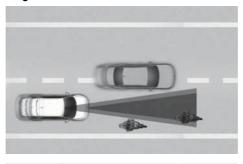
#### Changing lanes

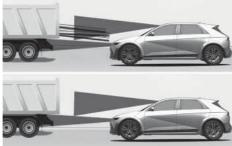


- [A] Your vehicle
- [B] Lane changing vehicle

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

#### · Situations when detecting are limited





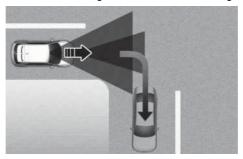
In the following cases, some vehicles, pedestrians or animals in your lane cannot be detected by the sensor:

- Vehicles offset to one side
- Slow-moving vehicles or sudden decelerating vehicles
- Vehicles with higher ground clearance or vehicles carrying loads that stick out of the back of the vehicle
- Vehicles that has the front lifted due to heavy loads
- Vehicles within about 2 m (6 ft.) from your vehicle
- Oncoming vehicles
- Stopped vehicles
- Vehicles with small rear profile, such as trailers
- Narrow vehicles, such as motorcycles or bicycles
- Special vehicles
- Animals and pedestrians
- Adjust your vehicle speed by depressing the brake pedal according to the road and driving conditions ahead.

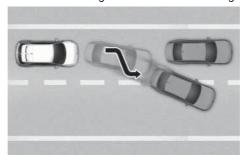
In the following cases, the vehicle in front cannot be detected by the sensor:

- You are steering your vehicle
- Driving on narrow or sharply curved roads
- · When a vehicle ahead disappears at an intersection, your vehicle may accelerate.

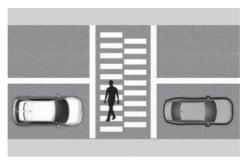
Always pay attention to road and driving conditions while driving.



• When a vehicle in front of you merges out of the lane, Smart Cruise Control may not immediately detect the new vehicle that is now in front of you. Always pay attention to road and driving conditions while driving.



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



# **Navigation-based Smart Cruise Control (NSCC)**

### if equipped

Navigation-based Smart Cruise Control can help drive at a certain speed according to the road conditions when driving on highways (or motorways) by using road information from the navigation system while Smart Cruise Control is operating.

#### Information

- · Navigation-based Smart Cruise Control is available only on certain highways.
- Navigation-based Smart Cruise Control operates on main roads of highways (or motorways), and does not operate on interchanges or junctions.
- Additional highways may be expanded by future navigation updates.

### Highway Curve Zone Auto Slowdown

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

### **Navigation-based Smart Cruise Control settings**



With the vehicle on, select **Settings > Vehicle > Driver assistance > Driving Convenience > Auto motorway speed change** from the infotainment system to turn on Navigation based Smart Cruise Control and deselect to turn off the function.

#### Information

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

# **Navigation-based Smart Cruise Control operation**

# Operating conditions

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

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

#### 534 Driver Assistance System

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

### Navigation-based Smart Cruise Control display and control

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



Navigation-based Smart Cruise Control standby

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

**Navigation-based Smart Cruise Control operating** 

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

Temporarily canceled or interrupted by the driver

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

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



#### WARNING



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

 Navigation-based Smart Cruise Control is not able to slow down your vehicle to a safe speed The images and colors in the instrument cluster may differ depending on the cluster type or theme selected from the infotainment system.

#### **Highway Curve Zone Auto Slowdown**

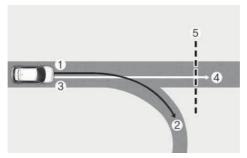
- Depending on the curve ahead on the highway (or motorway), the vehicle will decelerate, and after passing the curve, the vehicle will accelerate to Smart Cruise Control set speed.
- Vehicle deceleration time may differ depending on the vehicle speed and the degree of the curve on the road. The higher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

#### **Limitations of Navigation-based Smart Cruise Control**

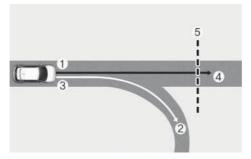
Navigation-based Smart Cruise Control may not operate properly under the following circumstances:

- The navigation is not working properly
- Map information is not transmitted due to infotainment system's abnormal operation
- Speed limit and road information in the navigation is not updated
- The map information and the actual road is different because of real-time GPS data or map information error
- The navigation searches for a route while driving
- · GPS signals are blocked in areas such as a tunnel
- A road that divides into two or more roads and joins again
- The driver goes off course the route set in the navigation
- The route to the destination is changed or cancelled by resetting the navigation
- The vehicle enters a service station or rest area
- Android Auto or Car Play is operating
- The navigation cannot detect the current vehicle position (for example, elevated roads including overpass adjacent to general roads or nearby roads exist in a parallel way)
- The navigation is being updated while driving
- · The navigation is being restarted while driving
- The speed limit of some sections changes according to the road situations
- Driving on a road under construction
- · Driving on a road that is controlled
- There is bad weather, such as heavy rain, heavy snow, etc.

Driving on a road that is sharply curved

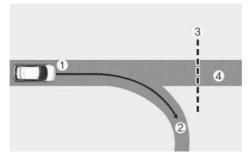


- 1. Set route
- 2. Branch line
- 3. Driving route
- 4. Main road
- 5. Curved road section
- When there is a difference between the navigation set route (branch line) and the driving route (main road), Highway Curve Zone Auto Slowdown function may not operate until the driving route is recognized as the main road.
- · When the vehicle's driving route is recognized as the main road by maintaining the main road instead of the navigation set route, Highway Curve Zone Auto Slowdown function will operate. Depending on the distance to the curve and the current vehicle speed, vehicle deceleration may not be sufficient or may decelerate rapidly.



- 1. Set route
- 2. Branch line
- 3. Driving route
- 4. Main road
- 5. Curved road section
- When there is a difference between the navigation route (main road) and the driving route (branch line), Highway Curve Zone Auto Slowdown function will operate based on the curve information on the main road.

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



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

# **MARNING**

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

### Information

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

# Lane Following Assist (LFA)

## tif equipped

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

## Detecting sensor



#### [A] Front view camera

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

See the illustration above for the detailed location of the detecting sensor.



### CAUTION

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

# Lane Following Assist settings

# Warning methods



With the vehicle on, select Settings > Vehicle > Driver assistance > Warning methods in the infotainment system to select following:

- Warning volume: The warning volume can be adjusted.
- Driving safety priority: Your vehicle lowers all other audio volumes when the Driver Assistance system warning sounds.

### 540 Driver Assistance System

### Information

- If you change the Warning methods, the Warning methods of other Driver Assistance systems may change.
- Warning method will maintain its last setting even if the vehicle is restarted.
- The setting menu may not be available for your vehicle depending on the vehicle features and specifications.

## **Lane Following Assist operation**

## Turning Lane Following Assist On/Off



With the vehicle on, shortly press the Lane Driving Assist button located on the steering wheel to turn on Lane Following Assist. The gray or green (A) indicator light will appear on the cluster.

Press the button again to turn off the function.

## Lane Following Assist



If the vehicle ahead and/or both lane markings are detected and your vehicle speed is below 200 km/h (120 mph), the green (a) indicator light appears on the cluster, and Lane Following Assist helps center the vehicle in the lane by assisting the steering wheel.



## CAUTION

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

## Hands-off warning



If the driver takes their hands off the steering wheel for several seconds, the "**Keep hands** on steering wheel" warning message will appear with a warning sound in stages.

First stage: Warning message

Second stage: Warning message (red steering wheel) with a warning sound



If the driver still does not have their hands on the steering wheel after the hands-off warning, the "LFA (Lane Following Assist) cancelled" (or "Lane Following Assist deactivated") warning message will appear and Lane Following Assist will be automatically cancelled.



#### WARNING

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

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

Lane undetected



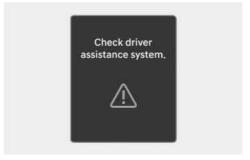
Lane detected



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

## **Lane Following Assist malfunction and limitations**

## Lane Following Assist malfunction



When Lane Following Assist is not working properly, the "Check driver assistance system." warning message will appear on the instrument cluster for several seconds, and the master (A) warning light appears on the instrument cluster. If this occur, we recommend that your vehicle be inspected by an authorized HYUNDAI dealer.

## Limitations of Lane Following Assist

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

### Information

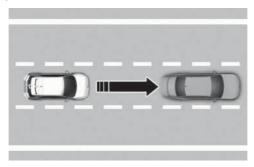
For more information on Lane Following Assist precautions, refer to the "Lane Keeping Assist malfunction and limitations" section in this chapter.

# **Highway Driving Assist (HDA)**



# Highway Driving Assist

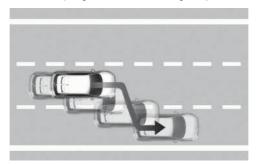
Highway Driving Assist detect lanes and vehicles ahead, helps maintain the distance from the vehicle ahead and the set speed, and helps center your vehicle in the lane while driving on the highway.



## Highway Lane Change Assist

## tif equipped

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



## Information

- Highway Driving Assist is available only certain highways.
- Highway Driving Assist operates on main roads of highways, and does not operate on interchanges or junctions.
- Additional highways may be expanded by future navigation updates.

## Detecting sensor





- [A] Front view camera
- [B] Front radar
- [C] Front corner radar (if equipped)
- [D] Rear corner radar (if equipped)

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



# **CAUTION**

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

# **Highway Driving Assist settings**



With the vehicle on, select or deselect **Settings** > **Vehicle** > **Driver assistance** > **Driving Convenience** > **HDA (Motorway Driving Assist)** from the infotainment system to set whether to use each function.

### Basic function

If "HDA (Motorway Driving Assist)" is selected, it helps maintain distance from the vehicle ahead, maintain the set speed, and helps center the vehicle in the lane.

## Highway Lane Change Assist

## if equipped

If "Lane change assist (motorway)" is selected, it helps the driver change lanes.

### Information

- When "HDA (Motorway Driving Assist)" is deselected, the setting for "Lane change assist (motorway)" cannot be changed.
- If there is a problem with the functions, the settings cannot be changed. We recommend that your vehicle be inspected by an authorized HYUNDAI dealer.
- If the vehicle is restarted, the functions will maintain the last setting.



## WARNING

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

## Warning methods



With the vehicle on, select **Settings** > **Vehicle** > **Driver assistance** > **Warning methods** in the infotainment system to select following:

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

### Information

- If you change the Warning methods, the Warning methods of other Driver Assistance systems may change.
- · Warning method will maintain its last setting even if the vehicle is restarted.
- The setting menu may not be available for your vehicle depending on the vehicle features and specifications.

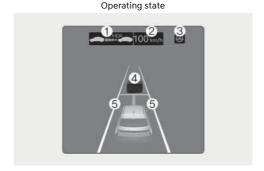
## **Highway Driving Assist operation**

#### Basic function

Displaying operating status

You can see the status of the Highway Driving Assist operation in the Driving Assist view on the instrument cluster. Refer to the "View modes" section in chapter 4.

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



Standby state



- 1 Highway Driving Assist indicator, whether there is a vehicle ahead and the selected distance level are displayed.
  - Highway Driving Assist indicator (HDA)
    - Green HDA: Operating state
    - Gray HDA: Standby state
    - White HDA blink: Accelerator depressed state

- Not displayed : Off
- 2 Set speed
- 3 Lane Following Assist indicator
- 4 Whether there is a vehicle ahead and the selected vehicle to distance
- 5 Whether the lane is detected or not

### Information

- For more information on the display, refer to the "Smart Cruise Control (SCC)" and "Lane Following Assist (LFA)" sections in this chapter.
- The images and colors in the instrument cluster may differ depending on the cluster type or theme selected from the infotainment system.

## **Highway Driving Assist operation**

Highway Driving Assist operates when:

- Driving on the main road of highways, and turning on Highway Driving Assist by pressing the Driving Assist button
- Entering the main road of highways while Lane Following assist and Smart Cruise Control are operating

## Restarting after stopping



When Highway Driving Assist is operating, your vehicle will stop if the vehicle ahead of you stops. Also, if the vehicle ahead of you starts moving within 30 seconds after the stop, your vehicle will start as well. In addition, after the vehicle has stopped and 30 seconds have passed, the "Use switch or pedal to accelerate" message will appear on the instrument cluster. Depress the accelerator pedal or operate the + switch, - switch or IIIO switch to start driving.

### Hands-off warning



If the driver takes their hands off the steering wheel for several seconds, the "Keep hands on steering wheel" warning message will appear and an audible warning will sound in stages.

First stage: Warning message

Second stage: Warning message (red steering wheel) and audible warning



If the driver still does not have their hands on the steering wheel after the hands-off warning, "HDA (Motorway Driving Assist) sys. cancelled" (or "Highway Driving Assist deactivated") warning message will appear and Highway Driving Assist and Lane Change Assist will be automatically cancelled.

#### **Driving speed limit**

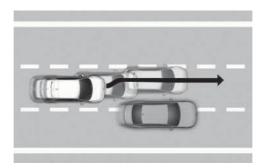


When Highway Driving Assist is cancelled by the hands-off warning. The driving speed will be limited.

While Driving Speed Limit function is operating, the "Driver's grasp not detected. Speed will be limited" (or "Driver's grasp not detected. Driving speed will be limited") warning message will appear on the instrument cluster, and an audible warning will sound continuously.

#### Driving to one side within lane

### tif equipped



When vehicle speed is above 60 km/h (40 mph), if a detected vehicle around you is driving at a close distance, your vehicle will control steering in the opposite direction of the vehicle to assist in safe driving. If there a detected vehicle in both sides of the lane that are driving close to you, the function will not veer to the opposite side of the lane.

## **Highway Driving Assist standby**

When the Smart Cruise Control is temporarily cancelled while Highway Driving Assist is operating, Highway Driving Assist will be in the standby state. At this time, Lane Following Assist will operate properly.

### Information

- Driving Speed Limit helps you drive below 60 km/h (40 mph). At this time, the vehicle decelerates due to the vehicle ahead. After the vehicle has decelerated, it cannot automatically accelerate.
- Driving Speed Limit will cancel in the following circumstances:
  - When the driver grabs the steering wheel again
  - When the driver turns on Lane Following Assist by pressing the Lane Driving Assist button (/⊕\)
  - When +, -, || ⊃ switch or \( \exists \) button is operated, or the accelerator pedal or the brake pedal is depressed

# Highway Lane Change Assist

## tif equipped

#### Displaying operating status

You can see the status of the Highway Lane Change Assist operation in the Driving Assist view on the cluster. Refer to "View modes" section in chapter 4.

Highway Lane Change Assist function will be displayed as below depending on the status of the function.

Displaying operating status



Highway Lane Change Assist ready to operate



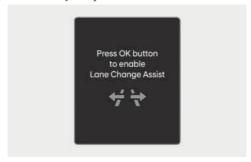
- 1 Highway Lane Change Assist indicator(₹₹)
  - · Green on: Ready state
  - · Green blink: Operating state
  - · Gray on: Standby state
  - White blink: Canceled state (display only a certain time)
- 2 lane line
  - The lane line is displayed same as the Highway Lane Change Assist indicator (1).
     However, if the function is on standby, it displays whether the lane line is detected.
- 3 Green arrow and shade
  - The green arrow is displayed when a certain amount of time has passed after the function has started operating, and until the lane change has completed.
- 4 Message
  - Message is displayed when the function does not operate even though the turn signal is used.
  - Message is displayed when the function is canceled while operating.

To turn on Highway Lane Change Assist

Highway Lane Change Assist function will turn on when the following conditions are satisfied.

 Turn on Highway Driving Assist using the Driving Assist button or Lane Driving Assist button. "Lane change assist (motorway)" is also turned on and "Press OK button to enable Lane Change Assist" message appears on the cluster. .

Highway Lane Change Assist ready to operate



While Highway Lane Change Assist function is on, the function will be ready to operate when all the following conditions are satisfied:

- Highway Driving Assist is operating
- Lane Following Assist is operating
- · A vehicle in the rear area of your vehicle is detected more than once after the vehicle is turned on
- Your vehicle speed is above 80 km/h (50 mph)
- Hands-off warning is not displayed on the cluster
- · Hazard warning flasher is off

#### Information

- While Lane Change Assist function is turned on (indicator on), Lane Following Assist will not cancel even if the turn signal indicator or hazard warning flasher is operating.
- · Lane Change Assist function turns off automatically when driven in the following road conditions:
  - One driving lane
  - A road with a intersection or crosswalk ahead
  - A road with no structure, such as a medium strip, quardrails, etc.
  - There is a pedestrian or cyclist on the road ahead
- When the function is in the ready state, and vehicle speed is below 75 km/h (45 mph). the function will change to the standby state.
- The images and colors in the cluster may differ depending on the cluster type or theme selected from the cluster.



When Highway Lane Change Assist function turns off while operating, steering assist will be temporarily canceled. Always be cautious while driving.

## **Highway Lane Change Assist operating**



Highway Lane Change Assist function will operate, when you push the turn signal lever up or down to the A or B position while the function is in the ready state (indicator is green), and all of the following conditions are satisfied:

- The driver has his/her hand on the steering wheel
- There is no collision risk in the direction of lane change
- There is a single dotted lane line in the direction of lane change
- There are no Forward Collision- Avoidance Assist and Blind Spot Collision-Avoidance Assist warnings
- The vehicle is driven in the middle of the lane (should not be driving close to one side of the lane)
- The road you are driving on, or the road you are about to change lane is a road that the function can operate

## Information

- When the turn signal lever is positioned at [A].
  - If the turn signal lever is released to the center (1) before stepping on the lane, Highway Lane Change Assist cancels. If the turn signal lever is released to the center (1) after stepping on the lane, Highway Lane Change Assist changes the lane and turns off the turn signal after lane change is complete.
- When the turn signal lever is positioned at [B].
  - If the turn signal lever is placed at [B] position for a certain period of time, the green arrow will appear. At this time, even when the lever is released and returns to it's original position (1) lane change will still be assisted.
  - While lane change is being made by the function, the turn signal indicator will blink even when the turn signal lever is not held, and the turn signal indicator will turn off when lane change is complete.

#### **Highway Lane Change Assist standby**

Highway Lane Change Assist function will be in the standby state when one of the ready state condition is not satisfied, or when entering or driving on one of the following roads:

- Road within a certain distance from the tollgate on the main road of the highway
- The road ahead ends without an interchange or junction
- Road with sharp curves
- · Road with narrow lanes
- · Road that is under construction

## Highway Lane Change Assist cancel

The function will be canceled when:

- The turn signal lever is positioned at [A] and it's released to the center (1) before the vehicle steps a lane line while Highway Lane Line Assist is operating.
- The turn signal lever is turned on in the opposite direction of lane change
- · The steering wheel is steered sharply

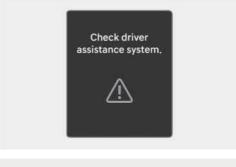


### WARNING

- While the function is operating, the function will cancel if one of the following occurs:
  - Highway Driving Assist is turned off
  - Lane Following Assist or Smart Cruise Control is turned off or temporarily canceled
  - Hands-off warning message is displayed on the cluster
  - The hazard warning flasher is turned on
  - Forward Collision-Avoidance Assist or Blind-Spot Collision Avoidance Assist warning message is displayed
  - Possible collision is detected in the next lane, even though there are no Forward-Collision Avoidance Assist and Blind-Spot Collision Avoidance Assist warning
  - Entering a road under construction
  - The target lane to make a lane change disappears
  - There is a problem with turn signal lamps
  - Highway Lane Change Assist function is off (The function turns off when the function is turned off, when the road changes to a one-way road, when there is an intersection or crosswalk ahead, when you enter a road with no structure, such as a medium strip, guardrail, etc., or when there is a pedestrian or cyclist on the driving lane.)
  - Your vehicle speed is below 75 km/h (45 mph)
- · While the function is operating, when the function is canceled, depending on the driving conditions, the vehicle may drive to the middle of the driving lane or steering assist may stop. Always pay attention to road and driving conditions while driving.
- The function may not operate properly on roads with pedestrians or cyclists, such as an intersection or crosswalk. Always pay attention to road and driving conditions while drivina.

## **Highway Driving Assist malfunction and limitations**

# Highway Driving Assist malfunction





When Highway Driving Assist is not working properly, the "Check driver assistance system." and "Check lane change assist function" warning message and the master (A) warning light appears on the instrument cluster. If this occurs, we recommend that your vehicle be inspected by an authorized HYUNDAI dealer.

# **MARNING**

- The driver is responsible for controlling the vehicle for safe driving.
- Always have your hands on the steering wheel while driving.
- Highway Driving Assist is a supplemental function that assists the driver in driving the vehicle and is not a complete autonomous driving system. Always check road conditions, and if necessary, take appropriate actions to drive safely.
- Always have your eyes on the road, and it is the responsibility of the driver to
  avoid violating traffic laws. The vehicle manufacturer is not responsible for any traffic
  violation or accidents caused by the driver.
- Highway Driving Assist may not be able to recognize all traffic situations. Highway
  Driving Assist may not detect possible collisions due to limitations of the function.
  Always be aware of the limitations of the function. Obstacles such as vehicles,
  motorcycles, bicycles, pedestrians, or unspecified objects or structures such as
  quardrails, tollgate, etc., that may collide with the vehicle may not be detected.
- Highway Driving Assist will turn off automatically under the following situations:
  - Driving on roads that Highway Driving Assist does not operate, such as a rest area, intersection, junction, etc.
  - The navigation does not operate properly such as when the navigation is being updated or restarted
- Highway Driving Assist may inadvertently operate or turn off depending on road conditions (navigation information) and surroundings.
- Lane Following Assist function may be temporarily disabled when the front view camera cannot detect lanes properly or the hands-off warning is on.
- You may not hear the warning sound of Highway Driving Assist if the surrounding is noisy.
- If the vehicle is driven at high speed above a certain speed at a curve, your vehicle may drive to one side or may depart from the driving lane.
- When you are towing a trailer or another vehicle, turn off Highway Driving Assist for safety reasons.
- The hands-off warning message may appear early or late depending on how the steering wheel is held or road conditions. Always have your hands on the steering wheel while driving.
- For your safety, please read the owner's manual before using the Highway Driving Assist.
- Highway Driving Assist will not operate when the vehicle is started, or when the detecting sensors or navigation is being initialized.

# Limitation of Highway Driving Assist

Highway Driving Assist may not operate properly, or may not operate under the following circumstances:

- The map information and the actual road is different because the navigation is not updated
- The map information and the actual road is different because of real-time GPS data or map information error

- The infotainment system is overloaded by simultaneously performing functions such as route search, video playback, voice recognition, etc.
- · GPS signals are blocked in areas such as a tunnel
- The driver goes off course or the route to the destination is changed or canceled by resetting the navigation
- · The vehicle enters a service station or rest area
- · Android Auto or Car Play is operating
- The navigation cannot detect the current vehicle position (for example, elevated roads including overpass adjacent to general roads or nearby roads exist in a parallel way)
- · White single dotted lane line or road edge cannot be detected
- The road is temporarily controlled due to construction, etc.
- There is no structure, such as a medium strip, guardrails, etc., on the road
- There is a changeable lane in the direction of lane change
- · A trailer or hitch mounted carrier is installed

#### Information

For more information on the limitations of the front view camera, front radar, front corner radar and rear corner radar, refer to the "Forward Collision-Avoidance Assist (FCA)" section in this chapter.

# **Rear View Monitor (RVM)**

## tif equipped

Rear View Monitor shows the area behind the vehicle to assist you when parking or driving.

## Detecting sensor

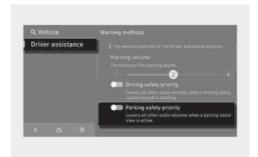


[A] Wide-rear view camera

Refer to the picture above for the detailed location of the detecting sensor.

## **Rear View Monitor settings**

# Warning methods



With the vehicle on, select **Settings** > **Vehicle** > **Driver assistance** > **Warning methods** in the infotainment system to select following:

• Parking safety priority: Your vehicle lowers all other audio volumes when Rear View Monitor is operating.

#### Information

- If you change the Warning methods, the Warning methods of other Driver Assistance systems may change.
- Warning method will maintain its last setting even if the vehicle is restarted.
- The setting menu may not be available for your vehicle depending on the vehicle features and specifications.

## Camera settings



- You can change Rear View Monitor "Display contents" by touching the setup icon (♣) on the screen while Rear View Monitor is operating, or by selecting Settings > Display > Camera settings > Display contents in the infotainment system while the vehicle is on.
- In the "Display contents", you can change settings for "Extended rear camera use" and "Rear view reference lines".

#### Extend rear camera use

Keeps displaying the rear view when shifting from R (Reverse) to N (Neutral) or D (Drive). When exceeding a certain speed, the rear view stops displaying.

#### Rear view reference lines

If "Rear view reference lines" is selected, the rear view parking guide lines and rear top view guide lines appear on the Rear View Monitor screen.

#### Information

- The horizontal guideline of the Rear View Parking Guidance shows the distance of 0.5 m (1.6 ft.), 1 m (3.3 ft.) and 2.3 m (7.6 ft.) from the vehicle.
- The horizontal guideline of the Rear Top View Parking Guidance shows the tailgate opening distance and the distance of 1.5 m (4.9 ft.) from the vehicle.

# **Rear View Monitor operation**

# Parking/View button



Press the Parking/View button (1) while the gear is in P (Park), D (Drive) or N (Neutral) to turn on the Rear View Monitor.

#### Rear view



### **Operating conditions**

- The gear is shifted to R (Reverse).
- The Parking/View button (1) is pressed while the gear is in P (Park), N (Neutral) or D (Drive), and vehicle speed is 10 km/h (6 mph) or less.

Touch the Change View button (2) to select rear view or rear top view.

#### Off conditions

- The gear is shifted to P (Park).
- The Parking/View button (1) or the Infotainment system screen button (3) is Pressed.
- The gear is in N (Neutral) or D (Drive) and the vehicle speed is above 10 km/h (6 mph).
- The previous button 

   (4) is selected on the rear view menu.

#### Information

When the gear is in R (Reverse), the rear view does not turn off.

### Extended Rear View Monitor

The rear view will maintain showing on the screen to help you when parking.

#### **Operating conditions**

The gear is shifted from R (Reverse) to N (Neutral) or D (Drive), and vehicle speed is 10 km/h (6 mph) or less.

#### Off conditions

- When vehicle speed is above 10 km/h (6 mph), the rear view will turn off.
- Shift the gear to P (Park), the rear view will turn off.
- Press the Parking/View button (1), the rear view will turn off.

# Rear View while driving

The driver is able to check the rear view on the screen while driving, it is to assist with backing up.

### **Operating conditions**

• The Parking/View button (1) is pressed, while the gear is in P (Park), N (Neutral) or D (Drive), and the vehicle speed is above 10 km/h (6 mph)

#### Off conditions

- The gear is shifted to P (Park).
- The Parking/View button (1) is pressed again.
- One of the infotainment system screen button (3) is selected.
- The previous button 

   (4) is selected on the rear view menu.

### When operating

If the gear is shifted to R (Reverse), when rear view while driving appears on the screen, the screen will change to rear view.

#### Information

- The rear view does not turn off regardless of the mode when the gear is in R (Reverse).
- When the rear view is activated, the latest used view mode is displayed.
- The rear parking guidelines are displayed in rear view and rear top view mode. (When selecting Settings > Vehicle > Driver assistance > Parking safety > Camera settings > Display contents > Rear view reference lines in the infotainment system) However, rear parking guidelines are not displayed in the rear view while driving.
- The rear view while driving does not turn off even when the vehicle speed is lower than 10 km/h (6 mph) once it is on.
- When the rear view while driving is on, the rear top view will be deactivated.

## Rear top view



When you touch the icon (2), the top view is displayed on the screen and shows the distance from the vehicle in the back of your vehicle while parking.

#### Rear View Monitor malfunction and limitations

#### Rear View Monitor malfunction

When Rear View Monitor is not working properly, or the screen flickers, or the camera image does not display properly, we recommend that your vehicle be inspected by an authorized HYUNDAI dealer.

### Limitations of Rear View Monitor



## MARNING

- · The rear view camera does not cover the complete area behind the vehicle. The driver should always check the rear area directly through the inside and side view mirror before parking or backing up.
- · The image shown on the screen may differ from the actual distance of the object. Make sure to directly check the vehicle's surroundings for safety.
- Always keep the rear view camera lens clean. If the lens is covered with foreign material, it may adversely affect camera performance and Rear View Monitor may not operate properly. However, do not use chemical solvents such as strong detergents containing high alkaline or volatile organic solvents (gasoline, acetone, etc.). This may damage the camera lens.

# **Surround View Monitor (SVM)**

## if equipped

Surround View Monitor uses the wide view cameras and displays images around your vehicle through the infotainment system screen to help with safe parking or driving.

## Detecting sensor





- [A] Wide-front view camera
- [B] Wide-side view camera (Below the side view mirror)
- [C] Wide-side view camera (Below the side view mirror)
- [D] Wide-rear view camera

Refer to the picture above for the detailed location of the detecting sensors.

## **Surround View Monitor settings**

## Warning methods



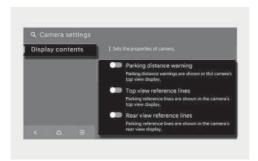
With the vehicle on, select **Settings** > **Vehicle** > **Driver assistance** > **Warning methods** in the infotainment system to select following:

• Parking safety priority: Your vehicle lowers all other audio volumes when Surround View Monitor is operating.

## Information

- If you change the Warning methods, the Warning method of other Driver Assistance systems may change.
- Warning method will maintain its last setting even if the vehicle is restarted.
- The setting menu may not be available for your vehicle depending on the vehicle features and specifications.

# Camera settings



- You can change Surround View Monitor "Display contents" by touching the setup icon
   (♣) on the screen while Surround View Monitor is operating, or by selecting Settings
   > Vehicle > Driver assistance > Parking safety > Camera settings in the infotainment system while the vehicle is on.
- In the "Display contents", you can change settings for "Parking distance warning", "Top view reference lines" and "Rear view reference lines".

### Parking distance warning

When the "Parking distance warning" is selected, parking distance warning appears on the top view area of the Surround View Monitor screen.

#### Top view reference lines

When the "**Top view reference lines**" is selected, the parking guideline appears on the top view area of the Surround View Monitor screen when the front top view and rear top view is displayed.

• The image will be displayed only when Parking Distance Warning is warning the driver.

#### Information

The horizontal guideline of the Rear Top View Parking Guidance shows the tailgate opening distance of 2 m (6.6 ft.) from the vehicle.

#### Rear view reference lines

When the "Rear view reference lines" is selected, parking guidance is displayed in the rear view.

#### Information

The horizontal guideline shows the distance of 0.5 m (1.6 ft.), 1 m (3.3 ft.) and 2.3 m (7.6 ft.).

#### Surround View Monitor Auto On

With the vehicle on, selectSettings > Vehicle > Driver assistance > Parking safety > Surround view monitor auto On in the infotainment system to use the function.

#### Information

For more information in Surround vidw monitor auto On, refer to the "Surround View Monitor operation" in this chapter.

# **Surround View Monitor operation**

# Parking/View button



Press the Parking/View button (1) to turn on Surround View Monitor. Press the button again to turn off the function.

#### Front view



The front view appears on the screen when the gear is in N (Neutral) or D (Drive) to assist in parking.

You may select top view, front view, and side view using the change view button (2).

### **Operating conditions**

- The gear is shifted to N (Neutral) or D (Drive) from R (Reverse) and the vehicle speed is 10 km/h (6 mph) or less.
- The Parking/View button (1) is pressed, while the gear is in P (Park), N (Neutral) or D (Drive), and vehicle speed is 10 km/h (6 mph) or less.
- Surround View Monitor Auto On function is operated.
   When Settings > Vehicle > Driver assistance > Parking safety > Surround view monitor auto On is selected in the infotainment system, the front view while parking appears.

#### Information

When the front view is activated, the latest used view mode is displayed.

#### Off conditions

- The gear is shifted from N (Neutral) or D (Drive) to P (Park) or R (Reverse).
- The Parking/View button (1) or the Infotainment system button (4) is Pressed.
- Vehicle speed is above 10 km/h (6 mph).
- The previous button 

   (3) is selected

#### Information

Surround View Monitor may turn off when vehicle speed is above 10 km/h (6 mph). However, Surround View Monitor may not turn on again although vehicle speed drops below 10 km/h (6 mph).

#### Rear view

The rear view appears on the screen to assist in parking.

You may select top view, rear view, and side view using the change view button (2).

#### **Operating conditions**

• The gear is shifted to R (Reverse).

• The rear view is selected by pressing the change view button (2) after pressing the Parking/View button (1), while the gear is in P (Park), N (Neutral) or D (Drive), and vehicle speed is 10 km/h (6 mph) or less.

#### Off conditions

- The gear is shifted to R (Reverse).
- The Parking/View button (1) is pressed, while the gear is in P (Park).

### Information

When the gear is in R (Reverse), the rear view does not turn off even if the infotainment system button (4) is Pressed.

## Front view while driving

The driver is able to check the front view on the screen for safe driving.

You may select rear view while driving using the change view button (2).

### **Operating conditions**

• The Parking/View button (1) is pressed, while the gear is in N (Neutral) or D (Drive), and vehicle speed is above 10 km/h (6 mph).

#### Off conditions

- The Parking/View button (1) or the Infotainment system button (4) is pressed.
- The gear is shifted from N (Neutral) or D (Drive) to P (Park) or R (Reverse).
- The view mode button (2) is pressed when the vehicle speed is 10 km/h (6 mph) or less.

#### Information

- When the front view while driving is activated, the latest used view mode displayed.
- The front view while driving does not turn off even when the vehicle speed is lower than 10 km/h (6 mph) once it is on.
- When the front view while driving is on, the front top view and side view are deactivated in all speed.

# Rear View while driving

The driver is able to check the rear view on the screen while driving, it is to assist with backing up.

## Operating conditions

• The rear view is selected by pressing the change view button (2) after pressing the Parking/View button (1), while the gear is in N (Neutral) or D (Drive), and vehicle speed is above 10 km/h (6 mph).

You may select rear view or 3D view using the change view button (2).

#### Off conditions

- The gear is shifted to P (Park).
- The Parking/View button (1) or the Infotainment system button (4) is Pressed.

### Information

- · When the rear view while driving is activated, the latest used view mode is displayed.
- The Rear View Parking Lines does not operate on the rear view while driving.
- The rear view while driving does not turn off even when the vehicle speed is lower than 10 km/h (6 mph) once it is on.
- When the rear view while driving is on, the rear top view and rear side view are deactivated in all speed.

#### 3D view



The 3D view shows the image around the vehicle from various angles.

You can change angles by tapping the screen. Press the 3D view button again to return to the initial angle.

## **Operating conditions**

When the 3D view is selected by pressing the change view button (2):

- The gear is in P (Park), N (Neutral) or D (Drive) when vehicle speed is below 10 km/h (6 mph).
- The Surround View Monitor is turned on when the gear is in R (Reverse).

#### Off conditions

When the gear is in P (Park), N (Neutral) or D (Drive):

- The gear is shifted to P (Park) from N (Neutral) or D (Drive).
- The Parking/View button (1) or the Infotainment system button (4) is Pressed.
- Vehicle speed is above 10 km/h (6 mph).

When the gear is in R (Reverse):

• The gear is shifted to P (Park)

Information

3D view does not display guidelines.

### Surround View Monitor malfunction and limitations

### Surround View Monitor malfunction

When Surround View Monitor is not working properly, or the screen flickers, or the camera image does not display properly, we recommend that your vehicle be inspected by an authorized HYUNDAI dealer.

## Limitations of Surround View Monitor

- When the vehicle is stopped for a long time in winter or when the vehicle is parked in an indoor car park, the exhaust fumes may temporarily blur the image.
- The screen may be displayed abnormally, and an icon may appear at the screen under the following circumstances:
  - The tailgate is opened
  - The driver or front passenger door is opened
  - The side view mirror is folded



## WARNING

- · ALWAYS look around your vehicle to make sure there are no objects or obstacles before moving the vehicle. What you see on the screen may differ from the actual vehicle's location.
- · The image shown on the screen may differ from the actual distance of the object. Make sure to directly check the vehicle's surroundings for safety.
- Surround View Monitor is designed to be used on a flat surface. Therefore, if used on roads with different heights such as curbs and speed bumps, the image in the screen my not look correct.
- · Always keep the camera lens clean. If the lens is covered with foreign material, it may adversely affect camera performance and Surround View Monitor may not operate properly. However, do not use chemical solvents such as strong detergents containing high alkaline or volatile organic solvents (gasoline, acetone, etc.). This may damage the camera lens.

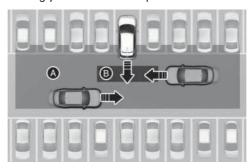
## Information

Surround View Monitor uses the cameras installed on the vehicle to show images around the vehicle through the infotainment system screen. The image shown on the screen may look unnatural depending on the surroundings.

# Rear Cross-Traffic Collision-Avoidance Assist (RCCA)

## tif equipped

Rear Cross-Traffic Collision-Avoidance Assist detects vehicles approaching from the rear left or right while your vehicle is reversing and warns you of a possible collision with a warning message and a warning sound. Also, Rear Cross-Traffic Collision-Avoidance Assist may assist with braking your vehicle to help avoid a collision.



- [A] Rear Cross-Traffic Collision Warning operating range
- [B] Rear Cross-Traffic Collision-Avoidance Assist operating range



#### CAUTION

Warning timing may vary depending on the speed of the approaching vehicle.

## Detecting sensor



#### [A] Rear corner radar

Refer to the picture above for the detailed location of the detecting sensors.

Information

For more information on the precautions of the rear corner radar, refer to the "Blind-Spot Collision-Avoidance Assist (BCA)" section in this chapter.

## **Rear Cross-Traffic Collision-Avoidance Assist settings**

## Rear Cross-Traffic Safety



With the vehicle on, select **Settings > Vehicle > Driver assistance > Parking safety > Rear cross-traffic safety** in the infotainment system to turn on Rear Cross-Traffic Collision-Avoidance Assist and deselect to turn off the function.



### MARNING

When the vehicle is restarted, Rear Cross-Traffic Collision-Avoidance Assist always turn on. However, if "Off" is selected after the vehicle is restarted, the driver should always be aware of the surroundings and drive safely.

## Warning methods



With the vehicle on, select **Settings** > **Vehicle** > **Driver assistance** > **Warning methods** in the infotainment system to select following:

• Warning volume: The warning volume can be adjusted.

#### Information

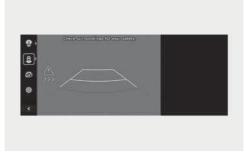
- If you change the Warning methods, the Warning methods of other Driver Assistance systems may change.
- Warning method will maintain its last setting even if the vehicle is restarted.
- The setting menu may not be available for your vehicle depending on the vehicle features and specifications.

#### **Rear Cross-Traffic Collision-Avoidance Assist operation**

Rear Cross-Traffic Collision-Avoidance Assist warns and helps control the vehicle depending on collision risk level: 'Collision Warning', 'Emergency Braking' and 'Stopping vehicle and ending brake control'.

### Collision Warning



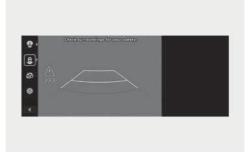


- To warn the driver of an approaching vehicle from the rear left/right side of your vehicle, the warning light on the side view mirror will blink and a warning will appear on the instrument cluster. At the same time, an audible warning will sound. If Rear View Monitor is operating, a warning will also appear on the infotainment system screen.
- Rear Cross-Traffic Collision-Avoidance Assist will operate when all the following conditions are satisfied:
  - The gear is shifted to R (Reverse)
  - Vehicle speed is below 8 km/h (5 mph)
  - The approaching vehicle is within approximately 25 m (82 ft.) from the left and right side of your vehicle
  - The speed of the vehicle approaching from the left and right is above 5 km/h (3 mph)

- If the operating conditions are satisfied, there may be a warning whenever the vehicle approaches from the left or right side even though your vehicle speed is 0 km/h (0 mph).
- The images and colors in the instrument cluster may differ depending on the cluster type or theme selected in the infotainment system.

### Emergency Braking





- To warn the driver of an approaching vehicle from the rear left/right side of your
  vehicle, the warning light on the side view mirror blinks and a warning message
  appears on the instrument cluster. At the same time, an audible warning sounds. A
  warning also appears on the infotainment system.
- Emergency braking will be assisted to help prevent a collision with approaching vehicles from the left and right.
- Rear Cross-Traffic Collision-Avoidance Assist operates when all the following conditions are satisfied:
  - The gear is shifted to R (Reverse)
  - Vehicle speed is below 8 km/h (5 mph)
  - The approaching vehicle is within approximately 1.5 m (5 ft.) from the left and right side of your vehicle
  - The speed of the vehicle approaching from the left and right is above 5 km/h (3 mph)
  - Emergency braking is assisted to help prevent collision with approaching vehicles from the left and right.



Brake control will end when:

- The approaching vehicle is out of the detecting range
- The approaching vehicle passes behind your vehicle
- The approaching vehicle does not drive toward your vehicle
- The approaching vehicle speed slows down
- The driver depresses the brake pedal with sufficient power

### Stopping vehicle and ending brake control



- When the vehicle is stopped due to emergency braking, the "Drive carefully" warning message will appear on the cluster.
- For your safety, the driver should depress the brake pedal immediately and check the surroundings.
- · Brake control will end after the vehicle is stopped by emergency braking for approximately 2 seconds.
- During emergency braking, braking control by Rear Cross-Traffic Collision-Avoidance Assist will automatically cancel when the driver excessively depresses the brake pedal.

### WARNING

Take the following precautions when using Rear Cross-Traffic Collision-Avoidance Assist:

- For your safety, only change the Settings after parking the vehicle at a safe location.
- If any other system's warning message appears or audible warning is generated, Rear Cross-Traffic Collision-Avoidance Assist warning message may not be displayed and audible warning may not be generated.
- You may not hear the warning sound of Rear Cross-Traffic Collision-Avoidance Assist if the surrounding is noisy.
- Rear Cross-Traffic Collision-Avoidance Assist may not operate if the driver applies the brake pedal to avoid collision.
- During Rear Cross-Traffic Collision-Avoidance Assist operation, the vehicle may stop suddenly injuring passengers and shifting loose objects. Always have the seat belt on and keep loose objects secured.
- Even if there is a problem with Rear Cross-Traffic Collision-Avoidance Assist, the vehicle's basic braking performance will operate properly.
- When Rear Cross-Traffic Collision-Avoidance Assist is operating, braking control by the function will automatically cancel when the driver excessively depresses the accelerator pedal.
- Rear Cross-Traffic Collision-Avoidance Assist does not operate in all situations or cannot avoid all collisions.
- Rear Cross-Traffic Collision-Avoidance Assist may warn the driver late or may not warn the driver depending on the road and driving conditions.
- The driver has the responsibility to control the vehicle. Do not solely depend on Rear Cross-Traffic Collision-Avoidance Assist. Rather, maintain a safe braking distance, and if necessary, depress the brake pedal to reduce driving speed or to stop the vehicle.
- Never deliberately operate Rear Cross-Traffic Collision-Avoidance Assist on people, animal, objects, etc. It may cause serious injury or death.



#### CAUTION

The brake control may not operate properly depending on the status of ESC (Electronic Stability Control).

There will only be a warning when:

- The ESC (Electronic Stability Control) warning light is on
- ESC (Electronic Stability Control) is engaged in a different function

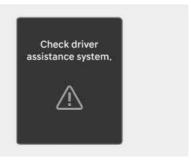
#### Information

If braking is assisted by Rear Cross-Traffic Collision-Avoidance Assist, the driver must immediately depress the brake pedal and check vehicle surroundings.

- Brake control will end when the driver depresses the brake pedal with sufficient power.
- · After shifting the gear to R (Reverse), braking control will operate once for left and right vehicle approach.

#### Rear Cross-Traffic Collision-Avoidance Assist malfunction and limitations

#### Rear Cross-Traffic Collision-Avoidance Assist malfunction

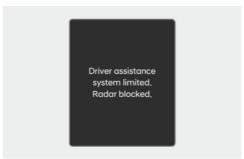


When Rear Cross-Traffic Collision-Avoidance Assist is not working properly, the "Check driver assistance system." warning message appears on the instrument cluster for several seconds, and the master (A) warning light illuminates on the instrument cluster. If this occur, we recommend that your vehicle be inspected by an authorized HYUNDAI dealer.



When the side view mirror warning light is not working properly, the "Check side view mirror warning light" (or "Check outside mirror warning icon") warning message appears on the instrument cluster for several seconds, and the master (A) warning light illuminates on the cluster. If this occur, we recommend that your vehicle be inspected by an authorized HYUNDAI dealer.

#### Rear Cross-Traffic Collision-Avoidance Assist disabled



When the rear bumper around the rear-side radar or sensor is covered with foreign material, such as snow or rain, or installing a trailer or carrier, it can reduce the detecting performance and temporarily limit or disable Rear Cross-Traffic Collision-Avoidance Assist.

If this occurs, the "Driver assistance system limited. Radar blocked." warning message appears on the instrument cluster.

Rear Cross-Traffic Collision-Avoidance Assist operates properly when such foreign material or trailer, etc., is removed.

If Rear Cross-Traffic Collision-Avoidance Assist does not operate properly after it is removed, we recommend that your vehicle be inspected by an authorized HYUNDAI dealer.



#### MARNING

- Even though the warning message does not appear on the cluster, Rear Cross-Traffic Collision-Avoidance Assist may not operate properly.
- Rear Cross-Traffic Collision-Avoidance Assist may not operate properly in an area (for example, open terrain), where any objects are not detected after turning ON the vehicle.



# **CAUTION**

Turn off Rear Cross-Traffic Collision-Avoidance Assist to install or remove a trailer, carrier, or another attachment. Turn on Rear Cross-Traffic Collision-Avoidance Assist when finished.

#### Limitations of Rear Cross-Traffic Collision-Avoidance Assist

Rear Cross-Traffic Collision-Avoidance Assist may not operate properly, or it may operate unexpectedly under the following circumstances:

- Departing from where trees or grass are overgrown
- Departing from where roads are wet
- Speed of the approaching vehicle is fast or slow

Braking control may not work, driver's attention is required in the following circumstances:

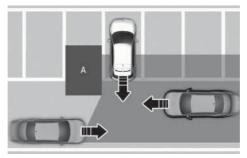
- The vehicle severely vibrates while driving over a bumpy road, uneven road or concrete patch
- Driving on a slippery surface due to snow, water puddle, ice, etc.
- The tire pressure is low or a tire is damaged
- · The braking system has been modified
- Remote Smart Parking Assist is operating (if equipped)

#### Information

For more information on the limitations of the rear corner radar, refer to the "Blind-Spot Collision-Avoidance Assist (BCA)" section in this chapter.



### Driving near a vehicle or structure

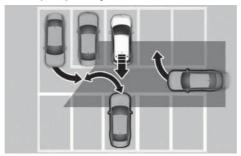


#### [A] Structure

Rear Cross-Traffic Collision-Avoidance Assist may be limited when driving near a vehicle or structure, and may not detect the vehicle approaching from the left or right. If this occurs, the function may not warn the driver or control the brakes when necessary.

Always check your surroundings while backing up.

When the vehicle is in a complex parking environment



Rear Cross-Traffic Collision-Avoidance Assist may detect vehicles which are parking or pulling out near your vehicle (for example, a vehicle leaving beside your vehicle, a vehicle parking or pulling out in the rear area, a vehicle approaching your vehicle making a turn, etc.). If this occurs, the function may unnecessarily warn the driver and control the brake.

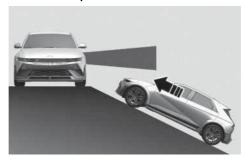
Always check your surroundings while backing up.

· When the vehicle is parked diagonally



Rear Cross-Traffic Collision-Avoidance Assist may be limited when backing up diagonally, and may not detect the vehicle approaching from the left or right. If this occurs, the function may not warn the driver or control the brakes when necessary. Always check your surroundings while backing up.

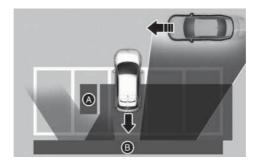
· When the vehicle is on or near a slope



Rear Cross-Traffic Collision-Avoidance Assist may be limited when the vehicle is on a uphill or downhill slope, or near it, and may not detect the vehicle approaching from the left or right. If this occurs, the function may not warn the driver or control the brakes when necessary.

Always check your surroundings while backing up.

· Pulling into the parking space where there is a structure



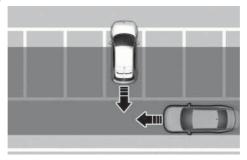
[A] Structure

[B] Wall

Rear Cross-Traffic Collision-Avoidance Assist may detect vehicles passing by in front of you when parking in reverse into a parking space with a wall or structure in the rear or side area. If this occurs, the function may unnecessarily warn the driver and control the brake.

Always check your surroundings while backing up.

· When the vehicle is parked rearward



Rear Cross-Traffic Collision-Avoidance Assist may detect vehicles passing by behind you when parking in reverse into a parking space. If this occurs, the function may unnecessarily warn the driver and control the brake.

Always check your surroundings while backing up.

# WARNING

- When you are towing a trailer or turn off Rear Cross-Traffic Collision-Avoidance Assist for safety reasons.
- · Rear Cross-Traffic Collision-Avoidance Assist may not operate properly if interfered by strong electromagnetic waves.
- Rear Cross-Traffic Collision-Avoidance Assist may not operate for 3 seconds after the vehicle is started, or the rear corner radars are initialized.
- If the vehicle is turned off and restarted while the sensor is blocked or malfunctioned, the condition is maintained. Therefore, Rear Cross-Traffic Collision-Avoidance Assist is may not operate properly.

# Forward/Reverse Parking Distance Warning (PDW)

tif equipped

Forward/Reverse Parking Distance Warning uses the front and rear ultrasonic sensors to detect and warns you if a person, animal, or object is within a certain distance when your vehicle is stopped or driving at low speed.

### Detecting sensor





- [A] Front ultrasonic sensors
- [B] Rear ultrasonic sensors

Refer to the picture above for the detailed location of the detecting sensors.

### **Forward/Reverse Parking Distance Warning settings**

### Warning methods



With the vehicle on, select **Settings** > **Vehicle** > **Driver assistance** > **Warning methods** in the infotainment system to select following:

• Warning volume: The warning volume can be adjusted.

#### Information

- If you change the Warning methods, the Warning method of other Driver Assistance systems may change.
- Warning method will maintain its last setting even if the vehicle is restarted.
- The setting menu may not be available for your vehicle depending on the vehicle features and specifications.

## Auto PDW (Parking Distance Warning)

To use **Auto PDW (Parking Distance Warning)** function, select **Settings > Vehicle> Driver assistance > Parking safety > Auto PDW (Parking Distance Warning)** in the infotainment system.

#### Information

When **Auto PDW (Parking Distance Warning)** is selected, the Parking Safety button indicator ( $P^{\eta}$ ) stays on.

### Forward/Reverse Parking Distance Warning operation

#### Parking Safety button



Press the Parking Safety (P<sup>m/2</sup>) button to turn on Forward/Reverse Parking Distance Warning. Press the button again to turn off the function.

• When the gear is shift to R (Reverse), Parking Distance Warning automatically turns on (Parking Safety button indicator on).

### Forward Parking Distance Warning

Forward Parking Distance Warning operates when one of the condition is satisfied.

- The gear is shifted from R (Reverse) to D (Drive) with Reverse Parking Distance Warning on.
- The gear is in D (Drive) and the Parking Safety button indicator light is on.
- Shift to D (Drive) when the function is off (Only when Settings > Vehicle > Driver assistance > Parking safety > Auto PDW (Parking Distance Warning) is selected in the infotainment system.)

- Forward Parking Distance Warning operates only when the vehicle's forward speed is below 10 km/h (6 mph).
- Forward Parking Distance Warning is deactivated if the vehicle speed reaches above 30 km/h (18 mph). It may not reactivate although the vehicle speed drops below 10 km/h (6 mph).

(Only when Settings > Vehicle > Driver assistance > Parking safety > Auto PDW (Parking **Distance Warning)** is not selected in the infotainment system.)

Distance from object	Warning	Warning sound	
	Cluster		
60-120 cm (24-48 in.)		<b>a</b>	Buzzer beeps intermittently (front inner side)
30-60 cm (12-24 in.)	(0)	Î	Beeps more frequently
within 30 cm (12 in.)	Û	Î	Beeps continuously

- The corresponding indicator illuminates whenever each ultrasonic sensor detects a person or object in its sensing range. Also an audible warning sounds.
- · When more than two objects are detected at the same time, the closest one is warned with an audible warning.
- The shape of the indicator in the illustration may differ from the actual vehicle.
- The front outer side warnings turn on when the gear is in R (Reverse).

# Reverse Parking Distance Warning

Reverse Parking Distance Warning operates under the following conditions.

• The gear is shifted to R (Reverse).

Reverse Parking Distance Warning operates when the vehicle's reverse speed is below 10 km/h (6 mph).

Distance from object	Warning	Warning sound	
	Cluster		
60-120 cm (24-48 in.)			Buzzer beeps intermittently
30-60 cm (12-24 in.)		<u> </u>	Buzzer beeps intermittently
within 30 cm (12 in.)			Beeps continuously

- The corresponding indicator illuminates whenever each ultrasonic sensor detects a person or object in its sensing range. Also an audible warning sounds.
- When more than two objects are detected at the same time, the closest one is warned with an audible warning.
- The shape of the indicator in the illustration may differ from the actual vehicle.

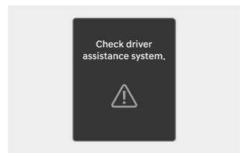
#### Forward/Reverse Parking Distance Warning malfunction and limitations

#### Parking Distance Warning malfunction

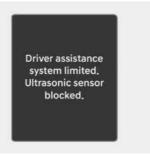
After starting the vehicle, a beep may sound when the gear is shifted to R (Reverse) to indicate Parking Distance Warning is operating properly.

However, if one or more of the following occurs, first check whether the ultrasonic sensor is damaged or blocked with foreign material, If it still does not work properly we recommend that your vehicle be inspected by an authorized HYUNDAI dealer.

- The audible warning does not sound.
- · The buzzer sounds intermittently.
- The "Check driver assistance system." warning message appears on the cluster.



#### Parking Distance Warning disabled



If this occurs the "**Driver assistance system limited. Ultrasonic sensor blocked.**" warning message appears on the instrument cluster. Parking Distance Warning operates properly when snow, rain or foreign material is removed.

If Parking Distance Warning does not operate properly after obstruction (snow, rain, or foreign material) is removed (including trailer, carrier, etc., from the rear bumper), we recommend that your vehicle be inspected by an authorized HYUNDAI dealer.

Information



When the Parking Distance Warning is operating, if the function is not working normally or the ultrasonic sensor is blocked, the master warning light (<u>A</u>) appears in the direction of the corresponding sensor. You can check the warning in the Utility view on the cluster.

# Limitations of Forward/Reverse Parking Distance Warning

- Parking Distance Warning may not operate properly when:
  - Moisture is frozen to the sensor
  - Sensor is covered with substance, such as snow or water (Forward/Reverse Parking Distance Warning operates properly when such substance is removed.)
  - The weather is extremely hot or cold
  - The sensor or sensor assembly is disassembled
  - The surface of the sensor is pressed hard or hit with a hard object
  - The surface of the sensor is scratched with a sharp object
  - The sensors or its surrounding area is directly sprayed with high pressure washer

- Parking Distance Warning may malfunction when:
  - Heavy rain or water spray is present
  - Water flows on the surface of the sensor
  - Affected by another vehicle's sensors
  - The sensor is covered with snow or ice
  - Driving on uneven road, gravel roads or bushes
  - Objects that generates ultrasonic waves are near the sensor
  - License plate is installed in a different spot from the original location
  - The vehicle bumper height or ultrasonic sensor installation has been modified
  - Attaching equipment or accessories next to the ultrasonic sensors
- The following objects may not be detected:
  - Sharp or slim objects, such as ropes, chains or small poles.
  - Narrow objects, such as corners of a square column
  - Objects, which tend to absorb sensor frequency, such as clothes, spongy material or snow.
  - Objects smaller than 100 cm (40 in.) in length and narrower than 14 cm (6 in.) in diameter.
  - Pedestrians, animals or objects that are very close to the ultrasonic sensors



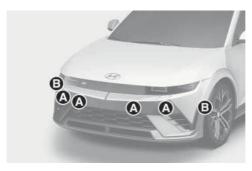
### MARNING

- Parking Distance Warning is a supplemental function. The operation of Parking Distance Warning can be affected by several factors (including environmental conditions). It is the responsibility of the driver to always check the front and rear views before and while parking.
- · Your new vehicle warranty does not cover any accidents or damage to the vehicle due to the malfunction of Parking Distance Warning.
- Pay close attention when driving near objects, pedestrians, and especially children. Some objects may not be detected by the ultrasonic sensors, due to the objects distance, size or material, all of which can limit the effectiveness of the sensor.
- Parking Distance Warning does not warn you in the order of detection. It varies depending on the speed of the vehicle or the shape of a person, animal, or object.
- If the Parking Distance Warning does not operate properly, we recommend that your vehicle be inspected by an authorized HYUNDAI dealer.

# Forward/Side/Reverse Parking Distance Warning (PDW)

Forward/Side/Reverse Parking Distance Warning uses the front, side, and rear ultrasonic sensors to detect and warns you if a person, animal, or object is within a certain distance when your vehicle is stopped or driving at low speed.

#### Detecting sensor





- [A] Front ultrasonic sensors
- [B] Front side ultrasonic sensors
- [C] Rear ultrasonic sensors
- [D] Rear side ultrasonic sensors

Refer to the picture above for the detailed location of the detecting sensors.

### Forward/Side/Reverse Parking Distance Warning Settings

### Warning methods



With the vehicle on, select Settings > Vehicle > Driver assistance > Warning methods in the infotainment system to select following:

• Warning volume: The warning volume can be adjusted.

#### Information

- If you change the Warning methods, the Warning methods of other Driver Assistance systems may change.
- Warning method will maintain its last setting even if the vehicle is restarted.
- The setting menu may not be available for your vehicle depending on the vehicle features and specifications.

# Parking Distance Warning Auto On

To use Auto PDW (Parking Distance Warning) function, select Settings > Vehicle > Driver assistance > Parking safety > Auto PDW (Parking Distance Warning) in the infotainment system.

#### **Information**

When Auto PDW (Parking Distance Warning) is selected, the Parking Safety button indicator (P<sub>1</sub>) stays on.

### Forward/Side/Reverse Parking Distance Warning Operation

#### Parking Safety button



Press the Parking Safety (P<sup>m/2</sup>) button to turn on Forward/Reverse Parking Distance Warning. Press the button again to turn off the function.

· When the gear is shift to R (Reverse), Parking Distance Warning automatically turns on (Parking Safety button indicator on).

### Forward Parking Distance Warning

Forward Parking Distance Warning operates under the following conditions.

- The gear is shifted from R (Reverse) to D (Drive) with Reverse Parking Distance Warning on
- The gear is in D (Drive) and the Parking Safety (P™) button indicator light is on
- · Shift to D (Drive) when the function is off (Only when Settings > Vehicle > Driver assistance > Parking safety > Auto PDW (Parking **Distance Warning)** is selected in the infotainment system.)

- Forward Parking Distance Warning operates only when the vehicle's forward speed is below 10 km/h (6 mph).
- Forward Parking Distance Warning is deactivated if the vehicle speed reaches above 30 km/h (18 mph). It may not reactivate although the vehicle speed drops below 10 km/h (6 mph).

(Only when Settings > Vehicle > Driver assistance > Parking safety > Auto PDW (Parking Distance Warning) is not selected in the infotainment system.)

Distance from	Warning	Manain a count		
object	Cluster	Infotainment	Warning sound	
60-120 cm (24-48 in.)			Buzzer beeps intermittently (front inside)	
30-60 cm (12-24 in.)	9	Î	Beeps more frequently	
within 30 cm (12 in.)		Ĝ	Beeps continuously	

- The corresponding indicator illuminates whenever each ultrasonic sensor detects a person or object in its sensing range. Also an audible warning sounds.
- When more than two objects are detected at the same time, the closest one is warned with an audible warning.
- The shape of the indicator in the illustration may differ from the actual vehicle.
- When in R (Reverse) gear, you are warned only of the front outside.

## Side Parking Distance Warning

Side Parking Distance Warning operates under the following conditions.

- The gear is shifted to R (Reverse).
- The gear is shifted from R (Reverse) to D (Drive).
- The gear is in D (Drive) and the Parking Safety (P™) button indicator light is on
- Shift to D (Drive) when the function is off

(Only when **Settings > Vehicle > Driver assistance > Parking safety > Auto PDW (Parking Distance Warning)** is selected in the infotainment system.)

#### Information

- Side Parking Distance Warning operates when the vehicle's forward speed is below 10 km/h (6 mph).
- Side Parking Distance Warning operated only when Forward or Rearward Parking Distance Warning is on.

Distance from object	Warning	Morning	
	Cluster	Infotainment	Warning sound
60-120 cm (24-48 in.)		101	-
30-60 cm(12-24 in.)	Ø		-
within 30 cm (12 in.)	0	d	Beeps continuously

- · The corresponding indicator illuminates whenever each ultrasonic sensor detects a person or object in its sensing range.
- If an object located within 30 cm (12 in.) from the side of the vehicle's path is detected, an audible warning sounds.
- If an object outside the side of the vehicle's path is detected, the warning indicator is displayed.
- The shape of the indicator in the illustration may differ from the actual vehicle.

# Reverse/Side Parking Distance Warning

Reverse/Side Parking Distance Warning operates under the following conditions.

• The gear is shifted to R (Reverse).

Side Parking Distance Warning operated only when Forward or Rearward Parking Distance Warning is on.

Distance from	Warning	Warning sound	
object	Cluster Infotainment		
60-120 cm (24-48 in.)			Buzzer beeps intermittently
30-60 cm(12-24 in.)			Beeps more frequently
within 30 cm (12 in.)	Q	ū	Beeps continuously

- The corresponding indicator illuminates whenever each ultrasonic sensor detects a person or object in its sensing range. Also an audible warning sounds.
- When more than two objects are detected at the same time, the closest one is warned with an audible warning.
- The shape of the indicator in the illustration may differ from the actual vehicle.

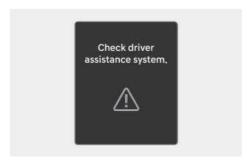
#### Forward/Side/Reverse Parking Distance Warning malfunction and limitations

#### Forward/Side/Reverse Parking Distance Warning malfunction

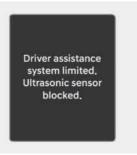
After starting the vehicle, a beep sounds when the gear is shifted to R (Reverse) to indicate Parking Distance Warning is operating properly.

However, if one or more of the following occurs, first check whether the ultrasonic sensor is damaged or blocked with foreign material. If it still does not work properly, we recommend to have your vehicle inspected by an authorized HYUNDAI dealer.

- The audible warning does not sound.
- · The buzzer sounds intermittently.
- The "Check driver assistance system." warning message appears on the instrument cluster.



#### Parking Distance Warning disabled



If this occurs the "Driver assistance system limited. Ultrasonic sensor blocked." warning message appears on the instrument cluster. Parking Distance Warning operates properly when snow, rain or foreign material is removed. If Parking Distance Warning does not operate properly after obstruction (snow, rain, or foreign material) is removed (including trailer, carrier, etc., from the rear bumper), we recommend to have your vehicle inspected by an authorized HYUNDAI dealer.

Information



When the Parking Distance Warning is operating, if the function is not working normally or the ultrasonic sensor is blocked, the master warning light (<u>A</u>) appears in the direction of the corresponding sensor. You can check the warning in the Utility view on the cluster.

## Limitations of Parking Distance Warning

- Parking Distance Warning may not operate properly when:
  - There is excessive moisture or frost on the sensor
  - Sensor is covered with foreign substance, such as snow or water (Parking Distance Warning operates properly when such substance is removed.)
  - The weather is extremely hot or cold
  - The sensor or sensor assembly is disassembled
  - The surface of the sensor is pressed hard or hit with a hard object
  - The surface of the sensor is scratched with a sharp object
  - The sensors or its surrounding area is directly sprayed with high pressure washer

- Parking Distance Warning may malfunction when:
  - Heavy rain or water spray is present
  - Water flows on the surface of the sensor
  - Affected by another vehicle's sensors
  - The sensor is covered with snow or ice
  - Driving on uneven road, gravel roads or bushes
  - Objects that generates ultrasonic waves are near the sensor
  - License plate is installed in a different spot from the original location
  - The vehicle bumper height or ultrasonic sensor installation has been modified
  - Attaching equipment or accessories next to the ultrasonic sensors
- The following objects may not be detected:
  - Sharp or slim objects, such as ropes, chains or small poles.
  - Narrow objects, such as corners of a square column
  - Objects, which tend to absorb sensor frequency, such as clothes, spongy material or snow.
  - Objects smaller than 100 cm (40 in.) in length and narrower than 14 cm (6 in.) in diameter.
  - Pedestrians, animals or objects that are very close to the ultrasonic sensors
  - An object in the Side space between the front corner ultrasonic sensor and the rear corner ultrasonic sensor or an object approaching the Side space



### MARNING

- Parking Distance Warning is a supplemental function. The operation of Parking Distance Warning can be affected by several factors (including environmental conditions). It is the responsibility of the driver to always check the front and rear views before and while parking.
- · Your new vehicle warranty does not cover any accidents or damage to the vehicle due to the malfunction of Parking Distance Warning.
- Pay close attention when driving near objects, pedestrians, and especially children. Some objects may not be detected by the ultrasonic sensors, due to the objects distance, size or material, all of which can limit the effectiveness of the sensor.
- Parking Distance Warning does not warn you in the order of detection. It varies depending on the speed of the vehicle or the shape of a person, animal, or object.
- If the Parking Distance Warning does not operate properly, we recommend that your vehicle be inspected by an authorized HYUNDAI dealer.

# **Reverse Parking Collision-Avoidance Assist (PCA)**

#### tif equipped

Reverse Parking Collision-Avoidance Assist detects pedestrians or objects behind the vehicle and may warn you or assist you with braking to help avoid a collision while your vehicle is reversing.

#### Detecting sensor





- [A] Wide-rear view camera
- [B] Rear ultrasonic sensors

Refer to the picture above for the detailed location of the detecting sensors.

#### **Reverse Parking Collision-Avoidance Assist settings**

#### Warning methods



With the vehicle on, select **Settings** > **Vehicle** > **Driver assistance** > **Warning methods** in the infotainment system to select following:

• Warning volume: The warning volume can be adjusted.

#### Information

- If you change the Warning methods, the Warning methods of other Driver Assistance systems may change.
- Warning method will maintain its last setting even if the vehicle is restarted.
- The setting menu may not be available for your vehicle depending on the vehicle features and specifications.

### Parking Safety

With the vehicle on, select or deselect **Settings** > **Vehicle** > **Driver assistance** > **Parking safety** in the infotainment system to set whether to use each function.

 If "Backward safety" is selected, Parking Collision-Avoidance Assist warns the driver and assists with braking when a collision with a pedestrian or an object is imminent from behind.

# **Reverse Parking Collision-Avoidance Assist operation**

Turning Parking Collision-Avoidance Assist On/Off



Press and hold the Parking Safety ( $P_{\text{NL}}$ ) button more than 2 seconds, to turn the Parking Collision-Avoidance Assist on or off.

#### Operating conditions

If Reverse Parking Collision-Avoidance Assist detects a risk of collision behind the vehicle with a pedestrian or an object, Reverse Parking Collision-Avoidance Assist warns the driver with an audible warning and warning message on the cluster. If Surround View Monitor is operating, a warning appears on the infotainment screen.

If collision is imminent, Reverse Parking Collision-Avoidance Assist assists you with braking.

Select "Backward safety" from the "Parking safety" menu of the infotainment system. Parking Collision-Avoidance Assist is enabled when the following conditions are satisfied:

- · The tailgate and door are closed
- · The parking brake is released
- · A trailer is not connected
- The gear is shifted to R (Reverse)
- Vehicle speed is below 10 km/h (6 mph) (detecting pedestrians)
- Vehicle speed is below 4 km/h (2.4 mph) (detecting objects)
- Parking Collision-Avoidance Assist components such as the rear view camera and the rear ultrasonic sensors are in normal conditions

When Reverse Parking Collision-Avoidance Assist activates, a line appears behind the vehicle image in the instrument cluster.



#### Information

Reverse Parking Collision-Avoidance Assist operates only once after shifting the gear to R (Reverse). To reactivate Parking Collision-Avoidance Assist, shift the gear from another gear to R (Reverse).

#### Off conditions

If collision is imminent, Reverse Parking Collision-Avoidance Assist assists you with braking. Braking assist is released after 5 minutes. Immediately depress the brake pedal and check vehicle surroundings. Braking assist is also released in the following conditions when:

• The gear is shifted to P (Park) or D (Drive)

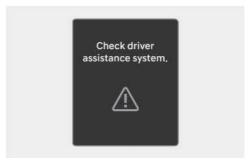
The brake pedal is depressed with sufficient power

#### Information

When Parking Collision-Avoidance Assist is activated while reversing, braking control will be released after 5 minutes and the parking brake will be engaged.

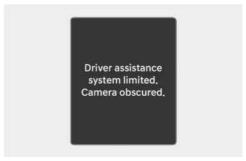
#### **Reverse Parking Collision-Avoidance Assist malfunction and limitations**

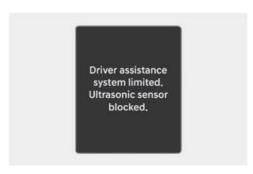
#### Reverse Parking Collision- Avoidance Assist malfunction



When Reverse Parking Collision-Avoidance Assist or other related functions are not working properly, the "Check driver assistance system." warning message appears on the instrument cluster, and Reverse Parking Collision-Avoidance Assist turns off automatically. We recommend that your vehicle be inspected by an authorized HYUNDAI dealer.

# Reverse Parking Collision-Avoidance Assist disabled



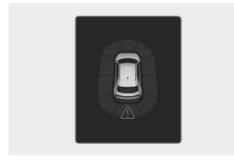


The "Driver assistance system limited. Camera obscured." or "Driver assistance system limited. Ultrasonic sensor blocked." warning message appears on the cluster if the following situations occur:

- The rear view camera or rear ultrasonic sensor(s) is covered with foreign material, such as snow or rain, etc.
- There is inclement weather, such as heavy snow, heavy rain, etc.

If this occurs, Reverse Parking Collision-Avoidance Assist may turn off or may not operate properly. Check whether the rear view camera and rear ultrasonic sensors are clean.

Information



A master warning light (<u>A</u>) appears in the relative directions in case of a malfunction or blinding of the ultrasonic sensors while the Reverse Parking Collision-Avoidance Assist (PCA) is active. You can check the message in the utility information view of the instrument cluster.

# Limitations of Reverse Parking Collision-Avoidance Assist

Reverse Parking Collision-Avoidance Assist may not assist braking or warn the driver even if there are pedestrians or objects under the following circumstances:

- · Problems with vehicle
  - Any non-factory equipment or accessory is installed
  - Your vehicle is unstable due to an accident or other causes
  - Bumper height or rear ultrasonic sensor installation has been modified
  - Wide-rear view camera(s) or ultrasonic sensor(s) is damaged

- Wide-rear view camera(s) or the ultrasonic sensor(s) is stained with foreign material, such as snow, dirt, etc.
- Wide-rear view camera(s) is obscured by a light source or by inclement weather, such as heavy rain, fog, snow, etc.
- · Problems with the surroundings
  - The surrounding is very bright or very dark
  - Outside temperature is very high or very low
  - The wind is either strong (above 20 km/h (12 mph)) or blowing perpendicular to the rear bumper
  - Objects generating excessive noise, such as vehicle horns, loud motorcycle vehicles or truck air brakes, are near your vehicle
  - An ultrasonic sensor with similar frequency is near your vehicle
  - The road is slippery or inclined
  - The image of the pedestrian in the front view camera is indistinguishable from the background
- · Problems with pedestrian or object
  - The pedestrians are difficult to detect
  - There is ground height difference between the vehicle and the pedestrian
  - The pedestrian is near the rear edge of the vehicle
  - The pedestrian is not standing upright
  - The pedestrian is either very short or very tall to detect
  - The pedestrian or cyclist is wearing clothing that easily blends into the background, making it difficult to detect
  - The pedestrian is wearing clothing that does not reflect ultrasonic waves well
  - Size, thickness, height, or shape of the object does not reflect ultrasonic waves well (for example, low object, narrow object, circular pillar, small pillar, corners of a square pillar, bush, curbs, carts, edge of a wall, etc.)
  - The pedestrian or the object is moving
  - The pedestrian or the object is very close to the rear of the vehicle
  - There is a large object such as a wall is behind the pedestrian or the object
  - The object is not located at the front or rear center of your vehicle
  - The object is not parallel to the rear bumper
  - The sensors cannot detect the pedestrians and objects
- · Problems with driving condition
  - The driver drives the vehicle immediately after shifting to R (Reverse) or D (Drive)
  - The driver accelerates or circles the vehicle
  - The vehicle is driven immediately after starting the vehicle

# WARNING

Take the following precautions when using Reverse Parking Collision-Avoidance Assist:

- · Always exercise extreme caution while driving. The driver is responsible for braking and safe driving.
- Always pay attention to road and traffic conditions while driving, whether or not there is a warning.
- Always look around your vehicle to make sure there are no pedestrians or objects before moving the vehicle.
- The performance of Reverse Parking Collision-Avoidance Assist may vary under certain conditions. If vehicle speed is above 4 km/h (2 mph), Reverse Parking Collision-Avoidance Assist will provide collision avoidance assist only when pedestrians are detected. Always look around and pay attention when driving your vehicle.
- Reverse Parking Collision-Avoidance Assist may operate differently under certain conditions. If the vehicle moves forward and backward repeatedly, Reverse Parking Collision-Avoidance Assist may fail to assist braking or to warn the driver. Always pay attention when driving your vehicle.
- Some objects may not be detected by the rear ultrasonic sensors due to the objects distance, size or material, all of which can limit the effectiveness of the sensor.
- Reverse Parking Collision-Avoidance Assist may not operate properly or may operate unnecessarily depending on the road conditions and the surroundings.
- Do not solely rely on Parking Collision-Avoidance Assist. Doing so may lead to vehicle damage or injuries.



### CAUTION

- Noise may be heard when sudden braking occurs to avoid a collision.
- If any other warning sound such as the seat belt warning chime is already generated, Parking Collision-Avoidance Assist warning may not sound.
- Parking Collision-Avoidance Assist may not work properly if the bumper has been damaged, replaced or repaired.
- Parking Collision-Avoidance Assist may not operate properly if interfered by strong electromagnetic waves.
- Playing the vehicle audio system at high volume may prevent passengers from hearing Parking Collision-Avoidance Assist warning sounds.
- · Turn off Parking Collision-Avoidance Assist when towing a trailer. If towing and moving in reverse, Parking Collision-Avoidance Assist will activate as it detects the trailer.
- The brake control may not operate properly depending on the status of ESC (Electronic Stability Control).

There will only be a warning when:

- The ESC (Electronic Stability Control) warning light is on
- ESC (Electronic Stability Control) is engaged in a different function



Take the following precautions to maintain optimal performance of the detecting sensors:

- · Always keep the wide-rear view cameras and ultrasonic sensors clean.
- Do not use any cleanser containing acid or alkaline detergents when cleaning the camera lens. Use only a mild soap or neutral detergent, and rinse thoroughly with water.
- Do not spray the wide-rear view cameras or the rear ultrasonic sensors or their surrounding area directly with a high pressure washer. It may cause the wide angle cameras or the ultrasonic sensors to malfunction.
- Do not apply objects, such as a bumper sticker or a bumper guard, near the wide angle cameras or ultrasonic sensors or apply paint to the bumper. Doing so may adversely affect the performance of Parking Collision-Avoidance Assist.
- Never disassemble or apply impact on the wide angle cameras or the ultrasonic sensors components.
- Do not apply unnecessary force on the wide-rear view cameras or the ultrasonic sensors. Reverse Parking Collision-Avoidance Assist may not operate properly if the wide angle cameras or the ultrasonic sensor(s) is forcibly moved out of proper alignment. We recommend that your vehicle be inspected by an authorized HYUNDAI dealer.

					n

Reverse Parking Collision-Avoidance Assist can detect a pedestrian or an object when:

- A pedestrian is standing behind the vehicle
- A large obstacle, such as a vehicle, is parked in the rear center of your vehicle

# Forward/Side/Reverse Parking Collision-Avoidance Assist (PCA)

tif equipped

Forward/Side/Reverse Parking Collision-Avoidance Assist can warn the driver or assist with braking to help reduce the possibility of collision with a pedestrian or an object while driving at low speed.

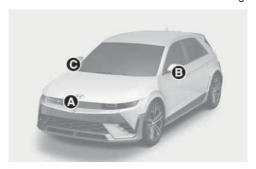
#### Detecting sensor





- [A] Front ultrasonic sensors
- [B] Front side ultrasonic sensors
- [C] Rear side ultrasonic sensors
- [D] Rear ultrasonic sensors

Refer to the picture above for the detailed location of the detecting sensors.





- [A] Wide-front view camera
- [B] Wide-side view camera (below the outside mirror)
- [C] Wide-side view camera (below the outside mirror)
- [D] Wide-rear view camera

Refer to the picture above for the detailed location of the detecting sensors.

### **Parking Collision-Avoidance Assist settings**

#### Warning methods



With the vehicle on, select **Settings** > **Vehicle** > **Driver assistance** > **Warning methods** in the infotainment system to select following:

• Warning volume: The warning volume can be adjusted.

#### Information

- If you change the Warning methods, the Warning methods of other Driver Assistance systems may change.
- · Warning method will maintain its last setting even if the vehicle is restarted.
- The setting menu may not be available for your vehicle depending on the vehicle features and specifications.

## Parking Safety

With the vehicle on, select or deselect **Settings** > **Vehicle** > **Driver assistance** > **Parking safety** from the Settings menu to set whether to use each function.

- If 'Front/Side Safety' is selected, Parking Collision-Avoidance Assist will warn the driver
  and assist with braking when a collision with a pedestrian or an object is imminent from
  the front or the side.
- If 'Rear Safety' is selected, Parking Collision-Avoidance Assist will warn the driver and assist with braking when a collision with a pedestrian or an object is imminent from behind.

#### Information

Forward/Side Safety' can be selected only when 'Rear Safety' is selected. If the vehicle is restarted, 'Rear Safety' is selected and 'Forward/Side safety' maintains the last setting.

### **Parking Collision-Avoidance Assist operation**

Turning Parking Collision-Avoidance Assist On/Off



Press and hold the Parking Safety ( $P_{i,k}$ ) button more than 2 seconds, 'Rear Active Assist' or to turn the Parking Collision-Avoidance Assist on or off.

## Operating conditions

If Parking Collision-Avoidance Assist detects a risk of collision behind the vehicle with a pedestrian or an object, Parking Collision-Avoidance Assist will warn the driver with an audible warning and warning message on the instrument cluster. If Surround View Monitor is operating, a warning will appear on the infotainment screen.

If collision is imminent, Parking Collision-Avoidance Assist will assist you with braking. Select "Rear safety" from the "Parking safety" menu of the infotainment system. Parking Collision-Avoidance Assist is enabled when the following conditions are satisfied:

#### **Rear Safety**

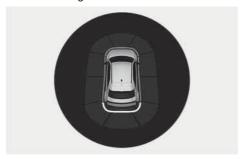
- · The tailgate and door are closed
- The Electronic Parking Brake (EPB) is released
- · A trailer is not connected
- The gear is shifted to R (Reverse)
- Vehicle speed is below 10 km/h (6 mph) (detecting pedestrians)
- Vehicle speed is below 4 km/h (2.4 mph) (detecting objects)
- Parking Collision-Avoidance Assist components such as the rear view camera and the rear ultrasonic sensors are in normal conditions

#### Front/Side Safety

- Front/Side safety is selected from the Parking Safety settings menu in the infotainment system.
- The tailgate and door are closed
- · The Electronic Parking Brake (EPB) is released
- · A trailer is not connected
- The gear is shifted to R (Reverse) or D (Drive)
- Vehicle speed is below 4 km/h (for pedestrians, objects)
- Parking Collision-Avoidance Assist components such as the rear view camera and the rear ultrasonic sensors are in normal conditions

When Parking Collision-Avoidance Assist activates, a line appears behind the vehicle image in the instrument cluster.

· Rear Safety: Behind the vehicle image



• Front/Side Safety: In front of vehicle image



#### Information

Parking Collision-Avoidance Assist operates only once after shifting the gear to R (Reverse) or D (Drive). To reactivate Parking Collision-Avoidance Assist, shift the gear from another gear to R (Reverse) or D (Drive).

#### Off conditions

#### Front/Side Safety

Braking assist is released 2 seconds after shifting to D (Drive) and 5 minutes after shifting to R (Reverse). Immediately depress the brake pedal and check vehicle surroundings.

Braking assist is also released in the following conditions when:

- The gear is shifted to P (Park) or R (Reverse)
- The brake pedal is depressed with sufficient power

#### **Rear Safety**

Braking assist is released after 5 minutes. Immediately depress the brake pedal and check vehicle surroundings.

Braking assist is also released in the following conditions when:

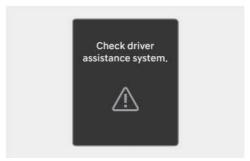
- The gear is shifted to P (Park) or D (Drive)
- The brake pedal is depressed with sufficient power

Information

When Parking Collision-Avoidance Assist is activated while reversing, braking control will be released after 5 minutes and the Electronic Parking Brake (EPB) will be engaged.

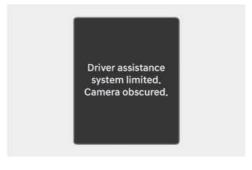
## Parking Collision-Avoidance Assist malfunction and limitations

## Parking Collision- Avoidance Assist malfunction



When Parking Collision-Avoidance Assist or other related functions are not working properly, the "Check driver assistance system." warning message will appear on the instrument cluster, and Parking Collision-Avoidance Assist will turn off automatically. We recommend that you have the vehicle inspected by an authorized HYUNDAI dealer.

## Parking Collision-Avoidance Assist disabled

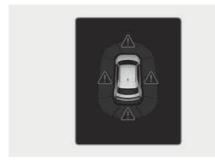


Driver assistance system limited. Ultrasonic sensor blocked.

The "Driver assistance system limited. Camera obscured." or "Driver assistance system limited. Ultrasonic sensor blocked." warning message will appear on the instrument cluster if the following situations occur:

- The camera(s) or ultrasonic sensor(s) is covered with foreign material, such as snow or rain, etc.
- There is inclement weather, such as heavy snow, heavy rain, etc.

If this occurs, Parking Collision-Avoidance Assist may turn off or may not operate properly. Check whether the cameras and ultrasonic sensors are clean.



A master warning light (<u>A</u>) appears in the relative directions in case of a malfunction or blinding of the ultrasonic sensors while the Reverse Parking Collision-Avoidance Assist (PCA) is active. You can check the message in the utility information view of the instrument cluster.

## Limitations of Parking Collision-Avoidance Assist

Parking Collision-Avoidance Assist may not assist braking or warn the driver even if there are pedestrians or objects under the following circumstances:

- · Problems with vehicle
  - Any non-factory equipment or accessory is installed
  - Your vehicle is unstable due to an accident or other causes
  - Bumper height or rear ultrasonic sensor installation has been modified
  - Wide-rear view camera(s) or ultrasonic sensor(s) is damaged
  - Wide-rear view camera(s) or the ultrasonic sensor(s) is stained with foreign material, such as snow, dirt, etc.
  - Wide-rear view camera(s) is obscured by a light source or by inclement weather, such as heavy rain, fog, snow, etc.
  - Your vehicle height is low or high due to heavy loads, abnormal tire pressure, etc.
- · Problems with the surroundings
  - The surrounding is very bright or very dark
  - Outside temperature is very high or very low
  - The wind is either strong (above 20 km/h (12 mph)) or blowing perpendicular to the rear bumper
  - Objects generating excessive noise, such as vehicle horns, loud motorcycle vehicles or truck air brakes, are near your vehicle
  - An ultrasonic sensor with similar frequency is near your vehicle
  - The road is slippery or inclined
  - The image of the pedestrian in the front view camera is indistinguishable from the background
- · Problems with pedestrian or object
  - The pedestrians are difficult to detect

- There is ground height difference between the vehicle and the pedestrian
- The pedestrian is near the rear edge of the vehicle
- The pedestrian is not standing upright
- The pedestrian is either very short or very tall to detect
- The pedestrian or cyclist is wearing clothing that easily blends into the background, making it difficult to detect
- The pedestrian is wearing clothing that does not reflect ultrasonic waves well
- Size, thickness, height, or shape of the object does not reflect ultrasonic waves well (for example, low object, narrow object, circular pillar, small pillar, corners of a square pillar, bush, curbs, carts, edge of a wall, etc.)
- The pedestrian or the object is moving
- The pedestrian or the object is very close to the rear of the vehicle
- There is a large object such as a wall is behind the pedestrian or the object
- The object is not located at the front or rear center of your vehicle
- The object is not parallel to the rear bumper
- The sensors cannot detect the pedestrians and objects
- Problems with driving condition
  - The driver drives the vehicle immediately after shifting to R (Reverse) or D (Drive)
  - The driver accelerates or circles the vehicle
  - The vehicle is driven immediately after starting the vehicle



### MARNING .

Take the following precautions when using Parking Collision-Avoidance Assist:

- Always exercise extreme caution while driving. The driver is responsible for braking and safe driving.
- Always pay attention to road and traffic conditions while driving, whether or not there is a warning.
- Always look around your vehicle to make sure there are no pedestrians or objects before moving the vehicle.
- The performance of Parking Collision-Avoidance Assist may vary under certain conditions. If vehicle speed is above 4 km/h (2 mph), Parking Collision-Avoidance Assist will provide collision avoidance assist only when pedestrians are detected. Always look around and pay attention when driving your vehicle.
- Parking Collision-Avoidance Assist may operate differently under certain conditions. If the vehicle moves forward and backward repeatedly, Parking Collision-Avoidance Assist may fail to assist braking or to warn the driver. Always pay attention when driving vour vehicle.
- Some objects may not be detected by the rear ultrasonic sensors due to the objects distance, size or material, all of which can limit the effectiveness of the sensor.
- Parking Collision-Avoidance Assist may not operate properly or may operate unnecessarily depending on the road conditions and the surroundings.
- Do not solely rely on Parking Collision-Avoidance Assist. Doing so may lead to vehicle damage or injuries.



## CAUTION

- Noise may be heard when sudden braking occurs to avoid a collision.
- If any other warning sound such as the seat belt warning chime is already generated, Parking Collision-Avoidance Assist warning may not sound.
- Parking Collision-Avoidance Assist may not work properly if the bumper has been damaged, replaced or repaired.
- Parking Collision-Avoidance Assist may not operate properly if interfered by strong electromagnetic waves.
- Playing the vehicle audio system at high volume may prevent passengers from hearing Parking Collision-Avoidance Assist warning sounds.
- Turn off Parking Collision-Avoidance Assist when towing a trailer. If towing and moving in reverse, Parking Collision-Avoidance Assist will activate as it detects the trailer.
- The brake control may not operate properly depending on the status of ESC (Electronic Stability Control).

There will only be a warning when:

- The ESC (Electronic Stability Control) warning light is on
- ESC (Electronic Stability Control) is engaged in a different function



## **CAUTION**

Take the following precautions to maintain optimal performance of the detecting sensors:

- Always keep the wide-rear view cameras and ultrasonic sensors clean.
- Do not use any cleanser containing acid or alkaline detergents when cleaning the camera lens. Use only a mild soap or neutral detergent, and rinse thoroughly with water.
- Do not spray the wide-rear view cameras or the rear ultrasonic sensors or their surrounding area directly with a high pressure washer. It may cause the wide angle cameras or the ultrasonic sensors to malfunction.
- Do not apply objects, such as a bumper sticker or a bumper guard, near the wide angle cameras or ultrasonic sensors or apply paint to the bumper. Doing so may adversely affect the performance of Parking Collision-Avoidance Assist.
- Never disassemble or apply impact on the wide angle cameras or the ultrasonic sensors components.
- Do not apply unnecessary force on the wide-rear view cameras or the ultrasonic sensors. Parking Collision-Avoidance Assist may not operate properly if the wide angle cameras or the ultrasonic sensor(s) is forcibly moved out of proper alignment. We recommend that you have the vehicle inspected by an authorized HYUNDAI dealer.

#### Information

Parking Collision-Avoidance Assist can detect a pedestrian or an object when:

- A pedestrian is standing behind the vehicle
- A large obstacle, such as a vehicle, is parked in the rear center of your vehicle

## Remote Smart Parking Assist 2 (RSPA 2)

## tif equipped

Remote Smart Parking Assist uses vehicle sensors to help the driver park and exit parking spaces remotely from outside the vehicle by controlling the steering wheel, vehicle speed, and gearshifts.

Function	Description
Remote Operation	Remotely moving forward or backward
Smart Parking or Remote Parking	Perpendicular reverse parking
	Diagonal reverse parking
	Parallel reverse parking
Smart Exit	Parallel forward exit

- · Remote Parking and Remote Operation function may be operated from outside the vehicle using the smart key.
- Smart Parking and Smart Exit function may be operated from inside the vehicle.
- · Smart Parking and Remote Parking function helps the driver with perpendicular reverse parking, diagonal reverse parking and parallel reverse parking.
- Smart Exit function helps the driver with parallel forward exit.
- When Remote Smart Parking Assist operates, Parking Distance Warning and Surround View Monitor will also operate. For more information, refer to the "Forward/Side/

Reverse Parking Distance Warning (PDW)" and "Surround View Monitor (SVM)" sections in this chapter.

• Remote Smart Parking Assist helps parking by recognizing the parking lines with the wide angle camera.

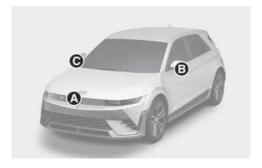
## Detecting sensors





- [A] Front ultrasonic sensors
- [B] Front corner ultrasonic sensors
- [C] Rear corner ultrasonic sensors
- [D] Rear ultrasonic sensors

Refer to the picture above for the detailed location of the detecting sensors.





- [A] Wide-front view camera
- [B] Wide-side view camera (below the outside mirror)
- [C] Wide-side view camera (below the outside mirror)
- [D] Wide-rear view camera

Refer to the picture above for the detailed location of the detecting sensors.



## **CAUTION**

Take the following precautions to maintain optimal performance of the detecting sensors:

- Never disassemble the ultrasonic sensor or sensor assembly, or cause any damage to it.
- · Remote Smart Parking Assist may malfunction if the vehicle bumper height or ultrasonic sensor installation has been modified or damaged. Any non-factory installed equipment or accessories may also interfere with the sensor performance.
- · When the ultrasonic sensor is frozen or stained with snow, dirt, or water, the sensor may not operate until the stains are removed using a soft cloth.
- Do not push, scratch, or strike the ultrasonic sensor. Sensor damage could occur.
- Do not spray the ultrasonic sensors or its surrounding area directly with a high pressure washer.
- Always keep the camera lens clean. If the lens is covered with foreign material, it may adversely affect camera performance and Remote Smart Parking Assist may not operate properly.
- · Do not manually adjust the rearview mirror or use Remote Smart Parking Assist after a hard impact on the rearview mirror. When a collision occurs or the outside rearview mirror is manually operated, Remote Smart Parking Assist may not operate properly.

## **Remote Smart Parking Assist settings**

## Warning Methods



With the vehicle on, go to **Settings** > **Vehicle** > **Driver assistance** > **Warning methods** from the Settings in the infotainment system to select the following:

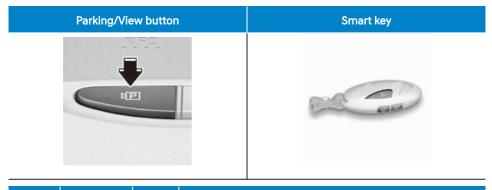
• Warning volume: The Warning volume can be adjusted.

#### Information

- If you change the Warning methods, Warning methods of other Driver Assistance systems may change.
- Warning Method will maintain its last setting even if the vehicle is restarted.
- The setting menu may not be available for your vehicle depending on the vehicle features and specifications.

## **Remote Smart Parking Assist operation**

## Remote Smart Parking Assist button



Location	Name	Symbol	Description
Inside vehicle	Parking/ View button	P	Press and hold the Parking/View button to turn on Remote Smart Parking Assist. Also, Forward/Reverse Parking Distance warning will automatically turn on. However, functions may differ depending on the situations. Refer

Location	Name	Symbol	Description	
			to each function's description for more information in the following pages. Press and hold the Parking/View button while Smart Parking or Smart Exit function is on to operate the function.	
	Remote Start button	HOLD	Press the Remote Start button after the door is locked with the vehicle off to start the vehicle remotely. Press the Remote Start button while Remote Parking or Remote Operation function is operating to end function operation.	
Smart key	Forward button	⊕† ⊕P	When using Remote Parking function, regardless of whic direction button is pressed, parking is supported while the button is pressed. When using the Remote Operation function, the vehicle moves in the direction of the button while the button is pressed.	
	Backward button	₽₽		

## Remote Operation

Operating order

Remote Operation operates in the following order:

- 1 Getting ready to remotely move forward and backward
- 2 Remotely moving forward and backward

## 1. Getting ready to remotely move forward and backward

There are two ways to operate Remote Operation function.



Method 1. Using the function with vehicle off

- Within a certain range from the vehicle press the door lock (♠) button on the smart key and lock all doors.
- Press and hold the Remote Start button ( ) within 4 seconds until the vehicle starts.

For more information on remotely starting the vehicle, refer to the "Remote start" section in chapter 6.



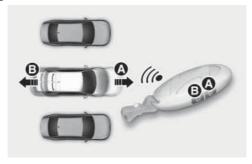
#### Method 2. Using the function with vehicle on

- 1 Park the vehicle in front of the space where you want to use Remote Operation function, and shift the gear to P (Park).
- 2 Press and hold the Parking/View (P) button to turn on Smart Parking Assist.
  - A message 'Under Remote Control' will appear on the infotainment system.
- 3 Get out of the vehicle with the smart key and close all doors.

#### Information

- 'Agree' must be selected on the infotainment system and the infotainment system has to operate properly to use Remote Operation function.
- Method 2 can be used after the vehicle has been driven above 5 km/h (3 mph).
- If the function is turned on again after parking is completed by Remote Smart Parking Assist, Remote Operation function can be used with Method 2.

## 2. Remotely moving forward and backward



- 1 Press and hold one of the Forward (🖟) or Backward (🖟) button on the smart key.
  - Remote Smart Parking Assist will automatically control the steering wheel, vehicle speed and gearshift. The vehicle will move in the direction of the button pressed.
  - While Remote Operation function is operating, if the you let the button, the vehicle
    will stop and function control will pause. The function will start operating again when
    the button is pressed and held again.

- 2 Hold down the Forward (음) or Back-ward (음) button until the vehicle reaches the target location.
- 3 When Remote Operation is done, get in the vehicle with the smart key or press the Remote Start ((2)) button on the smart key from outside the vehicle.
  - The message will appear on the infotainment system. The vehicle will automatically shift to P (Park) and engage the parking brake.
  - When the Remote Start ( ) button is pressed, the vehicle will turn off. If the driver is in the vehicle, the vehicle will retain ON position.

#### Information

- · Remote Operation can control the vehicle remotely using the smart key outside the vehicle.
- Check that all smart keys are outside the vehicle when using Remote Operation function.
- Remote Operation function will operate only when the smart key is within 4 m (13 ft.) from the vehicle. If there is no vehicle movement even when the Forward or Backward button is pressed on the smart key, check the distance to the vehicle and press the button again.
- The detecting range of the smart key may vary depending on the surroundings that are affected by radio waves such as transmission tower, broadcast station, etc.
- When remotely moving forward using Method 1, it is recognized as an exit situation, and the vehicle moves 4 m (13 ft.) to check for parking lines, pedestrians, animals or objects around the vehicle. After confirmation, the steering wheel is controlled according to the condition ahead.
- When remotely moving forward using Method 2, it is recognized as a parking situation, and will immediately control the steering wheel according to the condition ahead to assist with entering the parking space and aligning the vehicle. However, performance may reduce depending on the parking lines, pedestrians, animals, shape of objects, location, etc., around the vehicle.
- · For moving remotely backward, both Method 1 and 2 aligns the steering wheel first, and then will only move the vehicle straight.
- When your vehicle is being parked by the Remote Smart Parking Assist, a stopper in the parking space may reduce the vehicle alignment performance.

# **MARNING**

- When using Remote Operation function, make sure that all passengers have gotten out
  of the vehicle.
- If the vehicle's battery is discharged or Remote Smart Parking Assist malfunctions when parked in a narrow parking space, Remote Operation function will not operate. Always park your vehicle in a space wide enough for you to get in or out of your vehicle.
- Please note that depending on the parking space, you may not be able to exit from the space you have entered by using Remote Operation function.
- After parking, the surrounding may change due to the movement of surrounding vehicles. If this occurs, Remote Operation function may not operate.
- Before leaving the vehicle, close windows and sunroofs, and make sure the vehicle is
  off before locking the doors.

#### **Remote Operation function operation status**

Operation status	Smart key LED	Hazard warning light
Under control	Green LED continuously blinks	-
Pause	Red LED continuously blinks	Blinks
Off	Red LED illuminates for 4 seconds and then turns off	Blinks 3 times and turns off
Complete	Green LED illuminates for 4 seconds and then turns off	Blinks 1 time and turns off

#### Information

- Operation status by the hazard warning light may not be applicable based on the regulation of your country.
- If the smart key is not within the operating range from the vehicle (about 4 m (13 ft.)), the smart key LED will not illuminate or blink. Use the smart key within the operating range.

#### How to turn off Remote Operation function while operating

- Press the Parking/View (IP) button while the infotainment system guides the driver using method 2.
- Shift the gear from P (Park) to any other position while the infotainment system guides the driver using method 2.
- Press the Parking Safety (Pm) button or select 'Cancel' on the infotainment system.
- Press the Remote Start ( ) button on the smart key while the vehicle is being controlled by Remote Operation function. Remote Operation function will turn off. At this time, the vehicle will turn off.
- Get on the vehicle with the smart key. Remote Operation function will turn off. At this time, the vehicle will remain on.

The function will pause in the following conditions when:

- · There is a pedestrian, animal or object in the direction the vehicle is moving
- The door or trunk is open
- The Forward (🖟) or Backward (🖟) button is not continuously pressed
- Simultaneously pressing multiple buttons on a smart key
- The smart key is not operated within 4 m (13 ft.) from the vehicle
- Button of another smart key is pressed in addition to the operating smart key (except Remote Start button)
- Parking Collision-Avoidance Assist or Rear Cross-Traffic Collision-Avoidance Assist operates while the vehicle is being controlled in the reverse direction.
- The vehicle moves 7 m (22 ft.) while the smart key is pressed with Remote Operation function (maximum travel distance per button press)
- If the Parking Collision-Avoidance Assist is activated during forward/rear control

The function will cancel in the following conditions when:

When Remote Operation function is canceled, the vehicle will automatically stop, shift the gear to P (Park) and engage EPB (Electronic Parking Brake).

- The steering wheel is steered
- · The gear is shifted while the vehicle is moving
- · Operating EPB while the vehicle is moving
- The hood is open
- The brake pedal or accelerator pedal is depressed when all the doors are closed
- The smart key is outside the vehicle when the brake pedal is depressed while the driver's door is open
- Rapid acceleration occurs
- · Vehicle skid occurs
- The wheel is stuck by an obstacle and cannot move
- About 3 minutes and 50 seconds has passed after Remote Operation function has started to operate
- The slope of the road exceeds the operational range
- The function is paused for more than 1 minute
- The total travel distance of the vehicle has exceeded 14 m (45 ft.) after Remote Operation function operation
- The steering wheel, gearshift, braking, and drive controls are not working properly
- There is a problem with the smart key or the smart key battery is low
- ABS, TCS or ESC system operates due to slippery road conditions
- The alarm of the Theft Alarm System sounds
- · The charging door is open

## Smart Parking, Remote Parking

The parking function includes Smart Parking using the Parking/View (戶) button and Remote Parking using a smart key.

### Operating order

Parking function operates in the following order:

- 1 Getting ready for parking
- 2 Searching for parking space
- 3 Select parking type and operating mode
- 4 Smart Parking
- 5 Remote Parking

## 1. Getting ready for parking



- 1 With the vehicle turned on, depress the brake pedal and shift the gear to D (Drive) or N (Neutral).
- 2 Press and hold the Parking/View ([P]) button to turn on Remote Smart Parking Assist.

#### Information

- 'Agree' must be selected on the infotainment system and the infotainment system has
  to operate properly to use Parking function.
- If you drive above 5 km/h (3 mph) with the vehicle on, you may use the Parking function with the gear shifted to N (Neutral).

## 2. Searching for parking space



Slowly drive forward maintaining the distance of about 100 cm (40 in.) from the parked vehicles.

Searches for a parking space by detecting the parking lines or the spaces next to or in front and behind the parked vehicles.

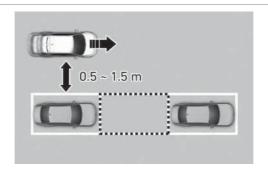
When searching for a parking space is complete, a message will appear on the infotainment system with an audible sound to notify the search is complete.

'Select Parking Type' will be displayed on the infotainment system and the selected parking space will appear on Top View screen of Surround View Monitor.

#### Information

- Remote Smart Parking Assist can only search for parking spaces when parking lines
  are visible or when there are parked vehicles, and the empty spaces created after
  driving or the empty spaces in front of a vehicle that has not yet been driven cannot be
  searched as the a parking space.
- While searching for a parking space, when vehicle speed is above 20 km/h (12 mph), a message will appear on the infotainment system informing you to slow down. When vehicle speed is above 30 km/h (18 mph), Parking function will turn off.
- Searching for a parking space will be completed when there is enough space to move the vehicle in addition to the parking space.
- Even if an audible sound is heard to notify that searching for a parking space is complete, search completion can be cancelled immediately depending on surroundings.

#### Information



- If the distance is below 50 cm (20 in.) or over 150 cm (59 in.), Remote Smart Parking Assist may not be able to search for a parking space.
- If you do not maintain a certain distance from the parked vehicle, the performance to search for a parking space may reduce.
- Due to abnormal performance of the ultrasonic sensor or the influence of the surroundings, Parking function may not be able to search for a parking space even if there is a parking space, or may search for a space that is not suitable for parking.
- If the parking space is on a incline or is diagonal, the parking type displayed may be different from the actual parking type which should be selected. If this occurs, do not select the parking type, and search for another parking space.

## 3. Select parking type and operating mode



Parking type - Perpendicular reverse (Left/Right), Parallel reverse (Left/Right)
 With the vehicle stopped by depressing the brake pedal, touch the infotainment system to select the desired parking type.

#### Information

- If you continue to drive without stopping after the parking type selection screen appears, Remote Smart Parking Assist will return to the previous stage and search for a parking space.
- If Parking function is cancelled unintentionally by pressing the Parking/View ([P]) button before the parking type is selected, you can return to the parking type selection stage by pressing and holding the button again while the vehicle is stopped.



## MARNING

Before selecting the Parking type, the driver should check whether the parking space is suitable.

If the searched parking space by Remote Smart Parking Assist is narrow or unsuitable for parking, do not select the Parking type and move the vehicle to search for another parking space.



• Operating mode - Remote Parking, Smart Parking

After selecting a parking type, the infotainment system will guide you with Remote Parking function and Parking function. Follow the instructions to operate Remote Smart Parking Assist.

#### Information \_

- Operating instructions will be displayed on the screen for each desired function you select.
- Do not take your foot off the brake pedal during the Parking function guide. When the vehicle moves, Remote Smart Parking Assist will turn off.

Information



If Remote Smart Parking Assist cannot activate Remote Parking function, only the Smart Parking guide will be displayed on the infotainment system.

## 4. Smart Parking





- 1 Press the Parking/View ([戶]) button when the vehicle is stopped by depressing the brake pedal.
- 2 Release the brake pedal while pressing the Parking/View (P) button.
  - · Remote Smart Parking Assist will automatically control the steering wheel, vehicle speed and gearshift.
  - While Smart Parking function is operating, if you do not hold down the Parking/View (P) button, the function will stop and function control will pause. The function will start operating again when the Parking/View ([P]) button is pressed and held again.
- 3 Press and hold the Parking/View (P) button until parking is completed.
  - When the vehicle reaches the target parking position, a message will appear on the infotainment system to inform you that parking is complete. The vehicle will automatically shift to P (Park) and engage EPB (Electronic Parking Brake).
- 4 If you need to change the vehicle's position or location, manually complete parking your vehicle.

#### Information

- Smart Parking function will not operate if the door is open or the seat belt is not fastened.
- · The parking location indicator is displayed on Surround View Monitor screen and is displayed until the vehicle enters the parking space for the first time by Smart Parking function.
- Vehicle speed can be adjusted by depressing the brake pedal while Smart Parking function is operating. However, the vehicle does not accelerate even when the accelerator pedal is depressed.
- Depending on parking environments, if the vehicle is stopped by a stopper, parking may be completed.

## 5. Remote Parking



- 1 Depress the brake pedal and shift the gear to P (Park).
- 2 Get out of the vehicle with the smart key, and close all doors.
- 3 Press one of the Forward (♣) or Back-ward (♣) button on the smart key.
  - While pressing the button, Remote Smart Parking Assist will automatically control the steering wheel, vehicle speed and gearshift.
  - While Remote Parking function is operating, if you do not hold down the button, the vehicle will stop and function control will pause. The function will start operating again when the button is pressed and held again.
- 4 Press and hold the Forward (1/2) or Back-ward (1/2) button until parking is completed.
  - When the vehicle reaches the target parking position, a message will appear on the infotainment system to inform you that parking is complete. The vehicle will automatically shift to P (Park), engage EPB (Electronic Parking Brake) and the vehicle will turn off.
- 5 If you need to change the vehicle's position or location, manually complete parking your vehicle.

#### Information

- When operating Remote Parking function, make sure all smart keys are outside of the vehicle.
- Remote Parking function will operate only when the smart key is within 4 m (13 ft.)
  from the vehicle. If there is no vehicle movement even when the Remote Forward or
  Backward button is pressed on the smart key, check the distance to the vehicle and
  press the button again.
- The detecting range of the smart key may vary depending on the surroundings that are affected by radio waves such as transmission tower, broadcast station, etc.
- The parking location indicator is displayed on Surround View Monitor screen and is displayed until the vehicle enters the parking space for the first time by Remote Parking function.
- Depending on parking environments, if the vehicle is stopped by a stopper, parking may be completed.



- When using Remote Parking function, make sure that all passengers have gotten out of the vehicle.
- After ending or turning off Remote Parking function, before leaving the vehicle, close windows and sunroofs, and make sure the vehicle is off before locking the doors.

## Parking function operation status

· Smart Parking function

Operation status	Turn signal
Under control	The turn signal of the parking direction blinks until the first reverse is complete.

· Remote Parking function

Operation status	Smart key LED	Hazard warning light	Turn signal
Under control	Green LED continuously blinks	-	The turn signal of the parking direction blinks until the first reverse is complete.
Pause	Red LED continuously blinks	Blinks	-
Off	Red LED illuminates for 4 seconds and then turns off	Blinks 3 times and turns off	-
Complete	Green LED illuminates for 4 seconds and then turns off	Blinks 1 time and turns off	-

#### Information

- Operation status by the hazard warning light and turn signal may not be applicable based on the regulation of your country.
- If the smart key is not within the operating range from the vehicle (about 4m (13 ft.)), the smart key LED will not illuminate or blink. Use the smart key within the operating range.

## How to turn off Parking function while operating

- Press the Parking/View (P) button in the following stage:
  - Searching for parking space
  - Select parking type
- Shift the gear to R (Reverse) in the following stage:

- Searching for parking space
- Select parking type
- Select operating mode
- Press the Parking Safety (Pm) button or select 'Cancel' on the infotainment system to turn off Parking function.
- While Smart Parking function is operating:
  - If the vehicle is stopped by depressing the brake pedal, and the gear is shifted, Parking function will turn off. At this time, EPB (Electronic Parking Brake) will not be engaged.
- While Remote Parking function is operating:
  - Press the Remote Start ( ) button on the smart key. Parking function will turn off.

#### Information

Get on the vehicle with the smart key. Parking function will turn off. At this time, the vehicle will remain on.

## The function will pause in the following conditions when:

- Smart Parking
  - There is a pedestrian, animal or object in the direction the vehicle is moving
  - The door or trunk is open
  - The driver's seat belt is not fastened
  - Parking Collision-Avoidance Assist or Rear-Cross Traffic Collision-Avoidance Assist operates while the vehicle is being controlled in the reverse direction
  - The Parking/View (ርቦ) button is not continuously pressed
  - The vehicle is stopped by depressing the brake pedal
  - If the Parking Collision-Avoidance Assist is activated during forward/rear control
- · Remote Parking
  - There is a pedestrian, animal or object in the direction the vehicle is moving
  - The door or trunk is open
  - The Forward (1) or Backward (1) button is not continuously pressed
  - Simultaneously pressing multiple buttons on a smart key
  - The smart key is not operated within 4 m (13 ft.) from the vehicle
  - Button of another smart key is pressed in addition to the operating smart key
  - Parking Collision-Avoidance Assist, Rear-Cross Traffic Collision-Avoidance Assist, or Parking Collision-Avoidance Assist operates
  - If the Parking Collision-Avoidance Assist is activated during forward/rear control

When Parking function is paused, the vehicle will automatically stop. If the condition that made the function to pause disappears, the function may operate again.

## The function will cancel in the following conditions when:

- Smart Parking
  - The steering wheel is steered

- The gear is shifted while the vehicle is moving
- Operating EPB while the vehicle is moving
- The hood is open
- The driver opens the door with the seatbelt unfastened
- Rapid acceleration occurs
- Vehicle skid occurs
- The wheel is stuck by an obstacle and cannot move
- There are pedestrians, animals or objects at the front and rear of the vehicle at the same time
- About 3 minutes and 50 seconds have past after Smart Parking function has started to operate
- The slope of the road exceeds the operational range
- The function is paused for more than 1 minute
- The steering wheel, gearshift, braking, and drive controls are not working properly
- ABS, TCS or ESC system operates due to slippery road conditions
- The charging door is open

When Smart Parking function is cancelled, the vehicle will automatically stop, shift the gear to P (Park) and engage EPB (Electronic Parking Brake).

- · Remote Parking
  - The steering wheel is steered
  - The gear is shifted
  - Operating EPB while the vehicle is moving
  - The hood is open
  - The brake pedal or accelerator pedal is depressed when all the doors are closed
  - The smart key is outside the vehicle when the brake pedal is depressed while the driver's door is open
  - Rapid acceleration occurs
  - Vehicle skid occurs
  - The wheel is stuck by an obstacle and cannot move
  - There are pedestrians, animals or objects at the front and rear of the vehicle at the same time
  - About 3 minutes and 50 seconds have past after Remote Parking function has started to operate
  - The slope of the road exceeds the operational range
  - The function is paused for more than 1 minute
  - The steering wheel, gearshift, braking, and drive controls are not working properly
  - There is a problem with the smart key or the smart key battery is low
  - ABS, TCS or ESC system operates due to slippery road conditions
  - The alarm of the Theft Alarm System sounds
  - The charging door is open

When Remote Parking function is cancelled, the vehicle will automatically stop, shift the gear to P (Park) and engage EPB (Electronic Parking Brake).

#### Smart Exit

Operating order

Smart Exit function operates in the following order:

- 1 Getting ready for exit
- 2 Checking space
- 3 Select exit direction
- 4 Smart Exit

## 1. Getting ready for exit



- 1 With the vehicle turned on, depress the brake pedal and shift the gear to P (Park) or N (Neutral).
- 2 Press and hold the Parking/View (단里) button to turn on Remote Smart Parking Assist.

#### Information

- 'Agree' must be selected on the infotainment system and the infotainment system has to operate properly to use Smart Exit function.
- Drive below 5 km/h (3 mph) with the vehicle on and shift the gear to P (Park) or N (Neutral), Smart Exit function can be used.
- If the function is turned on again after parallel parking is completed by Remote Smart Parking Assist, Smart Exit function can be used.

## 2. Checking space



When the vehicle is stopped by depressing the brake pedal, the vehicle sensors will detect the distance from nearby objects and check for space to exit.

When checking for space is complete, a message will appear on the infotainment system with an audible sound to notify the search is complete.



#### MARNING

- While checking for space, if there is a risk of collision with pedestrian, animal or object in the direction of vehicle exit, for your safety, Smart Exit function can be turned off.
- Even if check for space is completed, objects in the blind spot area cannot be detected by the sensors. The driver must directly check the blind spot area and continue using the function.

#### Information

Due to abnormal performance of the ultrasonic sensor or the influence of the surroundings, Parking function may not be able to search for a parking space even if there is a parking space, or may search for a space that is not suitable for parking.

For more information, refer to the "Remote Smart Parking Assist 2 (RSPA 2)" section in this chapter.

#### 3. Select exit direction



With the vehicle stopped by depressing the brake pedal, touch the infotainment system to select the desired exit direction.

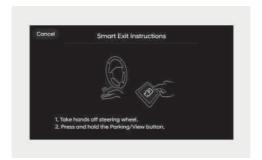
#### 634 Driver Assistance System



Before selecting the Exit Direction, the driver should check whether the space for exit is suitable.

If the searched exit space by Remote Smart Parking Assist is narrow or unsuitable (surrounding vehicles are parked vertically, etc.), do not use the Smart Exit function.

#### 4. Smart Exit



- 1 Press the Parking/View (P) button when the vehicle is stopped by depressing the brake pedal.
- 2 When the Parking/View ([P]) button is pressed, release the brake pedal according to the instructions.
  - Remote Smart Parking Assist will automatically control the steering wheel, vehicle speed and gearshift.
  - While Smart Exit function is operating, if you do not hold down the Parking/View (戶) button, the vehicle will stop and function control will pause. The function will start operating again when the Parking/View (戶) button is pressed and held again.
- 3 Press and hold the Parking/View (P) button until exiting is completed.
  - When the vehicle reaches the target exit location, a message will appear on the infotainment system to inform you that exit is completed.

#### Information

- Smart Exit function will not operate if the door is open or the seat belt is not fastened.
- Vehicle speed can be adjusted by depressing the brake pedal while Smart Exit function is operating. However, the vehicle does not accelerate even when the accelerator pedal is depressed.
- If exit is completed while depressing the brake pedal, Smart Exit function will complete with the gear in D (Drive).
- If exit is completed while depressing the accelerator pedal, you must take your foot off the accelerator pedal once for the accelerator pedal to operate.
- If there is no vehicle operation such as depressing the brake pedal or accelerator pedal
  within 4 seconds after exit is complete, the vehicle will automatically shift to P (Park)
  and engage EPB (Electronic Parking Brake).
- · After Exit function is complete, always check the surroundings before driving.

#### **Smart Exit operation status**

Operation status	Turn signal
Under control	The turn signal of the exit direction blinks until the exit is complete or Smart Exit is cancelled.

How to turn off Smart function while operating

- Press the Parking/View ([P]) button in the following stage:
  - Checking space
  - Select exit direction
- Shift the gear to R (Reverse) in the following stage:
  - Checking space
  - Select exit direction
- Press the Parking Safety (P<sub>™</sub>) button or select 'Cancel' on the infotainment system to turn off Exit function.
- While Smart Exit function is operating, if the vehicle is stopped by depressing the brake pedal, and the gear is shifted, Exiting function will turn off. At this time, EPB (Electronic Parking Brake) will not be engaged.

The function will pause in the following conditions when:

- There is a pedestrian, animal or object in the direction the vehicle is moving
- · The door or trunk is open
- · The driver's seat belt is not fastened
- Parking Collision-Avoidance Assist or Rear-Cross Traffic Collision-Avoidance Assist operates while the vehicle is being controlled in the reverse direction
- The Parking/View ([P]) button is not continuously pressed
- The vehicle is stopped by depressing the brake pedal
- If the Parking Collision-Avoidance Assist is activated during forward/rear control

When Exit function is paused, the vehicle will stop. If the condition that made the function to pause disappears, the function may operate again.

The function will cancel in the following conditions when:

- Smart Fxit
  - The steering wheel is steered
  - The gear is shifted while the vehicle is moving
  - Operating EPB while the vehicle is moving
  - The hood is open
  - The driver opens the door with the seatbelt unfastened
  - Rapid acceleration occurs
  - Vehicle skid occurs
  - The wheel is stuck by an obstacle and cannot move
  - There are pedestrians, animals or objects at the front and rear of the vehicle at the same time

- About 3 minutes and 50 seconds have past after Smart Exit function has started to operate
- The slope of the road exceeds the operational range
- The function was paused for more than 1 minute
- The steering wheel, gearshift, braking, and drive controls are not working properly
- ABS, TCS or ESC system operates due to slippery road conditions
- The charging door is open

When Smart Exit function is cancelled, the vehicle will automatically stop, shift the gear to P (Park) and engage EPB (Electronic Parking Brake).

## **Remote Smart Parking Assist malfunction and limitations**

### Remote Smart Parking Assist malfunction

Remote Smart Parking Assist check



When Remote Smart Parking Assist is not working properly, the 'Check Parking Assist' warning message will appear on the infotainment system. If the message appears, stop using Remote Smart Parking Assist, and we recommend that you have the vehicle inspected by an authorized HYUNDAI dealer.

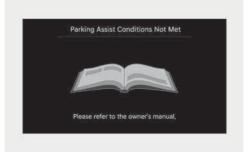
Remote Smart Parking Assist canceled



When Remote Parking Assist is operating, the function can be canceled, and the 'Parking Assist Canceled' warning message may appear regardless of the parking order. Other messages may appear depending on the situations. Follow the instructions provided on

the infotainment system while parking your vehicle with Remote Parking Assist. Always look around and pay attention when using Remote Smart Parking Assist.

Remote Smart Parking Assist standby



The 'Parking Assist Conditions Not Met' message will appears in the following circumstances:

- When 'Parking Assist Conditions Not Met' message appears when Parking/View ([P]) button has been pressed and held while Remote Smart Parking Assist is in standby.
   After a while, press and hold the Parking/View ([P]) button again to see if Remote Smart Parking Assist works.
- When the smart key's battery is low. Check the smart key battery level.

### Limitations of Remote Smart Parking Assist

In the following circumstances, Remote Smart Parking Assist performance to park or exit the vehicle may be limited, there may be a risk of collision, or Remote Smart Parking Assist may turn off. Park or exit the vehicle manually if necessary.

- · An object is attached to the steering wheel
- The vehicle is installed with a snow chain, spare tire or different size wheel
- Tire pressure is lower or higher than the standard tire pressure
- Your vehicle is loaded with cargo longer or wider than your vehicle or a trailer is connected to your vehicle
- There is a problem with the wheel alignment
- · Your vehicle is leaned severely to one side
- Your vehicle is equipped with a trailer hitch
- The license plate is installed differently from the original location
- There is a person, animal or object above or below the ultrasonic sensor when Remote Smart Parking Assist is activated
- · The parking space is curved or diagonal
- There is an obstacle such as a person, animal or object (trash can, bicycle, motorcycle, shopping cart, narrow pillar, etc.) near the parking space
- There is a circular pillar or narrow pillar, or a pillar surrounded by objects such as fire extinguisher, etc., near the parking space
- The road surface is bumpy (curbstone, speed bump, etc.)
- The road is slippery

- The parking space is near a vehicle with higher ground clearance or big, such as a truck, etc.
- The parking space is Inclined
- The road surface of parking space with lines is wet due to snow, puddles, or there is a road marker inside the parking space
- The road surface of the parking space with lines is bumpy due to road cracks
- The parking line is too thin or thick
- · The parking line is partially erased or blurred
- The parking line is obscured by people, animals, or objects such as snow, boxes, etc.
- · There is heavy wind
- · Operating Remote Smart Parking Assist on uneven roads, gravel roads, bushes, etc.
- · The performance of the ultrasonic sensor is affected by extremely hot or cold weather
- · The ultrasonic sensor is covered with snow or water
- An object that generates ultrasonic waves is nearby
- A wireless device with a transmission function operates near the ultrasonic sensors
- · Your vehicle is affected by another vehicle's Parking Distance Warning
- · The sensor is mounted or positioned incorrectly by an impact to the bumper
- The cameras is improperly mounted or out of position due to outside rearview mirror damage
- The ultrasonic sensor cannot detect the following objects when:
  - Sharp or slim objects, such as ropes, chains or small poles
  - Objects smaller than 100 cm (40 in.) in length and narrower than 14 cm (6 in.) in diameter
  - Objects which tend to absorb sensor frequency, such as clothes, spongy material or snow
  - A narrow object such as a corner of a square pillar
  - Person, animal or object near the ultrasonic sensor
- The cameras may not properly recognize or may not recognize the parking line and objects when:
  - There are small objects (curb, etc.), sharp objects, or thin objects (rope, etc.) around
  - People, animals or objects are too close or too far from the vehicle
  - Objects are on a higher position, such as pickup trucks
  - The camera is obscured by dirt or moisture
  - The camera is exposed to bright light
  - The surrounding is too dark
  - The light is reflected from the surface

Remote Smart Parking Assist may not operate properly under the following circumstances:

#### · Parking on inclines



Park or exit manually when the vehicle is on inclines.

· Parking on uneven road



Remote Smart Parking Assist may cancel when the vehicle slips, or the vehicle cannot move due to road conditions such as pebbles or fragmented stones.

· Parking behind a truck



Do not use Remote Smart Parking Assist around vehicles with higher ground clearance, such as a bus, truck, etc. It may lead to an accident.

Parking near a pillar



Remote Smart Parking Assist performance may reduce or collision with an obstacle may occur when there is a narrow object, circular pillar, square pillar, or a pillar surrounded by objects such as a fire extinguisher, etc., near the parking space. The driver should park the vehicle manually.

· Paking next to a misaligned vehicle



If Remote Smart Parking Assist is used when parking in a space next to misaligned vehicles, your vehicle may not be parked side by side.

However, if there is a parking line and it is detected properly, your vehicle will park side by side with the parking line.

• Leaving a parking space near a wall or parking in a narrow space



- Remote Smart Parking Assist may not operate properly when leaving a parking space that is narrow and near a wall. Always check for pedestrians, animals, objects while leaving.
- For your safety, Remote Smart Parking Assist does not search for parking spaces at areas with narrow parking spaces that are narrower than the minimum space required for parking.
  - Remote Smart Parking Assist may not operate properly when parking in a narrow space. Always check for pedestrians, animals, objects while parking.
- Parking in snow



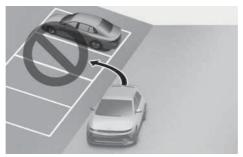
Snow may interfere with the operation of the ultrasonic sensor and wide view camera, or Remote Smart Parking Assist may cancel if the road is slippery while parking.

Abnormal parking space



Remote Smart Parking Assist does not work properly when the parking lines are not parallel. Do not park although the parking space is recognized by the sensor.

· Inclined parking space



Remote Smart Parking Assist does not work properly on a inclined or curved road surface. Do not park although the parking space is recognized by the sensor.

• Parking diagonal



Remote forward function may not operate properly in a diagonal parking space.

# **MARNING**

Take the following precautions when using Remote Smart Parking Assist:

- The driver is responsible for safe parking and exit when using Remote Smart Parking Assist.
- When using Remote Smart Parking Assist, stay out of the way in the direction the vehicle moves for your safety.
- Always check surroundings when using Remote Smart Parking Assist. You may collide
  with pedestrians, animals, or objects if they are near the sensor or are in the sensor's
  blind spot area.
- A collision may occur if a pedestrian, animal, or object suddenly appears while Remote Smart Parking Assist is operating.
- Do not use Remote Smart Parking Assist when under the influence of alcohol.
- Do not let children or other people to use the smart key.
- If Remote Smart Parking Assist is used continuously for a long period, it may adversely affect Remote Smart Parking Assist performance.
- Remote Smart Parking Assist may not operate properly if the vehicle needs wheel alignment adjustment such as when the vehicle tilts to one side. We recommend that you have the vehicle inspected by an authorized HYUNDAI dealer.
- Noise may be heard when braking occurs by Remote Smart Parking Assist or when the brake pedal is depressed by the driver.
- Remote Smart Parking Assist may suddenly apply the brake to avoid collision with pedestrian, animal, or object.
- Use Remote Smart Parking Assist only in a parking space that is large enough for the vehicle to move safely.
- If Remote Smart Parking Assist does not operate properly, we recommend that you have the vehicle inspected by an authorized HYUNDAI dealer.

#### NOTICE

- If the 3rd stage warning (continuous beep) of the Forward/Reverse Parking Distance
  Warning sounds while Remote Smart Parking Assist is operating, it means the obstacle
  detected is close to your vehicle. At this time, Remote Smart Parking Assist will
  temporarily stop operating. Make sure there are no pedestrians, animals, or objects
  around your vehicle.
- Depending on brake operation, the stop lights may come on while the vehicle is moving.
- If the vehicle is remotely started that has been parked in cold weather for a long time, the operation of Remote Parking function may be delayed or canceled depending on vehicle condition.

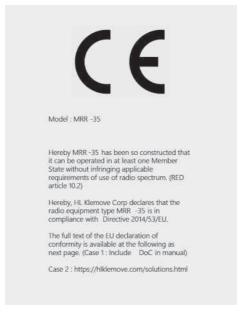
### **Declaration of conformity**

#### Front radar

### tif equipped

The radio frequency components complies:

• For Europe and other Europe territories



· For United Kingdom



### Front corner radar / Rear corner radar

### tif equipped

The radio frequency components complies:

### · For Europe and CE certified countries

Declaration of Conformity Radiocontrolled Vehicle components



Hereby, APTIV, 42367 Wuppertal declares th at this 2H5TR is in compliance with the essen tial requirements and other relevant provisions of Directive 2014/53/EU (RED).

The original declaration of conformity can be accessed at the following link: www.aptiv.com/automotive-homologation

frequency band 76-77 GHz Maximum Output Power 30 dBm (1,0 W)

· For Japan

This device is granted pursuant to the Jap anese Radio Law

under the grant ID n°: 203-JN1244

This device should not be modified (othe rwise the granted designation number will become invalid)

本製品は、電波法に基づく特定無線設備の技 作基準適合証明などを受けております。 認証 番号: 203-JN1244

本製品の改造は禁止されています。 (適合証明番号などが無効となります。)

· For Gana

NCA approved: 7E6-M1-X63-SRD

· For Singapore

Complies with IMDA Standards DA 103787 · For United Arab Emirates



TDRA United Arab Emirates
From United State Emirates
LARTE EMISTACE
Model EMITA
From United State
From



For Morocco

AGREE PAR L'ANRT MAROC Numéro d'agrément : MR00032369ANRT2022 Date d'agrément : 22/03/2022

· For Zambia



· For Paraguay



· For Oman

Oman – TRA D172299 TRA/TA-R/13542/22 · For Republic of South Africa



· For Senegal

AGREE PAR ARTP SENEGAL

Numéro d'agrément : 072229/AG/ER

· For Jordan

TRC/31/9883/2022

· For Australia



· For United Kingdom



Hereby, APTIV, 42367 Wuppertal declares th at this 2H5TR is in compliance with the essen tial requirements and other relevant provisio ns of Directive Radio Equipment Regulations 2017.

frequency band 76-77 GHz Maximum Output Power 30 dBm (1,0 W)

### · For Serbia



• For Nigeria



· For Malaysia



### · For Pakistan



#### · For Israel

ול מתוכן קורותים האבירונטים?

עם החומים האבירונטים של ארייה הרשמים על המעבר יותבן מובינון, עם יחודי הוגום כייו בער החומים האבירונטים על הייו הייו בער האבירונטים או בער הייו בער האבירונטים או בער האבירונטים און בער האבירונטים או בער האבירונטים אובירונטים או בער האבירונטים אובירונטים אובירונטים אובירונטים אובירונטים אובירונטים או בער ה

#### · For Mexico

#### IFETEL: RCPAP2H22-1601

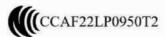
"La operación de este equipo está sujeta a las siguientes dos condiciones: (1) es posible que este equipo o dispositivo no cause interferencia perjudicial y (2) este equipo o dispositivo debe aceptar cualquier interferencia, incluyendo la que pueda causar su operación no deseada."

#### · For Indonesia

### 83300/SDPPI/2022 10976



#### · For Taiwan



電信法第 48 條,低功率電波輻射性電機管理 辦法

### 第十二條

經型式認證合格之低功率射頻電機。非經許 可、公司、商號或使用者均不得擅自變更頻 率、加大功率或變更原設計之特性及功能。

低功率射頻電機之使用不得影響飛航安全及 子擾合法通信;經濟現有子擾現象時,應立 即停用,並改善至無干攬時方得繼續使用。 前項合法通信,指依電信法規定作業之無線 電通信。低功率射頻電機須忍受合法通信或 工業、科學及醫療用電波輻射性電機設備之 干擾.

#### Article 12

Without permission, any company, firm or user shall not alter the frequency, increas e the power, or change the characteristics and functions of the original design of the certified lower power frequency electric m achinery.

#### Article 14

The application of low power frequency el ectric machineries shall not affect the nav igation safety nor interface a legal commu nication, if an interference is found, the s ervice will be suspended until improveme nt is made and the interference no longer



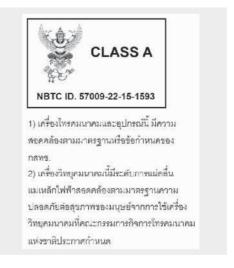
04905-22-10187

Este equipamento opera em caráter secundário, isto é, não tem direito à proteção contra interferência prejudicial, mesmo de estações do mesmo tipo, e não pode causar interferência a sistemas operando em caráter primário.

### · For Philippines



#### For Thailand



#### · For Ukraine



#### UA RF: 1APTV 2HTR

справжнім (найменування виробника) заявляє, що тип радіообладнання (позначення типу радіообладнання) відповідає Технічному регламенту радіообладнання;

повний текст декларації про відповідність доступний на веб-сайті за такою адресою: www.aptiv.com/automotivehomologation

#### · For China

车辆驾驶辅助雷达系统型号: 2H5TR 执行标准: 汽车雷达无线电管理暂行规定 2021 1 81号文

频率范围:76-77 GHz

放射功率:等效全向辐射功率(EIRP) 30dBm 天线类型:印删阵列天线

用户控制:不可 使用温度:-40°C~+85°C

使用温度: ~40 C~ +85 ( 电压: DC 12.0V CMIIT ID: 2022LJ18795

不得擅自更改发射频率、加发射功率(包括额外加 装射频功率放大器),不得擅自外接天线或改用其 它发射天线

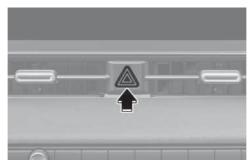
使用时不得对各种合法的无线电通信业务产生有 害干扰;一旦发现有干扰现象时,应立即停止使用, 并采取措施消除干扰后方可继续使用

使用做功率无线电设备,必须耐受各种无线电业 务的干扰或工业、科学及医疗应用设备的辐射干 扰

机场等的电磁环境保护区域内使用微功率设备, 应当遵守电磁环境保护及相关行业主管部门的规 定

# 8. Emergency situations

### Hazard warning flasher



The hazard warning flasher serves as a warning to other drivers to exercise extreme caution when approaching, overtaking, or passing your vehicle.

It should be used whenever emergency repairs are being made or when the vehicle is stopped near the edge of a roadway.

To turn the hazard warning flasher on or off, press the hazard warning flasher button with the Start/Stop button in any position. The hazard warning flasher button is located in the center fascia panel. All turn signal lights will flash simultaneously.

- The hazard warning flasher operates regardless of whether your vehicle is ON (READY indicator ON) or not.
- The turn signals do not work when the hazard flasher is on.

### In case of an emergency while driving

### If the vehicle stalls while driving

- Reduce your speed gradually, keeping a straight line. Move cautiously off the road to a safe place.
- · Turn on your hazard warning flasher.
- Try to start the vehicle again. If your vehicle will not start, we recommend that you contact an authorized HYUNDAI dealer or seek other qualified assistance.

### If the vehicle stalls at a crossroad or crossing

If the vehicle stalls at a crossroads or crossing, if safe to do so, shift the gear to N (Neutral) and then push the vehicle to a safe location.

To stay N (Neutral) while the vehicle is off, refer to the "To stay in N (Neutral) when vehicle is OFF" section in chapter 6.

### If you have a flat tire while driving

If a tire goes flat while you are driving:

- Take your foot off the accelerator pedal and let the vehicle slow down while driving straight ahead. Do not apply the brakes immediately or attempt to pull off the road as this may cause loss of vehicle control resulting in an accident. When the vehicle has slowed to such a speed that it is safe to do so, brake carefully and pull off the road. Drive off the road as far as possible and park on firm, level ground. If you are on a divided highway, do not park in the median area between the two traffic lanes.
- When the vehicle is stopped, press the hazard warning flasher button, shift the gear to P (Park), apply the parking brake, and press the Start/Stop button to the OFF position.
- Have all passengers get out of the vehicle. Be sure they all get out on the side of the vehicle that is away from traffic.
- When changing a flat tire, follow the instructions provided later in this chapter.

### If the vehicle does not start

### Confirm the EV battery is not low on the charge gauge

- Be sure the gear is in P (Park). The vehicle starts only when the gear is in P (Park).
- Check the 12 V battery connections to be sure they are clean and tight.
- Turn on the interior light. If the light dims or goes out when you operate the starter, the 12 V battery is drained.

Do not push or pull the vehicle to start it. This could cause damage to your vehicle.

### **Jump starting (12 V battery)**

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.



To prevent SERIOUS INJURY or DEATH to you or bystanders, always follow these precautions when working near or handling the battery:

Always read and follow instructions carefully when handling a battery.



Wear eye protection designed to protect the eyes from acid splashes.



Keep all flames, sparks, or smoking materials away from the battery.



Hydrogen is always present in battery cells, is highly combustible, and may explode if ignited.



Keep batteries out of reach of children.



Batteries contain sulfuric acid which is highly corrosive. Do not allow acid to contact your eyes, skin or clothing.

If acid gets into your eyes, flush your eyes with clean water for at least 15 minutes and get immediate medical attention. If acid gets on your skin, thoroughly wash the area. If you feel pain or a burning sensation, get medical attention immediately.



- When lifting a plastic-cased battery, excessive pressure on the case may cause battery acid to leak. Lift with a battery carrier or with your hands on opposite corners.
- Do not attempt to jump start your vehicle if your battery is frozen.

- NEVER attempt to recharge the battery when the vehicle's battery cables are connected to the battery.
- The electrical ignition system works with high voltage.
   NEVER touch these components with the vehicle running or when the Start/Stop button is in the ON position.
- The electrical ignition system works with high voltage. NEVER touch these components with the READY indicator ON or when the Start/Stop button is in the ON position.
- Do not allow the (+) and (-) jumper cables to touch. It may cause sparks.
- The battery may rupture or explode when you jump start with a low or frozen battery.
- Do not directly connect the (-) to the jump cable. Connect the (-) to the one of the metallic parts located far from the jump cable in the vehicle. The direct (-) connection to the jump cable may cause an explosion.
- Be sure to use only 12 V battery to jump start. Using batteries with other voltages to jump start can damage the battery or even provoke an explosion.

### Jump starting procedure

Information

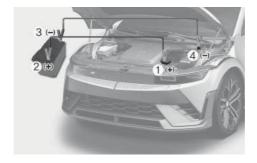
When you jump start your vehicle, use the jumper terminal in the motor compartment.

- 1 Position the vehicles close enough that the jumper cables reach, but do not allow the vehicle body parts to contact.
- 2 Avoid fans or any moving parts in the motor compartment at all times, even when the vehicles are turned off.
- 3 Turn off all electrical devices such as radios, lights, air conditioning, etc. Put the vehicles in P (Park) and set the parking brake. Turn both vehicles OFF.
- 4 Open the hood.
- 5 Remove the motor compartment fuse box cover.



#### CAUTION

Before jump starting, make sure to correctly identify the positive (+) and negative (-) terminals to avoid reverse polarity connections.



- 6 Connect the jumper cables in the exact sequence shown in the illustration. First connect one jumper cable to the red, positive (+) jumper terminal of your vehicle (1).
- 7 Connect the other end of the jumper cable to the red, positive (+) battery/jumper terminal of the assisting vehicle (2).
- 8 Connect the second jumper cable to the black, negative (-) battery/jumper terminal of the assisting vehicle (3).
- 9 Connect the other end of the second jumper cable to the black, negative (-) chassis ground of your vehicle (4).

Do not allow the jumper cables to contact anything except the correct battery or jumper terminals or the correct ground. Do not lean over the battery when making connections.



### WARNING

Do not connect the jumper cable to the negative (-) jumper terminal of the discharged battery. A spark could cause the battery to explode and lead to a personal injury or vehicle damage.

- 10 Start the assisting vehicle and let it run at about for a few minutes. Then start your
- 11 Keep your vehicle operating for at least 30 minutes at idle or driving to assure your battery receives enough charge to be able to start on its own after the vehicle is shut off. A complete dead battery may require as long as 60 minutes runtime to fully recharge it. If vehicle is run for less, the battery may not restart.

If your vehicle does not start after a few attempts, it probably requires servicing. In this event please seek qualified assistance. If the cause of your battery discharging is not apparent, we recommend that your vehicle be inspected by an authorized HYUNDAI dealer.

Disconnect the jumper cables in the exact reverse order you connected them:

- 1 Disconnect the jumper cable from the black, negative (-) chassis ground of your vehicle (4).
- 2 Disconnect the other end of the jumper cable from the black, negative (-) battery/ chassis ground of the assisting vehicle (3).
- 3 Disconnect the second jumper cable from the red, positive (+) battery/jumper terminal of the assisting vehicle (2).
- 4 Disconnect the other end of the jumper cable from the red, positive (+) jumper terminal of your vehicle (1).

### Information



An inappropriately disposed battery can be harmful to the environment and human health. Dispose of the battery according to your local law(s) or regulations.

### NOTICE

To prevent damage to your vehicle:

- Only use a 12 V power supply (battery or jumper system) to jump start your vehicle.
- Do not attempt to jump start your vehicle by push-starting.
- · Always be sure that the battery cover and cable are tightened after finishing jump start your vehicle. Otherwise is may cause damage to the relevant parts, noise trouble, or entrance of foreign substances.



### MARNING

While jump starting your vehicle, avoid the positive (+) and negative (-) cables to come in contact. A spark could cause personal injury.

### Tire pressure monitoring system (TPMS)





- 1. Low Tire Pressure Telltale/TPMS Malfunction Indicator
- 2. Low Tire Pressure Position Telltale and Tire Pressure Telltale (Shown on the cluster display)

### **Check tire pressure**



- You can check the tire pressure in the Utility view mode on the cluster.
   Refer to the "Cluster display control" section in chapter 4.
- Tire pressure appears after a few minutes of driving. If the tire pressure does not appear when the vehicle is stopped, the message, "Drive to display" appears.
- The displayed tire pressure values may differ from those measured with a tire pressure gauge.
- You can change the tire pressure unit in the infotainment system.

### Select Settings > General > Unit > Tire pressure unit > psi/kPa/bar

### Information

The infotainment system may change after software updates. For more information, refer to the manual provided in the infotainment system and the quick reference guide.

### Tire pressure monitoring system



#### WARNING

Over-inflation or under-inflation can reduce tire life, adversely affect vehicle handling, and lead to sudden tire failure that may cause loss of vehicle control resulting in a collision.

Each tire, including the spare (if provided), should be checked monthly when cold and inflated to the inflation pressure recommended by the vehicle manufacturer on the vehicle placard or tire inflation pressure label. (If your vehicle has tires of a different size than the size indicated on the vehicle placard or tire inflation pressure label, you should determine the proper tire inflation pressure for those tires.)

As an added safety feature, your vehicle has been equipped with a tire pressure monitoring system (TPMS) that illuminates a low tire pressure telltale when one or more of your tires is significantly under-inflated. Accordingly, when the low tire pressure telltale illuminates, you should stop and check your tires as soon as possible, and inflate them to the proper pressure. Driving on a significantly under-inflated tire causes the tire to overheat and can lead to tire failure.

Under-inflation also reduces energy efficiency and tire tread life, and may affect the vehicle's handling and stopping ability.

Please note that the TPMS is not a substitute for proper tire maintenance, and it is the driver's responsibility to maintain correct tire pressure, even if under-inflation has not reached the level to trigger illumination of the TPMS low tire pressure telltale.

Your vehicle has also been equipped with a TPMS malfunction indicator to indicate when the system is not operating properly. The TPMS malfunction indicator is combined with the low tire pressure telltale. When the system detects a malfunction, the telltale will flash for about one minute and then remain continuously illuminated. This sequence will continue upon subsequent vehicle start-ups as long as the malfunction exists.

When the malfunction indicator is illuminated, the system may not be able to detect or signal low tire pressure as intended. TPMS malfunctions may occur for a variety of reasons, including the installation of replacement or alternate tires or wheels on the vehicle that prevent the TPMS from functioning properly.

Always check the TPMS malfunction telltale after replacing one or more tires or wheels on your vehicle to ensure that the replacement or alternate tires and wheels allow the TPMS to continue to function properly.

#### NOTICE

We recommend that the system be inspected by an authorized HYUNDAI dealer if:

- The Low Tire Pressure Telltale/TPMS Malfunction Indicator does not illuminate for 3 seconds when the Start/Stop button is moved to the ON position or the vehicle is running.
- The TPMS Malfunction Indicator remains illuminated after blinking for about 1 minute.
- The Low Tire Pressure Position Telltale remains illuminated.

### Low tire pressure indicator

Low Tire Pressure Warning Light



### Low tire pressure position and tire pressure telltale



When the tire pressure monitoring system warning indicator ((1)) is illuminated and a warning message appears on the cluster display, one or more of your tires is significantly under-inflated. The Low Tire Pressure Position Telltale will indicate which tire is significantly under inflated by illuminating the corresponding position light.

If either telltale illuminates, immediately reduce your speed, avoid hard cornering and anticipate increased stopping distances. You should stop and check your tires as soon as possible. Inflate the tires to the proper pressure as indicated on the vehicle's placard or tire inflation pressure label located on the driver's side center pillar outer panel.

If you cannot reach a service station or if the tire cannot hold the newly added air, replace the low pressure tire with the spare tire.

The Low Tire Pressure position indicator will remain on and the TPMS Malfunction Indicator may blink for one minute and then remain illuminated until you have the low pressure tire repaired and replaced on the vehicle.



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, 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 may contribute to loss of vehicle control and increased braking distances.

Continued driving on low pressure tires may cause the tires to overheat and fail.

### **TPMS** malfunction indicator



The TPMS Malfunction Indicator ((!)) illuminates after it blinks for about one minute when there is a problem with the Tire Pressure Monitoring System.

We recommend that you have the system inspected by an authorized HYUNDAI dealer as soon as possible.

#### NOTICE

If there is a malfunction with the TPMS, the individual tire pressures on the cluster display are not available. We recommend that the system be inspected by an authorized HYUNDAI dealer as soon as possible.

### NOTICE

The TPMS Malfunction Indicator may illuminate after blinking for one minute if the vehicle is near electric power supply cables or radio transmitters such as police stations, government and public offices, broadcasting stations, military installations, airports, transmitting towers, etc.

Additionally, the TPMS Malfunction Indicator may illuminate if snow chains are used or if electronic devices such as computers, chargers, remote starters, navigation, etc. are near the vehicle. This may interfere with normal operation of the TPMS.

### Changing a tire with TPMS

If you have a flat tire, the Low Tire Pressure and Position telltales come on. We recommend that the flat tire be repaired by an authorized HYUNDAI dealer as soon as possible.

#### NOTICE

It is recommended that you do not use a puncture-repairing agent not approved by HYUNDAI dealer or the equivalent specified for your vehicle to repair and/or inflate a low pressure tire. Tire sealant not approved by HYUNDAI dealer or the equivalent specified for your vehicle may damage the tire pressure sensor.

You may not be able to identify a tire with low pressure by simply looking at it. Always use a good quality tire pressure gauge to measure. Please note that a tire that is hot (from being driven) has a higher pressure measurement than a tire that is cold.

A cold tire means the vehicle has been sitting for 3 hours and driven for less than 1.6 km (1 mile) in that 3 hour period.

Allow the tire to cool before measuring the inflation pressure. Always make sure the tire is cold before inflating to the recommended pressure.



### MARNING

- 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 pedal, 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 and may void the warranty.

## **MARNING**

- Do not modify the vehicle; it may interfere with the TPMS function.
- The wheels on the market do not have a TPMS sensor. For your safety, we recommend that you use parts for replacement from an HYUNDAI dealer.
- If you use the wheels on the market, use a TPMS sensor approved by an authorized HYUNDAI dealer or the equivalent approved for your vehicle. If your vehicle is not equipped with a TPMS sensor or TPMS does not work properly, you may fail the periodic vehicle inspection conducted in your country.

### If you have a flat tire (with Tire Mobility Kit)



For safe operation, carefully read and follow the instructions in this manual before use.

- 1. Compressor
- 2. Sealant bottle

The tire mobility kit is a temporary fix to the tire we recommend the tire be inspected by an authorized HYUNDAI dealer or the equivalent approved for your vehicle as soon as possible.



### CAUTION

When two or more tires are flat, do not use the tire mobility kit because the supported one sealant of Tire Mobility Kit is only used for one flat tire.



### MARNING

Do not use the Tire Mobility Kit to repair punctures in the tire walls. This can result in an accident due to tire failure.



### WARNING

Have your tire repaired as soon as possible. The tire may lose air pressure at any time after inflating with the Tire Mobility Kit.

### Introduction

With the Tire Mobility Kit you stay mobile even after experiencing a tire puncture.

The compressor and sealing compound system effectively and comfortably seals most punctures in a passenger car tire caused by nails or similar objects and reinflates the tire.

After you ensure that the tire is properly sealed you can drive cautiously on the tire (distance up to 200 km (120 mi.)) at a max. speed of 80 km/h (50 mph) in order to reach a service station or tire dealer for the tire replacement.

It is possible that some tires, especially with larger punctures or damage to the sidewall, cannot be sealed completely.

Air pressure loss in the tire may adversely affect tire performance.

For this reason, you should avoid abrupt steering or other driving maneuvers, especially if the vehicle is heavily loaded or if a trailer is in use.

The Tire Mobility Kit is not designed or intended as a permanent tire repair method and is to be used for one tire only.

This instruction shows you step by step how to temporarily seal the puncture simply and reliably.

Read the section Notes on the safe use of the Tire Mobility Kit.



### ▲ WARNING

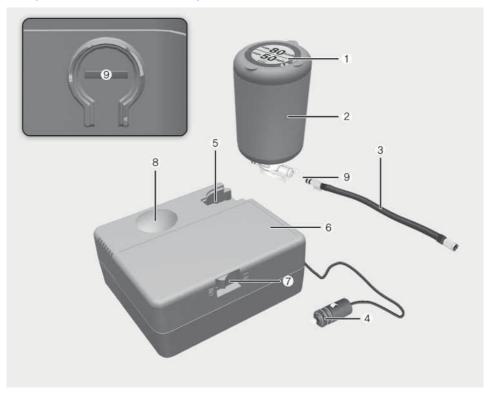
Do not use the TMK if a tire is severely damaged by driving run flat or with insufficient air pressure.

Only punctured areas located within the tread region of the tire can be sealed using the TMK.

### Notes on the safe use of the Tire Mobility Kit

- Park your car at the side of the road so that you can work with the Tire Mobility Kit away from moving traffic.
- To be sure your vehicle will not move, even when you are on fairly level ground, always set your parking brake.
- Only use the Tire Mobility Kit for sealing/inflation passenger car tires. Only punctured areas located within the tread region of the tire can be sealed using the tire mobility kit.
- Do not use on motorcycles, bicycles or any other type of tires.
- When the tire and wheel are damaged, do not use Tire Mobility Kit for your safety.
- Use of the Tire Mobility Kit may not be effective for tire damage larger than about 4 mm (0.16 in.).
- If the tire cannot be made roadworthy with the Tire Mobility Kit, we recommend that you contact an authorized HYUNDAI dealer.
- Do not use the Tire Mobility Kit if a tire is severely damaged by driving run flat or with insufficient air pressure.
- Do not remove any foreign objects such as nails or screws that have penetrated the tire.
- Provided the car is outdoors, leave the vehicle is ON (READY indicator ON). Otherwise operating the compressor may eventually drain the car battery.
- · Never leave the Tire Mobility Kit unattended while it is being used.
- Do not leave the compressor running for more than 10 minutes at a time or it may overheat.
- Do not use the Tire Mobility Kit if the ambient temperature is below -30 °C (-22 °F).
- In case of skin contact with the sealant, wash the area thoroughly with plenty of water. If the irritation persists, seek medical attention.
- In case of eye contact with the sealant, flush your eyes for at least 15 minutes. If the irritation persists, seek medical attention.
- In case of swallowing the sealant, rinse the mouth and drink plenty of water. However, never give anything to an unconscious person and seek medical attention immediately.
- · Long time exposure to the sealant may cause damage to bodily tissue such as kidney, etc.

### **Components of the Tire Mobility Kit**



- 1. Speed-restriction label
- 2. Sealant bottle and label with speed restriction
- 3. Filling hose
- 4. Connectors and cable for the power outlet direct connection
- 5. Holder for the sealant bottle
- 6. Compressor
- 7. ON/OFF switch
- 8. Pressure gauge for displaying the tire inflation pressure
- 9. Deflation valve to reduce the tire inflation pressure

Connectors, cable and connection hose are stored in the compressor housing. Strictly follow the specified sequence, otherwise the sealant may escape under high pressure.



### WARNING .

### Expired sealant

Do not use the Tire sealant after the sealant has expired (for example, pasted the expiration date on the sealant container). This can increase the risk of tire failure.



#### Sealant

- · Keep out of reach of children.
- · Avoid contact with eyes.
- · Do not swallow.

### Using the Tire Mobility Kit When a tire is flat



### **CAUTION**



Detach the speed restriction label (1) from the sealant bottle (2), and place it in a highly visible place inside the vehicle such as on the steering wheel to remind the driver not to drive too fast.



### **CAUTION**

If only the tire pressure needs to be adjusted, refer to the "How to adjust tire pressure" section in this chapter.

Before using the Tire Mobility Kit, be fully aware of the explanation on the sealant.

1 Shake the sealant bottle (2).



2 Remove the sealant bottle (2) cap and open the sealant bottle holder (5) cap and screw the bottle onto the sealant bottle holder.



- 3 Make sure the compressor valve on the filling hose is locked.
- 4 Unscrew the valve cap and screw the filling hose (3) onto the tire valve.



### **CAUTION**

Securely install the sealant filling hose to the valve. If not, sealant may flow backward, possibly clogging the filling hose.

5 Make sure the compressor is turned off and plug the compressor power cord (4) into the vehicle power outlet.



6 With the vehicle ON (READY indicator ON), switch on the compressor and let it run for about 5-7 minutes to fill the sealant up to proper pressure. (refer to the "Tires

and wheels" section in chapter 2). The inflation pressure of the tire after filling is unimportant and will be checked/corrected later.

Be careful not to overinflate the tire and stay away from the tire when filling it.



### **CAUTION**

Tire pressure

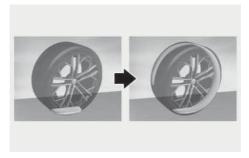
Do not attempt to drive your vehicle if the tire pressure is below 200 kPa (29 psi). This could result in an accident due to sudden tire failure.

- 7 Switch off the compressor.
- 8 Detach the hoses from the sealant bottle connector and from the tire valve. Return the Tire Mobility Kit to its storage location in the vehicle.
- 9 Immediately drive about 7-10 km (4-6 mi. or, about 10 minutes) to evenly distribute the sealant in the tire.

Do not exceed a speed of 80 km/h (50 mph). If possible, do not fall below a speed of 20 km/h (12 mph).

While driving, if you experience any unusual vibration, ride disturbance or noise, reduce your speed and drive with caution until you can safely pull off of the side of the road.

Call for road side service or towing.



- 10 After driving about 7-10 km (4-6 mi. or about 10 minutes), stop at a safety location.
- 11 Connect the filling hose (3) of the compressor directly to the tire valve.



12 Plug the compressor power cord into the vehicle power outlet.

### 674 Emergency situations

13 Adjust the tire inflation pressure to the recommended tire inflation.

With the vehicle is ON (READY indicator ON) proceed as follows.

- To increase the inflation pressure: Switch on the compressor. To check the current inflation pressure setting, briefly switch off the compressor.
- To reduce the inflation pressure rotate the deflation valve (9) on the filling hose (3).

#### NOTICE

Do not let the compressor run for more than 10 minutes, otherwise the device will overheat and may be damaged.

#### Information

The pressure gauge may show higher than actual reading when the compressor is running. To get an accurate tire reading, the compressor needs to be turned off.



### CAUTION .

If the inflation pressure is not maintained, drive the vehicle a second time, refer to the step 9.

Then repeat steps 10 to 13.

Use of the TMK may be ineffectual for tire damage larger than about 4 mm (0.16 in.).

We recommend that you contact an authorized HYUNDAI dealer if the tire cannot be made roadworthy with the Tire Mobility Kit.



#### MARNING ...

The tire inflation pressure must be at least 220 kPa (32 psi). If it is not, do not continue drivina.

Call for road side service or towing.



### **CAUTION**

Tire pressure sensor (if equipped with TPMS)

The sealant on the tire pressure sensor and wheel should be removed when you replace the tire with a new one and inspect the tire pressure sensors. We recommend that you get this done at an authorized HYUNDAI dealer.

#### Information

When reinstalling the repaired or replaced tire and wheel on the vehicle, tighten the wheel nut to 18-20 kgf·m (130-145 lbf·ft, 176-196 N·m).

### How to adjust tire pressure

1 Park your vehicle in a safe location.

2 Connect the filling hose (3) of the compressor directly to the tire valve.



- 3 Plug the compressor power cord into the vehicle power outlet.
- 4 Adjust the tire inflation pressure to the recommended tire inflation.

With the vehicle is ON (READY indicator ON), proceed as follows.

- To increase the inflation pressure: Switch on the compressor. To check the current inflation pressure setting, briefly switch off the compressor.
- To reduce the inflation pressure rotate the deflation valve (9) on the filling hose (3).

#### NOTICE

Do not let the compressor run for more than 10 minutes, otherwise the device will overheat and may be damaged.

#### Information

- The pressure gauge may show higher than actual reading when the compressor is running. To get an accurate tire reading, the compressor needs to be turned off.
- · When reinstalling the repaired or replaced tire and wheel on the vehicle, tighten the wheel nut to 18-20 kaf·m (130-145 lbf·ft, 176-196 N·m).



### CAUTION

Do not use the sealant when the tire pressure only needs to be adjusted.



### MARNING

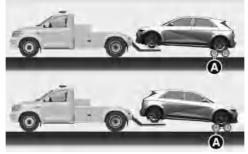
The tire inflation pressure must be at least 220 kPa (32 psi). If it is not, do not continue drivina.

Call for road side service or towing.

### **Towing**

### **Towing service**





#### [A] Dollies

If emergency towing is necessary, we recommend having it done by an authorized HYUNDAI dealer or a commercial tow-truck service.

Proper lifting and towing procedures are necessary to prevent damage to the vehicle. The use of wheel dollies or flatbed is recommended.

For AWD vehicles, it must be towed with a wheel lift and dollies or flatbed equipment with all the wheels off the ground.

### Precautions when moving a short distance before towing a vehicle

Move short distances within 10 m (33 ft.) at a speed of 5 km/h (3 mph) or less only when loading on a tow truck or if the vehicle needs to be repositioned.

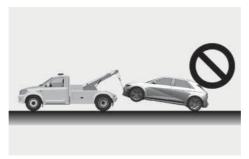
At this time, the gear must be in the N (Neutral) position and the parking brake must be released. If it is impossible to operate the reduction gear and parking brake, move the vehicle with the rear wheel lifted.

### NOTICE

Do not lift the vehicle by the tow fitting or body and chassis parts. Otherwise the vehicle may be damaged.

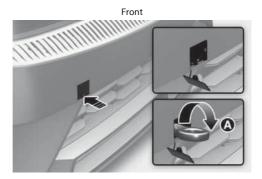


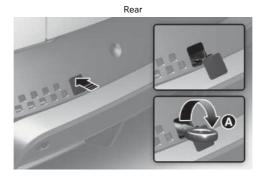
• Do not tow vehicles with sling-type equipment. Only use wheel lift or flatbed equipment.



• Do not lift using the trailer hitch or body and chassis part.

### Removable towing hook





#### [A] Install

- 1 Open the tailgate, and remove the towing hook from the tool case.
- 2 Remove the hole cover on the bumper.

### 678 Emergency situations

- Front: Push the lower part of the bumper hole cover.
- Rear: Push the upper part of the bumper hole cover.
- 3 Install the towing hook by turning it clockwise [A] into the hole until it is fully secured.
- 4 Remove the towing hook and install the cover after use.

### NOTICE

Failure to properly tighten the towing hook may result in vehicle damage and deformation of related parts.



### **CAUTION**

Make sure the towing hook is tighten properly. If not, during towing the towing hook may be thrown off the vehicle resulting in serious injury or accident.

### **Emergency commodity**

### tif equipped

Your vehicle is equipped with emergency commodities to help you respond to emergency situation.

### Fire extinguisher

#### NOTICE

This vehicle is equipped with the powder-type fire extinguisher exclusively for the fire caused by the electricity in the vehicle. Using water or other inappropriate fire extinguisher may cause the electric shock and collateral damage. If the fire cannot be controlled by the fire extinguisher equipped in the vehicle, avoid approaching to the fire and call fire station. Make sure to announce that the fire is caused by the electric vehicle.

If there is small fire and you know how to use the fire extinguisher, follow these steps carefully.

- 1 Pull out the safety pin at the top of the extinguisher that keeps the handle from being accidentally pressed.
- 2 Aim the nozzle towards the base of the fire.
- 3 Stand about 2.5 m (8 ft) away from the fire and squeeze the handle to discharge the extinguisher. If you release the handle, the discharge will stop.
- 4 Sweep the nozzle back and forth at the base of the fire. After the fire appears to be out, watch carefully since it may re-ignite.

#### First aid kit

Supplies for use in giving first aid such as scissors, bandage and adhesive tape, etc., are provided.

### **Triangle reflector**

Place the triangle reflector on the road to warn oncoming vehicles during emergencies, such as when the vehicle is parked by the roadside due to problems.

### Tire pressure gauge

### tif equipped

Tires normally lose some air in day-to-day use, and you may have to add a air periodically and usually it is not a sign of a leaking tire, but of normal wear. Always check tire pressure when the tires are cold because tire pressure increases with temperature.

To check the tire pressure, take the following steps:

- 1 Unscrew the inflation valve cap that is located on the rim of the tire.
- 2 Press and hold the gauge against the tire valve. Some air will leak as you begin and more will leak if you don't press the gauge in firmly.
- 3 A firm non-leaking push will activate the gauge.
- 4 Read the tire pressure on the gauge to see whether the tire pressure is low or high.
- 5 Adjust the tire pressure to the specified pressure. Refer to the "Tires and wheels" section in chapter 2.

6 Reinstall the inflation valve cap.



### WARNING

- · When an accident occur, park the vehicle to a safe place. To avoid the leak of electricity in high voltage battery, turn the vehicle off and pull the yellow label in the high voltage battery switch to shut down the high voltage battery. Also, disconnect the auxiliary battery(12 V) cable to shut down. Be sure to disconnect both (+)cable and (-) cable.
- Do not touch the exposed electric wires. Do not touch high voltage wires (orange). connectors and other electric components.
- · When an accident occur, the lethal gas and fluid from damaged high voltage battery can be leaked. Be aware not to touch or exposed to the gas and fluid. When flammable or poison gas leak inside the vehicle, open windows and evacuate to a safe place. When leaked fluid comes in contact with your eyes, flush your eyes with clean water. When the fluid contacts with your skin, wash it with salt water. Get immediate medical attention afterward.
- · When the vehicle is flooded, immediately turn the vehicle off and evacuate to a safe place. For your safety we recommend to call the fire station and or contact an authorized HYUNDAI dealer.
- · When the fire spread to the high voltage battery, the additional fire may occur. In this situation, be sure to accompany a fire truck when the vehicle is being towed.

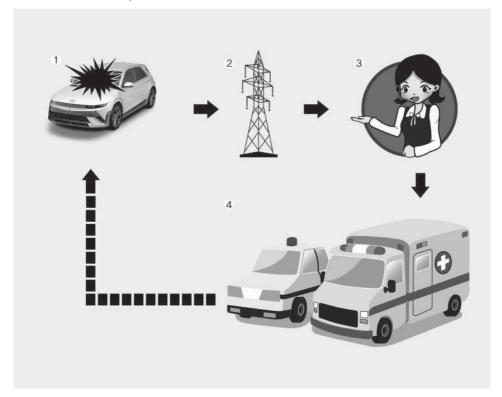
# Pan-European eCall System (for Europe)

### tif equipped

The vehicle is equipped with a device connected with the Pan-European eCall system for making emergency call to response teams. The Pan-European eCall system is an automatic emergency call service made in event of a traffic accident or other accidents on the roads of Europe. (only in countries with regulation on this system)

The system allows contacting with an officer of the single duty dispatch service in case of accidents on the roads of Europe. (only in countries with regulation on this system)

The Pan-European eCall system given conditions, stated in the Owner's Manual as well as Warranty and Service book transmits data to the Public Safety Answering Point (PSAP) including such information as vehicle location, vehicle type, VIN (vehicle identification number of the vehicle).



- Road accident
- 2 Wireless network
- 3 Public Safety Answering Point (PSAP)
- 4 Rescue

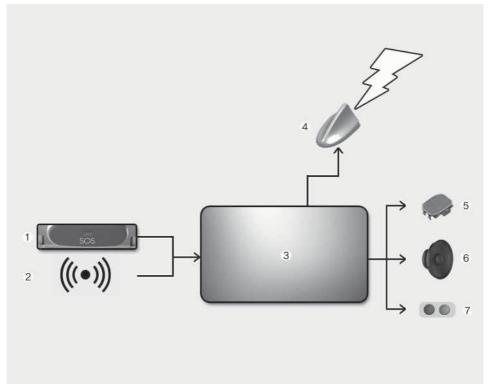
#### Information

Pan-European eCall device in the Owner's Manual means equipment, installed in the vehicle, which provides connection with the Pan-European eCall system.

"Other accidents" mean any accidents on the roads of Europe (only in countries with regulation on this system) resulted in injured people and/or necessity of provision of assistance. In case of registration of any accident, it is necessary to stop a vehicle, press button SOS (location of the button is specified on the picture in the chapter "Pan-European eCall (IF EQUIPPED)") of the Owner's Manual. When making a call, the system gathers information about the vehicle (from which a call was made), after which connects the car with an officer of the Public Safety Answering Point (PSAP) to tell about the reason of the emergency call.

Once the data which is stored in the Pan-European eCall system is delivered to the rescue center to assist the driver and passengers with proper rescue operations, the data will be deleted after rescue operation is completed.

### Description of the eCall in-vehicle system (for Europe)



- 1. SOS Button
- 2. Crash signal
- 3. Emergency Call System

- 4. Antenna
- 5. Mic
- 6. Speaker
- 7. LEDs

Overview of the 112-based eCall in-vehicle system, its operation and functionalities: refer to this section. The 112-based eCall service is a public service of general interest and is accessible free of charge.

The 112-based eCall in-vehicle system is activated by default. It is activated automatically by means of in vehicle sensors in the event of a severe accident.

It will also be triggered automatically when the vehicle is equipped with a TPS system which does not function in the event of a severe accident.

The 112-based eCall in-vehicle system can also be triggered manually, if needed. Instructions for manual activation of the system: refer to this section.

In the event of a critical system failure that would disable the 112-based eCall in-vehicle system, the following warning will be given to the occupants of the vehicle: refer to this section.

### Information on data processing (for Europe)

Any processing of personal data through the 112-based eCall in-vehicle system shall comply with the personal data protection rules provided for in Directives 95/46/EC (1) and 2002/58/EC (2) of the European Parliament and of the Council, and in particular, shall be based on the necessity to protect the vital interests of the individuals in accordance with Article 7(d) of Directive 95/46/EC (3).

Processing of such data is strictly limited to the purpose of handling the emergency eCall to the single European emergency number 112.

# Types of data and its recipients

The 112-based eCall in-vehicle system may collect and process only the following data:

- · Vehicle Identification Number
- Vehicle type (passenger vehicle or light commercial vehicle)
- Vehicle propulsion storage type (gasoline/diesel/CNG/LPG/electric/hydrogen)
- · Vehicle recent locations and direction of travel
- Log file of the automatic activation of the system and its timestamp
- Any additional data (if applicable): Not applicable

Recipients of data processed by the 112-based eCall in-vehicle system are the relevant public safety answering points designated by the respective public authorities of the country on which territory they are located, to first receive and handle eCalls to the single European emergency number 112. Additional information (if available): Not applicable

- 1 Directive 95/46/EC of the European Parliament and of the Council of 24 October 1995 on the protection of individuals with regard to the processing of personal data and on the free movement of such data (OJ L 281, 23.11.1995, p. 31).
- 2 Directive 2002/58/EC of the European Parliament and of the Council of 12 July 2002 concerning the processing of personal data and the protection of privacy

- in the electronic communications sector (Directive on privacy and electronic communications) (OJ L 201, 31.7.2002, p. 37).
- 3 Directive 95/46/EC is repealed by Regulation (EU) 2016/679 of the European Parliament and of the Council of 27 April 2016 on the protection of natural persons with regard to the processing of personal data and on the free movement of such data (General Data Protection Regulation) (OJ L 119, 4.5.2016, p. 1). The Regulation applies from 25 May 2018.

### Arrangements for data processing

The 112-based eCall in-vehicle system is designed in such a way as to ensure that the data contained in the system memory is not available outside the system before an eCall is triggered. Additional remarks (if any): Not applicable

The 112-based eCall in-vehicle system is designed in such a way as to ensure that it is not traceable and not subject to any constant tracking in its normal operation status. Additional remarks (if any): Not applicable

The 112-based eCall in-vehicle system is designed in such a way as to ensure that data in the system internal memory is automatically and continuously removed.

The vehicle location data is constantly overwritten in the internal memory of the system so as always to keep maximum of the last three up-to-date locations of the vehicle necessary for the normal functioning of the system.

The log of activity data in the 112-based eCall in-vehicle system is kept for no longer than necessary for attaining the purpose of handling the emergency eCall and in any case not beyond 13 hours from the moment an emergency eCall was initiated. Additional remarks (if any): Not applicable

### Modalities for exercising data subject's rights

The data subject (the vehicle's owner) has a right of access to data and as appropriate to request the rectification, erasure or blocking of data, concerning him or her, the processing of which does not comply with the provisions of Directive 95/46/EC. Any third parties to whom the data have been disclosed have to be notified of such rectification, erasure or blocking carried out in compliance with this Directive, unless it proves impossible or involves a disproportionate effort.

The data subject has a right to complain to the competent data protection authority if he or she considers that his or her rights have been infringed as a result of the processing of his or her personal data.

Contact service responsible for handling access requests (if any): Not applicable

#### Pan-European eCall System (for Europe)



Elements of the Pan-European eCall system, installed in passenger compartment:

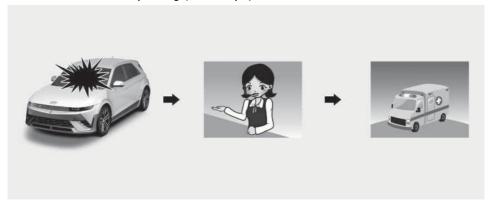
- 1. SOS button
- 2. LED

SOS button: the driver/passenger makes an emergency call to the single duty dispatch service by pressing the button.

LED: The LED illuminates for 3 seconds when the Start/Stop button is in the ON position. After that they will switch off at normal operation of the system.

If there are some problems in the system, the SOS indicator light illuminates in the instrument cluster.

### Automatic accident reporting (for Europe)



The Pan-European eCall device automatically makes an emergency call to the Public Safety Answering Point (PSAP) for proper rescuing operations in event of vehicle accident.

For proper emergency services and support the Pan-European eCall system automatically transmits the accident data to the Public Safety Answering Point (PSAP) when a traffic accident is detected.

In this case, the emergency call cannot be hung up by pressing the SOS button and the Pan-European eCall system remains connected until the emergency service officer, receiving the call, disconnects the emergency call.

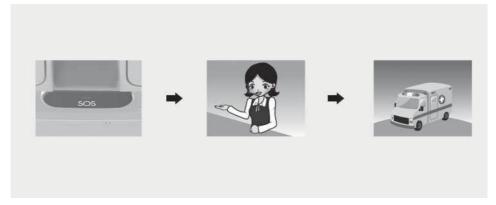
In minor traffic accidents the Pan-European eCall system may not execute an emergency call. However, an emergency call may be made manually by pressing the SOS button.



# CAUTION

Operation of the system is impossible in case of absence of mobile transmission and GPS and Galileo signals.

### Manual accident reporting (for Europe)



The driver or passenger manually can make an emergency call in the Public Safety Answering Point (PSAP), by pressing SOS button to call the necessary emergency services.

A call to the emergency services through the Pan-European eCall system can be cancelled by pressing the SOS button again only before the call connection.

After activation of emergency call in the manual mode (for proper emergency services and support), the Pan-European eCall system automatically transmits the road accident data / or data on other accident to the officer of the Public Safety Answering Point (PSAP) (during emergency call) by pressing the SOS button.

If the driver or passenger accidentally presses the SOS button, it can be canceled by pressing the button again. (for Russia)

It can be canceled by pressing the button again in 3 seconds. It can't be canceled after that. (Except Russia)

In case of road accident or other accident for activation of emergency call in manual mode it is necessary:

- 1 Stop the vehicle in accordance with traffic rules to ensure safety to yourself and other participants of road traffic:
- 2 Press the SOS button, when pressing the button SOS registration of the device in the wireless telephonic communication networks is carried out, minimum data set about vehicle and its location is collected in accordance with of the technical requirements of the device. After that connection with the officer of the Pan-European eCall system is made for clearing up reasons (conditions) of the emergency call.
- 3 After clearing up reasons of the emergency call, the officer of the Public Safety Answering Point (PSAP) sends emergency services and completes the emergency call.

If the emergency call is not carried out in accordance with the procedure, mentioned above, the emergency call will be considered as erroneous.



### WARNING

Emergency power supply of the Pan-European eCall system from the battery

- The Pan-European eCall system battery supplies power during 1 hour in case main power source of the vehicle is cut off due to the collision during the emergency situations.
- The Pan-European eCall system battery should be replaced every 4 years. For more information refer to the "Scheduled maintenance services" section in chapter 9.

LED illumination in red (system malfunction)

If red LED illuminates in normal driving conditions, this can indicate malfunction of the Pan-European eCall system. We recommend to have the Pan-European eCall system checked at an authorized HYUNDAI dealer.

Otherwise correct operation of the Pan-European eCall system device, installed in your vehicle is not quaranteed. Owner of the vehicle incurs liability for consequences, occurred as a result of nonobservance of conditions, mentioned above.

#### Arbitrary Removal or Modification

The Pan-European eCall system calls emergency services for assistance. Thus, any arbitrary removal or changes to the Pan-European eCall system settings may affect your driving safety. Also, it may even make an erroneous emergency call to the Public Safety Answering Point (PSAP), Thereby, we kindly ask you not to make any changes by yourself or by the third parties in the settings of the equipment of the Pan-European eCall system, installed in your vehicle.

#### Information

The mobile network operators will phase out the 2G and 3G in many countries around the world. The decision to phase out 2G and/or 3G network technology was solely at the discretion of mobile network operators and therefore beyond the control of HYUNDAL. Due to decision of the network operators to discontinue their 2G and/or 3G. the automatic/manual eCall will no longer be available in the event of an accident or a situation requiring an emergency service.

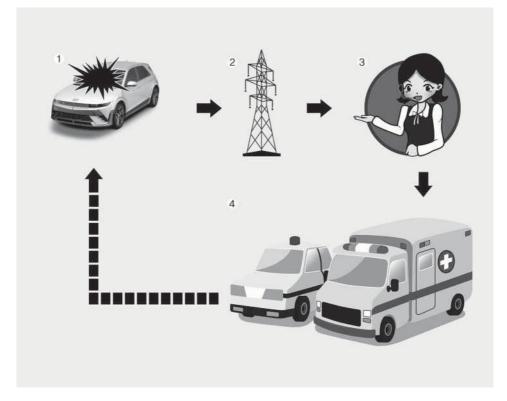
### **UAE eCall System (For UAE)**

### tif equipped

The vehicle is equipped with a device\* connected with the UAE eCall system for making emergency call to response teams. The UAE eCall system is an automatic emergency call service made in event of a traffic accident or other\*\* accidents on the roads. (only in countries with regulation on this system)

The system allows contacting with an officer of the single duty dispatch service in case of accidents on the roads. (only in countries with regulation on this system)

The UAE eCall system given conditions, stated in the Owner's Manual as well as Warranty and Service book transmits data to the Public Safety Answering Point (PSAP) including such information as vehicle location, vehicle type, VIN (vehicle identification number of the vehicle).



- Road accident
- 2 Wireless network
- 3 Public Safety Answering Point (PSAP)
- 4 Rescue

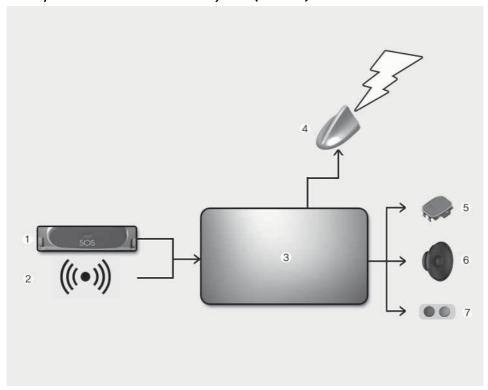
#### Information

UAE eCall device in the Owner's Manual means equipment, installed in the vehicle, which provides connection with the UAE eCall system.

"Other accidents" mean any accidents on the roads UAE (only in countries with regulation on this system) resulted in injured people and/or necessity of provision of assistance. In case of registration of any accident, it is necessary to stop a vehicle, press button SOS (location of the button is specified on the picture in the chapter "UAE eCall (IF EQUIPPED)") of the Owner's Manual. When making a call, the system gathers information about the vehicle (from which a call was made), after which connects the car with an officer of the Public Safety Answering Point (PSAP) to tell about the reason of the emergency call.

Once the data which is stored in the UAE eCall system is delivered to the rescue center to assist the driver and passengers with proper rescue operations, the data will be deleted after rescue operation is completed.

### Description of the eCall in-vehicle system (For UAE)



- 1. SOS Button
- 2. Crash signal
- 3. Emergency Call System

#### 690 Emergency situations

- 4. Antenna
- 5. Mic
- 6. Speaker
- 7. LEDs

Overview of the 999-based eCall in-vehicle system, its operation and functionalities: refer to this section. The 999-based eCall service is a public service of general interest and is accessible free of charge.

The 999-based eCall in-vehicle system is activated by default. It is activated automatically by means of in-vehicle sensors in the event of a severe accident.

It will also be triggered automatically when the vehicle is equipped with a TPS system which does not function in the event of a severe accident.

The 999-based eCall in-vehicle system can also be triggered manually, if needed. Instructions for manual activation of the system: refer to this section.

In the event of a critical system failure that would disable the 999-based eCall in-vehicle system, the following warning will be given to the occupants of the vehicle: refer to this section.

### Information on data processing (For UAE)

Any processing of personal data through the 999-based eCall in-vehicle system shall comply with the personal data protection rules provided for in Directives 95/46/EC (1) and 2002/58/EC (2) of the European Parliament and of the Council, and in particular, shall be based on the necessity to protect the vital interests of the individuals in accordance with Article 7(d) of Directive 95/46/EC (3).

Processing of such data is strictly limited to the purpose of handling the emergency eCall to the single UAE emergency number 999.

# Types of data and its recipients

The 999-based eCall in-vehicle system may collect and process only the following data:

- · Vehicle Identification Number
- Vehicle type (passenger vehicle or light commercial vehicle)
- Vehicle propulsion storage type (gasoline/diesel/CNG/LPG/electric/hydrogen)
- Vehicle recent locations and direction of travel
- Log file of the automatic activation of the system and its timestamp
- Any additional data (if applicable): Not applicable

Recipients of data processed by the 999-based eCall in-vehicle system are the relevant public safety answering points designated by the respective public authorities of the country on which territory they are located, to first receive and handle eCalls to the single UAE emergency number 999. Additional information (if available): Not applicable

- 1 Directive 95/46/EC of the European Parliament and of the Council of 24 October 1995 on the protection of individuals with regard to the processing of personal data and on the free movement of such data (OJ L 281, 23.11.1995, p. 31).
- 2 Directive 2002/58/EC of the European Parliament and of the Council of 12 July 2002 concerning the processing of personal data and the protection of privacy

- in the electronic communications sector (Directive on privacy and electronic communications) (OJ L 201, 31.7.2002, p. 37).
- 3 Directive 95/46/EC is repealed by Regulation (EU) 2016/679 of the European Parliament and of the Council of 27 April 2016 on the protection of natural persons with regard to the processing of personal data and on the free movement of such data (General Data Protection Regulation) (OJ L 119, 4.5.2016, p. 1). The Regulation applies from 25 May 2018.

### Arrangements for data processing

The 999-based eCall in-vehicle system is designed in such a way as to ensure that the data contained in the system memory is not available outside the system before an eCall is triggered. Additional remarks (if any): Not applicable

The 999-based eCall in-vehicle system is designed in such a way as to ensure that it is not traceable and not subject to any constant tracking in its normal operation status. Additional remarks (if any): Not applicable

The 999-based eCall in-vehicle system is designed in such a way as to ensure that data in the system internal memory is automatically and continuously removed.

The vehicle location data is constantly overwritten in the internal memory of the system so as always to keep maximum of the last three up-to-date locations of the vehicle necessary for the normal functioning of the system.

The log of activity data in the 999-based eCall in-vehicle system is kept for no longer than necessary for attaining the purpose of handling the emergency eCall and in any case not beyond 13 hours from the moment an emergency eCall was initiated. Additional remarks (if any): Not applicable

### Modalities for exercising data subject's rights

The data subject (the vehicle's owner) has a right of access to data and as appropriate to request the rectification, erasure or blocking of data, concerning him or her, the processing of which does not comply with the provisions of Directive 95/46/EC. Any third parties to whom the data have been disclosed have to be notified of such rectification, erasure or blocking carried out in compliance with this Directive, unless it proves impossible or involves a disproportionate effort.

The data subject has a right to complain to the competent data protection authority if he or she considers that his or her rights have been infringed as a result of the processing of his or her personal data.

Contact service responsible for handling access requests (if any): Not applicable

#### **UAE eCall System (For UAE)**



Elements of the UAE eCall System, installed in passenger compartment:

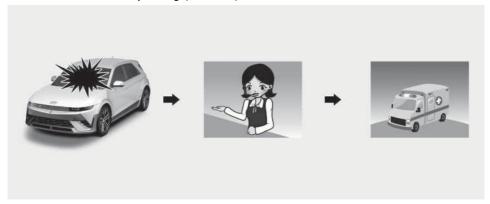
- 1. SOS button
- 2. LED

SOS button: the driver/passenger makes an emergency call to the single duty dispatch service by pressing the button.

LED: The LED illuminates for 3 seconds when the Start/Stop button is in the ON position. After that they will switch off at normal operation of the system.

If there are some problems in the system, the SOS indicator light illuminates in the instrument cluster.

### Automatic accident reporting (For UAE)



The UAE eCall device automatically makes an emergency call to the Public Safety Answering Point (PSAP) for proper rescuing operations in event of vehicle accident.

For proper emergency services and support the UAE eCall system automatically transmits the accident data to the Public Safety Answering Point (PSAP) when a traffic accident is detected.

In this case, the emergency call cannot be hung up by pressing the SOS button and the UAE eCall system remains connected until the emergency service officer, receiving the call, disconnects the emergency call.

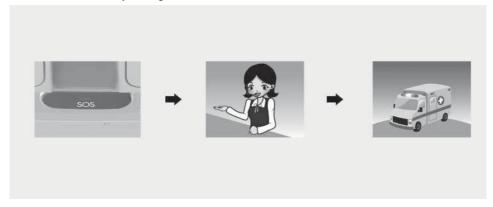
In minor traffic accidents the UAE eCall system may not execute an emergency call. However, an emergency call may be made manually by pressing the SOS button.



# CAUTION

Operation of the system is impossible in case of absence of mobile transmission and GPS and Galileo signals.

### Manual accident reporting



The driver or passenger manually can make an emergency call in the Public Safety Answering Point (PSAP), by pressing SOS button to call the necessary emergency services.

A call to the emergency services through the UAE eCall system can be cancelled by pressing the SOS button again only before the call connection.

After activation of emergency call in the manual mode (for proper emergency services and support), the UAE eCall system automatically transmits the road accident data / or data on other accident to the officer of the Public Safety Answering Point (PSAP) (during emergency call) by pressing the SOS button.

If the driver or passenger accidentally presses the SOS button, it can be canceled by pressing the button again. (For Russia)

It can be canceled by pressing the button again in 3 seconds. It can't be canceled after that. (Except Russia)

In case of road accident or other accident for activation of emergency call in manual mode it is necessary:

- 1 Stop the vehicle in accordance with traffic rules to ensure safety to yourself and other participants of road traffic:
- 2 Press the SOS button, when pressing the button SOS registration of the device in the wireless telephonic communication networks is carried out, minimum data set about vehicle and its location is collected in accordance with of the technical requirements of the device. After that connection with the officer of the UAE eCall system is made for clearing up reasons (conditions) of the emergency call.
- 3 After clearing up reasons of the emergency call, the officer of the Public Safety Answering Point (PSAP) sends emergency services and completes the emergency call.

If the emergency call is not carried out in accordance with the procedure, mentioned above, the emergency call will be considered as erroneous.



#### WARNING

Emergency power supply of the UAE eCall system from the battery

- The UAE eCall system battery supplies power during 1 hour in case main power source of the vehicle is cut off due to the collision during the emergency situations.
- The UAE eCall system battery should be replaced every 4 years. For more information refer to the "Scheduled maintenance services" section in chapter 9.

LED illumination in red (system malfunction)

If red LED illuminates in normal driving conditions, this can indicate malfunction of the UAE eCall system. We recommend to have the UAE eCall system checked at an authorized HYUNDAI dealer.

Otherwise correct operation of the UAE eCall system device, installed in your vehicle is not guaranteed. Owner of the vehicle incurs liability for consequences, occurred as a result of nonobservance of conditions, mentioned above.

#### Arbitrary Removal or Modification

The UAE eCall system calls emergency services for assistance. Thus, any arbitrary removal or changes to the UAE eCall system settings may affect your driving safety. Also, it may even make an erroneous emergency call to the Public Safety Answering Point (PSAP). Thereby, we kindly ask you not to make any changes by yourself or by the third parties in the settings of the equipment of the UAE eCall system, installed in your vehicle.

#### eCall certification label





# 9. Maintenance

# **Motor compartment**



The actual motor compartment in the vehicle may differ from the illustration.

- 1. Coolant reservoir
- 2. Windshield washer fluid reservoir
- 3. Brake fluid reservoir
- 4. Fuse box
- 5. Battery (12 V)
- 6. Cabin air filter

### **Maintenance services**

You should exercise the utmost care to prevent damage to your vehicle and injury to yourself whenever performing any maintenance or inspection procedures.

We recommend you have your vehicle maintained and repaired by an authorized HYUNDAI dealer. An authorized HYUNDAI dealer meets HYUNDAI's high service quality standards and receives technical support from HYUNDAI in order to provide you with a high level of service satisfaction.

### **Owner's responsibility**

Maintenance service and record retention are the owner's responsibility.

You should retain documents that show proper maintenance has been performed on your vehicle in accordance with the scheduled maintenance service charts shown on the following pages. You need this information to establish your compliance with the servicing and maintenance requirements of your vehicle warranties.

Detailed warranty information is provided in your Service Passport.

Repairs and adjustments required as a result of improper maintenance or a lack of required maintenance are not covered.

#### **Owner maintenance precautions**

Inadequate, incomplete or insufficient servicing may result in operational problems with your vehicle that could lead to vehicle damage, an accident, or personal injury. This chapter provides instructions only for the maintenance items that are easy to perform.

Your vehicle should not be modified in any way. Such modifications may adversely affect the performance, safety or durability of your vehicle and may, in addition, violate conditions of the limited warranties covering the vehicle.

#### NOTICE

Improper owner maintenance during the warranty period may affect warranty coverage. For more information, read the separate Service Passport provided with the vehicle. If you are unsure about any service or maintenance procedure, we recommend to have it done by an authorized HYUNDAI dealer.

#### Owner maintenance



### WARNING

Performing maintenance work on a vehicle can be dangerous. If you lack sufficient knowledge and experience or the proper tools and equipment to do the work, we recommend that it is done by an authorized HYUNDAI dealer. ALWAYS follow these precautions for performing maintenance work:

- Park your vehicle on level ground. Shift the vehicle to P (Park), apply the parking brake, and press the Start/Stop button to the OFF position.
- Block the tires (front and back) to prevent the vehicle from moving. Remove loose clothing or jewelry that can become entangled in moving parts.
- Keep flames, sparks, or smoking materials away from the battery parts.



#### ▲ WARNING

Make sure to turn the Start/Stop button to the OFF position to shut down the vehicle before performing maintenance work on the vehicle.

The following lists are vehicle checks and inspections that should be performed by the owner or an authorized HYUNDAI dealer at the frequencies indicated to help ensure safe. dependable operation of your vehicle.

Any adverse conditions should be brought to the attention of your dealer as soon as possible.

These Owner Maintenance vehicle checks are generally not covered by warranties and you may be charged for labor, parts and lubricants used.

The electric control system in the vehicle may cause malfunction or other negative impact on the artificial heart and the artificial internal organs. Be sure to inquire the impact of the electric control system on the artificial organs from the medical product corporation.

#### Owner maintenance schedule

# When you stop for charging:

- Check the coolant level in the coolant reservoir.
- Check the windshield washer fluid level.
- · Check for low or under-inflated tires.



### MARNING

Be careful when checking your coolant level if the motor compartment is hot. This may result in coolant being blown out of the opening and cause serious burns and other injuries.

# While operating your vehicle:

 Check for vibrations in the steering wheel. Notice if there is any increased steering effort or looseness in the steering wheel, or change in its straight-ahead position.

- Notice if your vehicle constantly turns slightly or "pulls" to one side when traveling on smooth, level road.
- When stopping, listen and check for unusual sounds, pulling to one side, increased brake pedal travel or "hard-to-push" brake pedal.
- If any slipping or changes in the operation of your gear shift occurs, check the shift gear fluid level.
- · Check the shift gear P (Park) function.
- · Check the parking brake.
- Check for fluid leaks under your vehicle (water dripping from the air conditioning system during or after use is normal).

### At least monthly:

- · Check coolant level in the coolant reservoir.
- Check the operation of all exterior lights, including the stoplights, turn signals and hazard warning flashers.
- Check the inflation pressures of all tires including the spare for tires that are worn, show uneven wear, or are damaged.
- · Check for loose wheel nuts.

### At least twice a year: (for example, every Spring and Autumn)

- · Check radiator, heater and air conditioning hoses for leaks or damage.
- Check windshield washer spray and wiper operation. Clean wiper blades with a clean cloth dampened with washer fluid.
- · Check headlight alignment.
- · Check the seat belts for wear and function.

### At least once a year:

- · Clean body and door drain holes.
- · Lubricate door hinges and hood hinges.
- Lubricate door and hood locks and latches.
- · Lubricate door rubber weather strips.
- · Check the air conditioning system.
- Inspect and lubricate shift gear linkage and controls.
- Clean the battery (12 V) and terminals.
- · Check the brake fluid level.

### Scheduled maintenance services

Follow Normal Maintenance Schedule if the vehicle is usually operated where none of the following conditions apply. If any of the following conditions apply, you must follow the Maintenance Under Severe Usage Conditions.

- Repeated driving short distance of less than 8 km (5 mi.) in normal temperature or less than 16 km (10mi.) in freezing temperature
- Driving on rough, dusty, muddy, unpaved, graveled or salt-spread roads
- Driving in areas using salt or other corrosive materials or in very cold weather
- Driving in heavy dust conditions
- · Driving in heavy traffic area
- Driving in heavy traffic area with the ambient temperature higher than 32 °C (90 °F) while consuming more than 50 % of electric energy.
- · Towing a trailer or using a camper, or driving with loads on the roof
- Driving as a patrol car, taxi, other commercial use of vehicle towing
- Frequently driving under high speed or rapid acceleration/deceleration
- Frequently driving in stop-and-go condition

If your vehicle is operated under the above conditions, you should inspect, replace or refill more frequently than the following Normal Maintenance Schedule. After the periods or distance shown in the chart, continue to follow the prescribed maintenance intervals.

#### Normal maintenance schedule

The following maintenance services must be performed to ensure good vehicle performance.

Keep receipts for all vehicle services to protect your warranty. Where both mileage and time are shown, the frequency of service is determined by whichever occurs first.

I: Inspect and if necessary, adjust, correct, clean or replace.

R: Replace or change.

MAINTENANCE	Number of months or driving distance, whichever comes first								
INTERVALS	Months	24	48	72	96	120	144	168	192
	Mi.×1,000	20	40	60	80	100	120	140	160
	Km×1,000	30	60	90	120	150	180	210	240
MAINTENANCE ITEM									
Cooling system		I	I	I	I	I	I	I	I
Coolant *1	Standard At first, replace at 200,000 km (125,000 mi.) or 10 years; after that, replace every 40,000 km (25,000 mi.) or 24 months.								
Reduction gear fluid			ı		ı		ı		ı

MAINTENANCE INTERVALS	Number of	Number of months or driving distance, whichever comes first							
INTERVALS	Months	24	48	72	96	120	144	168	192
	Mi.×1,000	20	40	60	80	100	120	140	160
	Km×1,000	30	60	90	120	150	180	210	240
MAINTENANCE ITEM									
12V auxiliary battery condition	For Europe	I	I	I	I	I	I	I	I
	ExceptEurope Inspect 15,000 km (10,000 mi.) or 12 months								
All electrical system		ı	ı	ı	ı	I	ı	ı	I
Brake lines, hoses and connections		I	ı	I	ı	I	ı	I	I
Brake pedal		I	ı	I	ı	I	ı	I	I
Parking brake		_	ı	_	ı	I	I	_	I
Brake fluid		R	R	R	R	R	R	R	R
Brake discs and pads		ı	ı	ı	ı	I	ı	ı	I

<sup>\*1:</sup> When replacing or adding coolant, we recommend that you visit an authorized HYUNDAI dealer.

### Normal maintenance schedule

I: Inspect and if necessary, adjust, correct, clean or replace.

R: Replace or change.

MAINTENANCE	Number o	Number of months or driving distance, whichever comes first								
INTERVALS	Months	24	48	72	96	120	144	168	192	
	Mi.×1,000	20	40	60	80	100	120	140	160	
	Km×1,000	30	60	90	120	150	180	210	240	
MAINTENANCE ITEM										
Steering gear rack, linkage and boots		I	ı	I	ı	I	I	I	I	
Driveshaft and boots		ı	ı	I	ı	I	I	I	ı	
Tire (pressure & tread wear)		ı	ı	I	ı	I	I	I	ı	
Front suspension ball joints		I	I	I	I	I	I	I	I	

MAINTENANCE	Number of	f montl	ns or d	riving c	listanc	e, whic	hever o	comes	68 192 40 160				
INTERVALS	Months	24	48	72	96	120	144	168	192				
	Mi.×1,000	20	40	60	80	100	120	140	160				
	Km×1,000	30	60	90	120	150	180	210	240				
MAINTENANCE ITEM													
Bolt and nuts on chassis and body		ı	I	I	I	I	I	I	l				
Air conditioner refrigerant		_	I	I	I	I	I	I	I				
Air conditioner compressor		ı	I	I	I	I	ı	I	ı				
Cabin air filter	For Europe	R	R	R	R	R	R	R	R				
Cabin air inter	ExceptEurope	Replace 15,000 km (10,000 mi.) or 12 months											
Electronic Limited Slip Differential (e- LSD) oil		No check, No service required											
Pan-European eCall system battery (if equipped)		Replace every 4 years											
UAE eCall system battery (if equipped)		Replace every 4 years											

### Maintenance under severe usage conditions

The following items must be serviced more frequently on cars mainly used under severe driving conditions.

Refer to the chart below for the appropriate maintenance intervals.

R: Replace

I: Inspect and if necessary, adjust, correct, clean or replace

Maintenance item	Maintenance operation	Maintenance intervals	Driving condition	
Reduction gear fluid	R	Every 120,000 km (80,000 mi.)	B, D, G, H	
Steering gear rack, linkage and boots	I	Inspect more frequently depending on the condition	C, D, E, F, G	
Front suspension ball joints	I	Inspect more frequently depending on the condition	B, C, D, E, F	
Disc brakes and pads, calipers and rotors	I	Inspect more frequently depending on the condition	B, C, D, E, F, G, H, I, J	

Maintenance item	Maintenance operation	Maintenance intervals	Driving condition
Driveshaft and boots	I	Inspect more frequently depending on the condition	B, C, D, E, F, G, H, I
Cabin air filter	R	Replace more frequently depending on the condition	B,D,F

### Severe driving conditions

- A. Repeatedly driving short distance of less than 8 km (5 mi.) in normal temperature or less than 16 km (10 mi.) in freezing temperature
- B. Driving on rough, dusty, muddy, unpaved, graveled or salt spread roads
- C. Driving in areas using salt or other corrosive materials or in very cold weather
- D. Driving in heavy dust condition
- E. Driving in heavy traffic area with the ambient temperature higher than 32  $^{\circ}$ C (90  $^{\circ}$ F) while consuming more than 50  $^{\circ}$ 6 of electric energy.
- F. Driving on uphill, downhill, or mountain roads repeatedly
- G. Towing a trailer, or using a camper or roof rack
- H. Driving as a patrol car, taxi, other commercial use or vehicle towing
- I. Frequently driving under high speed or rapid acceleration/deceleration
- J. Frequently driving in stop-and-go conditions

# **Explanation of scheduled maintenance items**

#### **Cooling system**

Check cooling system components, such as radiator, coolant reservoir, hoses and connections for leakage and damage. Replace any damaged parts.

#### Coolant

The coolant should be changed at the intervals specified in the maintenance schedule.

#### Reduction gear fluid

The reduction gear fluid should be inspected according to the intervals specified in the maintenance schedule.

#### Brake hoses and lines

Visually check for proper installation, chafing, cracks, deterioration and any leakage. Replace any deteriorated or damaged parts immediately.

#### **Brake fluid**

Check the brake fluid level in the brake fluid reservoir. The level should be between the MIN and the MAX marks on the side of the reservoir. Use only hydraulic brake fluid conforming to DOT 4 specification.

#### Brake discs, pads, calipers and rotors

Check the pads, the disc, and the rotor for any excessive wear-out. Inspect calipers for any fluid leakage.

For more information on checking the pads or lining wear limit, visit http://service.hyundai-motor.com

### **Suspension mounting bolts**

Check the suspension connections for looseness or damage. Retighten to the specified torque.

# Steering gear box, linkage & boots/lower arm ball joint

With the vehicle stopped and the vehicle off, check for excessive free-play in the steering wheel. Check the linkage for bends or damage. Check the dust boots and ball joints for deterioration, cracks, or damage.

Replace any damaged parts.

#### **Drive shafts and boots**

Check the drive shafts, boots and clamps for cracks, deterioration, or damage. Replace any damaged parts and, if necessary, repack the grease.

# Air conditioning refrigerant

Check the air conditioning lines and connections for leakage and damage.

#### Coolant



Check the condition and connections of all cooling system hoses and heater hoses. Replace any swollen or deteriorated hoses.

The coolant level should be filled between the MAX and MIN marks on the side of the coolant reservoir when the parts in the motor compartment is cool.

If the coolant level is low, add enough distilled (deionized) water mixed with antifreeze to bring the level to the MAX mark. If frequent additions are required, we recommend that your vehicle be inspected by an authorized HYUNDAI dealer.

Use only designated coolant water for electric vehicles, adding other types of water or antifreeze can damage the vehicle.



### WARNING



Keep hands, clothing, and tools away from the rotating fan blades of the cooling fan. The electric motor for the cooling fan may continue to operate or start up when the vehicle is off and can cause serious injury.

The electric motor for the cooling fan is controlled by vehicle coolant temperature, refrigerant pressure, and vehicle speed. As the vehicle coolant temperature decreases, the electric motor automatically shuts off. This is a normal condition.



- Check the coolant level when the motor compartment is cooled. Coolant level is influenced by temperature, and if the coolant reservoir cap is removed when coolant temperature is high, hot coolant and steam may blow out under pressure causing serious injury.
- · Make sure the coolant cap is properly closed after refilling coolant. Otherwise the motor could be overheated while driving.



### MARNING

Make sure the coolant cap is properly closed after refilling coolant. Otherwise, the motor could be overheated while driving.

1 Check if the coolant cap label is straight in front.



2 Make sure that the tiny protrusions inside the coolant cap is securely interlocked.



#### Recommended coolant

- When adding coolant, use only deionized water, distilled water or soft water for your vehicle and never mix hard water in the coolant filled at the factory.
- An incorrect coolant mixture can result in severe malfunction or motor damage.

- Do not use alcohol or methanol coolant or mix them with the specified coolant.
- Do not use a solution that contains more than 60 % antifreeze or less than 35 % antifreeze, which would reduce the effectiveness of the solution.

For mixing percentage, refer to the following table:

And it was to see a see to see	Mixture percentage (volume)						
Ambient temperature	Antifreeze	Water					
-15 °C (5 °F)	35	65					
-25 °C (-13 °F)	40	60					
-35 °C (-31 °F)	50	50					
-45 °C (-49 °F)	60	40					

#### Information

If in doubt about the mix ratio, a 50 % water and 50 % antifreeze mix is the easiest to mix together because it is the same quantity of each.

#### **Changing coolant**

We recommend that the coolant be changed by a authorized HYUNDAI dealer according to the maintenance schedule.



### ▲ WARNING

Do not use coolant or antifreeze in the washer fluid reservoir.

Coolant can severely obscure visibility when sprayed on the windshield and may cause loss of vehicle control resulting in an accident.

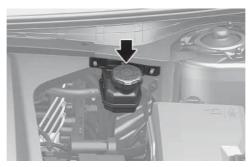
Coolant may also cause damage to paint and body trim.

#### NOTICE

To prevent damage to motor parts, put a thick towel around the coolant cap before refilling the coolant to prevent the coolant from overflowing into motor parts.

#### **Brake fluid**

### Checking the brake fluid level



Check the fluid level in the reservoir periodically. The fluid level should be between MAX and MIN marks on the side of the reservoir.

Before removing the reservoir cap and adding brake fluid, clean the area around the reservoir cap thoroughly to prevent brake fluid contamination.

If the level is low, add the specified brake fluid to the MAX level. The level will fall with accumulated kilometers. This is a normal condition associated with the wear of the brake linings. If the fluid level is excessively low or frequent additions are required, we recommend that the brake system be checked by an authorized HYUNDAI dealer.



#### ▲ WARNING

If the brake system requires frequent additions of fluid this could indicate a leak in the brake system. We recommend that the vehicle be inspected by an authorized HYUNDAI dealer



#### WARNING

Do not let brake fluid enter into your eyes. If brake fluid gets in your eyes, flush your eyes with clean water for at least 15 minutes and get immediate medical attention.

#### NOTICE

- Do not allow brake fluid to contact the vehicle's body paint, as it will result in paint damage.
- NEVER use brake fluid which has been exposed to open air for an extended time, as its quality cannot be guaranteed. It should be disposed of properly.
- Do not use the wrong type of brake fluid. A few drops of mineral based oil in your brake system can damage brake system parts.

#### Information

Use only the specified brake fluid (refer to the "Recommended Jubricants and capacities" section in chapter 2).

# **Reduction gear fluid**

The reduction gear fluid should be inspected according to the intervals specified in the maintenance schedule.

#### Washer fluid

### Checking the washer fluid level



Check the fluid level in the washer fluid reservoir and add fluid if necessary. Plain water may be used if washer fluid is not available. However, use washer solvent with antifreeze characteristics in cold climates to prevent freezing.



#### WARNING

To prevent serious injury or death, take the following safety precautions when using washer fluid:

- Do not use coolant or antifreeze in the washer fluid reservoir. Coolant can severely obscure visibility when sprayed on the windshield and may cause loss of vehicle control resulting in an accident or damage to paint and body trim.
- Do not allow sparks or flame to contact the washer fluid or the washer fluid reservoir. Washer fluid may contain alcohol and can be flammable.
- Do not drink washer fluid and avoid contact with skin. Washer fluid is harmful to humans and animals.
- · Keep washer fluid away from children and animals.

#### Cabin air filter

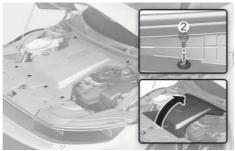
### **Filter inspection**

The cabin air filter should be replaced according to the Maintenance Schedule. If the vehicle is operated in severely air-polluted cities or on dusty rough roads for a long period, it should be inspected more frequently and replaced sooner. Replace the cabin air filter by following the procedure below and be careful to avoid damaging other components.

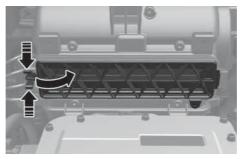
### Filter replacement

1 With the hood open, disassemble the external speaker connector (1) located on the right side. Remove the bolt (2) to remove the motor compartment cover.





2 Press and hold the lock on the left side of the cover.



3 Pull out the cover.

- 4 Replace the cabin air filter.
- 5 Reassemble in the reverse order of disassembly.

### NOTICE



- Install a new cabin air filter in the correct direction with the arrow symbol (↓) facing downwards, to prevent noise and reduce effectiveness.
- Always be sure that the front trunk cover is firmly closed after replacing the cabin air filter.

Otherwise is may cause interior damage in the motor compartment, noise trouble, or entrance of foreign substances.

### Wiper blades

#### **Blade inspection**

Contamination of the windshield or wiper blades with foreign substances may reduce the effectiveness of the windshield wipers.

Common sources of contamination are insects, tree sap, and hot wax treatments used by some commercial car washes. If the blades are not wiping properly, clean both the window and the blades with glass cleaner or mild detergent, and rinse thoroughly with clean water. Replace blades as needed.

#### NOTICE

To prevent damage to the wiper blades, arms, or other components, do not:

- Use gasoline, kerosene, paint thinner, or other solvents on or near them.
- · Attempt to move the wipers manually.

### **Blade replacement**

When the wipers no longer clean adequately, the blades may be worn or cracked. Replace the wipers with new ones.

#### NOTICE

To prevent damage:

- · Never use non-specified wiper blades.
- Lift the wiper arms when in the top wiping position.
- Always return the wiper arms to the windshield before driving.

### Front windshield wiper blade replacement

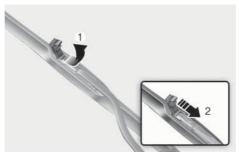
This vehicle has a "hidden" wiper design that cannot be lifted when in their bottom resting position.

1 Within 20 seconds of turning off the vehicle, push and hold the wiper lever down to the MIST (or 1x) position for about 2 seconds until the wipers move to the top wipe position.



2 Lift the wipers off the windshield.

3 Lift up the wiper blade clip (1). Then pull down the wiper blade (2). Remove the wiper blade from the wiper arm.



4 Install a new wiper blade assembly in the reverse order of removal.



- 5 Gently put down the wiper back onto the windshield.
- 6 With the Start/Stop button in the ON position, turn the wiper switch to any ON position to return the wipers to the bottom resting position.

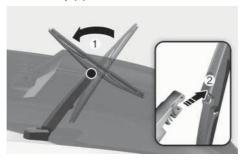
#### NOTICE

- · Avoid the wipers from touching the windshield when the wiper blade is disassembled to prevent windshield damage.
- The wiper may not operate for about 10 seconds if the wiper is operated without washer fluid or the blades are frozen to prevent damage to the motor.

### Rear window wiper blade replacement

1 Raise the wiper arm and then rotate the wiper blade assembly (1).

2 Pull out the wiper blade assembly (2).



3 Install the new blade assembly by inserting the center part into the slot in the wiper arm until it clicks into place (3).



4 If the replacement is complete, put down the wiper arm onto the rear windshield, and turn the vehicle ON and operate the wipers to check the blade is installed correctly.

## Battery (12 V)



#### WARNING

To prevent SERIOUS INJURY or DEATH to you or bystanders, always follow these precautions when working near or handling the battery:

Always read and follow instructions carefully when handling a battery.



Wear eye protection designed to protect the eyes from acid splashes.



Keep all flames, sparks, or smoking materials away from the battery.



Hydrogen is always present in battery cells, is highly combustible, and may explode if ignited.



Keep batteries out of reach of children.



Batteries contain sulfuric acid which is highly corrosive. Do not allow acid to contact your eyes, skin or clothing.

If acid gets into your eyes, flush your eyes with clean water for at least 15 minutes and get immediate medical attention. If acid gets on your skin, thoroughly wash the area. If you feel pain or a burning sensation, get medical attention immediately.



• When lifting a plastic-cased battery, excessive pressure on the case may cause battery acid to leak. Lift with a battery carrier or with your hands on opposite corners.

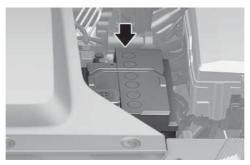
- Do not attempt to jump start your vehicle if your battery is frozen.
- NEVER attempt to recharge the battery when the vehicle's battery cables are connected to the battery.
- The electrical ignition switch works with high voltage. NEVER touch these components with the READY indicator ON or when the Start/Stop button is in the ON position.

#### NOTICE

Always follow these instructions when handling your vehicle's battery to prevent damage to your battery:

- When you do not use the vehicle for a long time in a low temperature area, disconnect the battery and keep it indoors.
- Always charge the battery fully to prevent battery case damage in low temperature areas.
- Prevent liquid from wetting the battery terminals. The performance of the battery may be degraded, and may cause injury. Be cautious when loading liquid in the cargo area.
- · Do not tilt the battery.
- If you connect unauthorized electronic devices to the battery, the battery may be discharged. Never use unauthorized devices.

## For best battery service



- · Keep the battery securely mounted.
- Keep the battery top clean and dry.
- Keep the terminals and connections clean, tight, and coated with petroleum jelly or terminal grease.
- Rinse any spilled electrolyte from the battery immediately with a solution of water and baking soda.
- If the vehicle is not going to be used for an extended time, disconnect the battery cables.

## **Battery capacity label**



#### Information

The actual battery label in the vehicle may differ from the illustration.

- 1 CMF60L-DIN: The HYUNDAI model name of battery
- 2 12V: The nominal voltage
- 3 60Ah (20HR): The nominal capacity (in Ampere hours)
- 4 RC 92min: The nominal reserve capacity (in min.)
- 5 CCA 550A (SAE/EN): The cold-test current in amperes

#### Information

For vehicles with power tailgate, note that the power tailgate needs to be reset after the battery has been replaced. For more information, refer to "Power tailgate" section in chapter 5.

## **Battery recharging**

# By battery charger

Your vehicle has a maintenance-free, calcium-based battery.

- If the battery becomes discharged over a short time (because, for example, the headlights or interior lights were left on while the vehicle was not in use), recharge it by slow charging (trickle) for 10 hours.
- · If the battery gradually discharges because of high electrical load while the vehicle is being used, recharge it at 20-30A for two hours.

# **MARNING**

Always follow these instructions when recharging your vehicle's battery to avoid the risk of SERIOUS INJURY or DEATH from explosions or acid burns:

- Before performing maintenance or recharging the battery, turn off all accessories and stop the vehicle.
- · Keep all flames, sparks, or smoking materials away from the battery.
- Always work outdoors or in an area with plenty of ventilation.
- · Wear eye protection when checking the battery during charging.
- The battery must be removed from the vehicle and placed in a well ventilated area.
- Watch the battery during charging, and stop or reduce the charging rate if the battery cells begin boiling violently.
- The negative battery cable must be removed first and installed last when the battery is disconnected. Disconnect the battery charger in the following order:
  - 1 Turn off the battery charger main switch.
  - 2 Unhook the negative clamp from the negative battery terminal.
  - 3 Unhook the positive clamp from the positive battery terminal.
- We recommend that you use batteries for replacement from an authorized HYUNDAI dealer.

## By jump starting

After a jump start from a good battery, drive the vehicle for 20-30 minutes before it is shutoff. The vehicle may not restart if you shut it off before the battery had a chance to adequately recharge. See "Jump starting (12 V battery)" in chapter 8 for more information on jump starting procedures.

Information



An inappropriately disposed battery can be harmful to the environment and human health. Dispose of the battery according to your local law(s) or regulation.

#### Reset items

The following items may need to be reset after the battery has been discharged or the battery has been disconnected.

- Drive info/After recharing/Accumulated info (refer to chapter 4)
- Power window (refer to chapter 5)
- Climate control system (refer to chapter 5)
- Power tailgate (refer to chapter 5)
- Clock (refer to Infotainment system manual)
- Infotainment system (refer to Infotainment system manual)

#### Tires and wheels



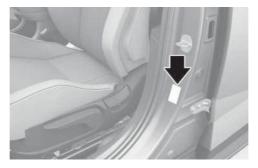
## **MARNING**

Tire failure may cause loss of vehicle control resulting in an accident. To reduce risk of SERIOUS INJURY or DEATH, take the following precautions:

- Inspect your tires monthly for proper inflation as well as wear and damage.
- The recommended cold tire pressure for your vehicle can be found in this manual and on the tire label located on the driver's side center pillar. Always use a tire pressure gauge to measure tire pressure. Tires with too much or too little pressure wear unevenly causing poor handling.
- Check the pressure of the spare every time you check the pressure of the other tires on vour vehicle.
- · Replace tires that are worn, show uneven wear, or are damaged. Worn tires can cause loss of braking effectiveness, steering control, or traction.
- · ALWAYS replace tires with the same size, type, construction and tread pattern as each tire that was originally supplied with this vehicle. Using tires and wheels other than the recommended sizes could cause unusual handling characteristics, poor vehicle control, or negatively affect your vehicle's Anti-Lock Brake System (ABS) resulting in a serious accident.

#### Tire care

For proper maintenance, safety, and maximum electric energy economy, you must always maintain recommended tire inflation pressures and stay within the load limits and weight distribution recommended for your vehicle.



All specifications (sizes and pressures) can be found on a label attached to the driver's side center pillar.

# Recommended cold tire inflation pressures

All tire pressures (including the spare) should be checked when the tires are cold. "Cold tires" means the vehicle has not been driven for at least 3 hours or driven less than 1.6 km (1 mi.).

Warm tires normally exceed recommended cold tire pressures by 28 to 41 kPa (4 to 6 psi). Do not release air from warm tires to adjust the pressure or the tires will be underinflated. For recommended inflation pressure, refer to the "Tires and wheels" section in chapter 2.

# WARNING

Recommended pressures must be maintained for the best ride, vehicle handling, and minimum tire wear.

Over-inflation or under-inflation can reduce tire life, adversely affect vehicle handling, and lead to sudden tire failure that could result in loss of vehicle control resulting in an accident

Severe under-inflation can lead to severe heat build-up, causing blowouts, tread separation and other tire failures that can result in the loss of vehicle control resulting in an accident. This risk is much higher on hot days and when driving for long periods at high speeds.



## CAUTION

- Under-inflation results in excessive wear, poor handling and reduced electric energy economy. Wheel deformation is also possible. Keep your tire pressures at the proper levels. If a tire frequently needs refilling, we recommend it be checked by an authorized HYUNDAI dealer.
- · Over-inflation produces a harsh ride, excessive wear at the center of the tire tread, and a greater possibility of damage from road hazards.

#### Check tire inflation pressure

Check your tires, including the spare tire, once a month or more.

#### How to check

Use a good quality tire pressure gauge to check tire pressure. You can not tell if your tires are properly inflated simply by looking at them. Radial tires may look properly inflated when they are under-inflated.

Remove the valve cap from the tire valve stem. Press the tire gauge firmly onto the valve to get a pressure measurement. If the cold tire inflation pressure matches the recommended pressure on the tire and loading information label, no further adjustment is necessary. If the pressure is low, add air until you reach the recommended pressure. Make sure to put the valve caps back on the valve stems. Without the valve cap, dirt or moisture could get into the valve core and cause air leakage. If a valve cap is missing, install a new one as soon as possible.

If you overfill the tire, release air by pushing on the metal stem in the center of the tire valve. Recheck the tire pressure with the tire gauge. Be sure to put the valve caps back on the valve stems. Without the valve cap, dirt or moisture could get into the valve core and cause air leakage. If a valve cap is missing, install a new one as soon as possible.

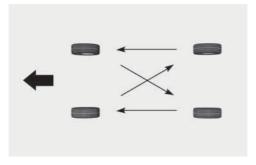
#### Tire rotation

To equalize tread wear, HYUNDAI recommends that the tires be rotated every 12,000 km (7,500 mi.) or sooner if irregular wear develops.

During rotation, check the tires for correct balance.

When rotating tires, check for uneven wear and damage. Abnormal wear is usually caused by incorrect tire pressure, improper wheel alignment, out-of-balance wheels, severe braking or severe cornering. Look for bumps or bulges in the tread or side of the tire. Replace the tire if you find any of these conditions. Replace the tire if fabric or cord is

visible. After rotation, be sure to bring the front and rear tire pressures to specification and check nut torque (proper torque is 18-20 kgf·m [130-145 lbf·ft]).



Disc brake pads should be inspected for wear whenever tires are rotated.

#### Information

The outside and inside of the unsymmetrical tire is distinguishable. When installing an unsymmetrical tire, be sure to install the side marked "outside" face the outside. If the side marked "inside" is installed on the outside, it will have a negative effect on vehicle performance.



# WARNING .

- Do not use the compact spare tire for tire rotation.
- Do not mix bias ply and radial ply tires under any circumstances. This may cause unusual handling characteristics that may cause loss of vehicle control resulting in an accident.

# Wheel alignment and tire balance

The wheels on your vehicle were aligned and balanced carefully at the factory to give you the longest tire life and best overall performance.

In most cases, you will not need to have your wheels aligned again. However, if you notice unusual tire wear or your vehicle pulling one way or the other, the alignment may need to be reset.

If you notice your vehicle vibrating when driving on a smooth road, your wheels may need to be rebalanced.

#### NOTICE

Incorrect wheel weights can damage your vehicle's aluminum wheels. Use only approved wheel weights.

## Tire replacement



#### [A] Tread wear indicator

If the tire is worn evenly, a tread wear indicator will appear as a solid band across the tread. This shows there is less than 1.6 mm (1/16 in.) of tread left on the tire. Replace the tire when this happens.

Do not wait for the band to appear across the entire tread before replacing the tire.



#### ▲ WARNING

To reduce the risk of DEATH or SERIOUS INJURY:

- Replace tires that are worn, show uneven wear, or are damaged. Worn tires can cause loss of braking effectiveness, steering control, and traction.
- · Always replace tires with the same size as each tire that was originally supplied with this vehicle. Using tires and wheels other than the recommended sizes could cause unusual handling characteristics, poor vehicle control, or negatively affect your vehicle's Anti-Lock Brake System (ABS) resulting in a serious accident.
- When replacing tires (or wheels), it is recommended to replace the two front or two rear tires (or wheels) as a pair. Replacing just one tire can seriously affect your vehicle's handling.
- Tires degrade over time, even when they are not being used. Regardless of the remaining tread, HYUNDAI recommends that tires be replaced after 6 years of normal service.
- Heat caused by hot climates or frequent high loading conditions can accelerate the aging process. Failure to follow this warning may cause sudden tire failure, which could lead to a loss of vehicle control resulting in an accident.



#### MARNING

The original tire should be repaired or replaced as soon as possible to avoid failure of the spare and loss of vehicle control resulting in an accident. The compact spare tire is for emergency use only. Do not operate your vehicle over 80 km/h (50 mph) when using the compact spare tire.

## Wheel replacement

When replacing the metal wheels for any reason, make sure the new wheels are equivalent to the original factory units in diameter, rim width and offset.

#### Tire traction

Tire traction can be reduced if you drive on worn tires, tires that are improperly inflated or on slippery road surfaces. Tires should be replaced when tread wear indicators appear. To reduce the possibility of losing control, slow down whenever there is rain, snow or ice on the road.

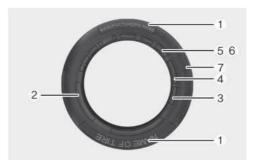
#### Tire maintenance

In addition to proper inflation, correct wheel alignment helps to decrease tire wear. If you find a tire is worn unevenly, have your dealer check the wheel alignment.

When you have new tires installed, make sure they are balanced. This will increase vehicle ride comfort and tire life. Additionally, a tire should always be rebalanced if it is removed from the wheel.

#### Tire sidewall labeling

This information identifies and describes the fundamental characteristics of the tire and also provides the tire identification number (TIN) for safety standard certification. The TIN can be used to identify the tire in case of a recall.



#### 1. Manufacturer or brand name

Manufacturer or brand name is shown.

# 2. Tire size designation

A tire's sidewall is marked with a tire size designation. You will need this information when selecting replacement tires for your car. The following explains what the letters and numbers in the tire size designation mean.

Example tire size designation:

(These numbers are provided as an example only; your tire size designator could vary depending on your vehicle.)

275/35ZR21 103Y

275: Tire width in millimeters.

35: Aspect ratio. The tire's section height as a percentage of its width.

ZR: Tire construction code (Radial).

21: Rim diameter in inches.

103: Load Index, a numerical code associated with the maximum load the tire can carry.

Y: 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:

9.5J X 21

9.5: Rim width in inches.

J: Rim contour designation.

21: Rim diameter in inches.

#### Tire speed ratings

The chart below lists many of the different speed ratings currently being used for passenger vehicle tires. The speed rating is part of the tire size designation on the sidewall of the tire. This symbol corresponds to that tire's designed maximum safe operating speed.

Speed Rating Symbol	Maximum Speed
S	180 km/h (112 mph)
Т	190 km/h (118 mph)
Н	210 km/h (130 mph)
V	240 km/h (149 mph)
W	270 km/h (168 mph)
Υ	300 km/h (186 mph)

# 3. Checking tire life (TIN: Tire Identification Number)

Any tires that are over six years old, based on the manufacturing date, (including the spare tire) should be replaced by new ones. You can find the manufacturing date on the tire sidewall (possibly on the inside of the wheel), displaying the DOT Code. The DOT Code is a series of numbers on a tire consisting of numbers and English letters. The manufacturing date is designated by the last four digits (characters) of the DOT code.

#### DOT: XXX XXXXXX 0000

The front part of the DOT shows a plant code number, tire size and tread pattern and the last four numbers indicate week and year manufactured.

For example:

DOT XXX XXXXXX 5024 represents that the tire was produced in the 50th week of 2024.

## 4. Tire ply composition and material

The number of layers or plies of rubber-coated fabric in the tire. Tire manufacturers also must indicate the materials in the tire, which include steel, nylon, polyester, and others. The letter "R" means radial ply construction; the letter "D" means diagonal or bias ply construction; and the letter "B" means belted-bias ply construction.

#### 5. Maximum permissible inflation pressure

This number is the greatest amount of air pressure that should be put in the tire. Do not exceed the maximum permissible inflation pressure.

## 6. Maximum load rating

This number indicates the maximum load in kilograms and pounds that can be carried by the tire. When replacing the tires on the vehicle, always use a tire that has the same load rating as the factory installed tire.

## 7. Uniform tire quality grading

Quality grades can be found where applicable on the tire sidewall between tread shoulder and maximum section width.

For example:

TREADWEAR 200

TRACTION AA

**TEMPERATURE A** 

#### Tread wear

The tread wear grade is a comparative rating based on the wear rate of the tire when tested under controlled conditions on a specified government test course. For example, a tire graded 150 would wear one-and-a-half times (11/2) as well on the government course as a tire graded 100.

The relative performance of tires depends upon the actual conditions of their use, however, and may depart significantly from the norm due to variations in driving habits, service practices and differences in road characteristics and climate.

These grades are molded on the sidewalls of passenger vehicle tires. The tires available as standard or optional equipment on your vehicle may vary with respect to grade.

#### Traction - AA, A, B & C

The traction grades, from highest to lowest, are AA, A, B and C. Those grades represent the tire's ability to stop on wet pavement as measured under controlled conditions on specified government test surfaces of asphalt and concrete. A tire marked C may have poor traction performance.



#### WARNING

The traction grade assigned to this tire is based on straight ahead braking traction tests, and does not include acceleration, cornering, hydroplaning, or peak traction characteristics.

#### Temperature - A, B & C

The temperature grades are A (the highest), B and C representing the tire's resistance to the generation of heat and its ability to dissipate heat when tested under controlled conditions on a specified indoor laboratory test wheel.

Sustained high temperature can cause the material of the tire to degenerate and reduce tire life, and excessive temperature can lead to sudden tire failure. Grades B and A represent higher levels of performance on the laboratory test wheel than the minimum required by law.



#### WARNING

The temperature grade for this tire is established for a tire that is properly inflated and not overloaded. Excessive speed, under-inflation, over-inflation, or excessive loading, either separately or in combination, can cause heat build-up and possible sudden tire failure. This may cause loss of vehicle control resulting in an accident.

#### Low aspect ratio tires

## tif equipped

The aspect ratio is lower than 50 on low aspect ratio tires.

Because low aspect ratio tires are optimized for handling and braking, their sidewall is a little stiffer than a standard tire. Also low aspect ratio tires tend to be wider and consequently have a greater contact patch with the road surface. In some instances they may generate more road noise compared with standard tires.



# **CAUTION**

The side wall of a low aspect ratio tire is shorter than the normal one. Thus, the lowaspect wheel and tire are easily damaged. Follow the below instructions.

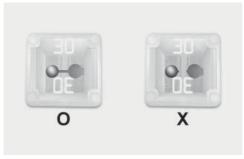
- When driving on a rough road or driving off a road, be careful not to damage the tires and wheels. After driving, inspect the tires and wheels.
- When passing over a pothole, speed bump, manhole, or curb stone, drive the vehicle slowly so as not to damage the tires and wheels.
- When there is an impact on a tire, inspect the tire condition. We recommend that you contact an authorized HYUNDAI dealer.
- Inspect the tire condition and pressure every 3,000 km (1,800 mi.) to prevent tire damage.
- It is difficult to recognize a tire damage only with your eyes. When there is a slight hint of a tire damage, check and replace the tire to prevent the damage caused by air leakage.
- · When a tire is damaged while driving on a rough road, off a road, or over obstacles, such as a pothole, manhole, or curb stone, your warranty does not cover the damage.
- The tire information is specified on the tire side wall.

#### **Fuses**

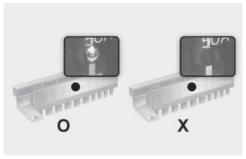




Cartridge type



Multi type



A vehicle's electrical system is protected from electrical overload damage by fuses. This vehicle has 2 (or 3) fuse panels, one located in the driver's side panel bolster, the other in the motor compartment.

If any of your vehicle's lights, accessories, or controls do not work, check the appropriate circuit fuse. If a fuse has blown, the element inside the fuse is melted or broken.

If the electrical system does not work, first check the driver's side fuse panel. Before replacing a blown fuse, turn off the vehicle and all switches, 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 we recommend that you contact an authorized HYUNDAI dealer.



#### MARNING .

Never replace a fuse with anything but another fuse of the same rating.

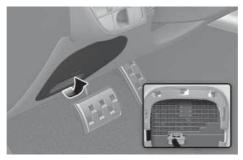
- A higher capacity fuse may cause damage and possibly cause a fire.
- Do not install a wire or aluminum foil instead of the proper fuse even as a temporary repair. It may cause extensive wiring damage and possibly a fire.

#### NOTICE

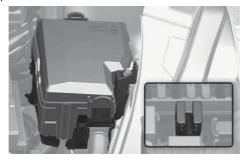
Do not use a screwdriver or any other metal object to remove fuses because it may cause a short circuit and damage the system.

#### Instrument panel fuse replacement

- 1 Turn off the vehicle.
- 2 Turn off all other switches.
- 3 Open the fuse panel cover.



- 4 Refer to the label on the inside of the fuse panel cover to locate the suspected fuse location.
- 5 Pull the suspected fuse straight out. Use the removal tool provided in the motor compartment fuses panel cover.



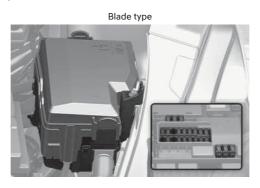
- 6 Check the removed fuse and replace it if it is blown. Spare fuses are provided in the instrument panel fuse panels (or in the motor compartment fuse panel).
- 7 Push in a new fuse of the same rating, and make sure it fits tightly in the clips. If it is not tight, we recommend that you contact an authorized HYUNDAI dealer.

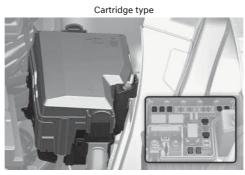
In an emergency, if you do not have a spare fuse, use a fuse of the same rating from a circuit you may not need for operating the vehicle.

If the headlights or other electrical components do not work and the fuses are undamaged, check the fuse panel in the motor compartment.

## Motor compartment panel fuse replacement

## Blade fuse / Cartridge fuse





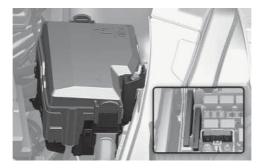
- 1 Turn off the vehicle.
- 2 Turn off all other switches.
- 3 Remove the fuse panel cover by pressing the tap and pulling up.
- 4 Refer to the label on the inside of the fuse panel cover to locate the suspected fuse location.
- 5 Pull the suspected fuse straight out. Use the removal tool provided in the motor compartment fuses panel cover.
- 6 Check the removed fuse and replace it if it is blown. To remove or insert the fuse, use the fuse puller in the motor compartment fuse panel.

7 Push in a new fuse of the same rating, and make sure it fits tightly in the clips. If it is not tight, we recommend that your vehicle be inspected by an authorized HYUNDAI dealer.

#### NOTICE

Always securely install the fuse panel cover. Water may contact the fuse and cause an electrical failure.

#### Multi fuse



If the multi fuse or midi fuse is blown, contact an authorized HYUNDAI dealer.

## Fuse/relay panel description

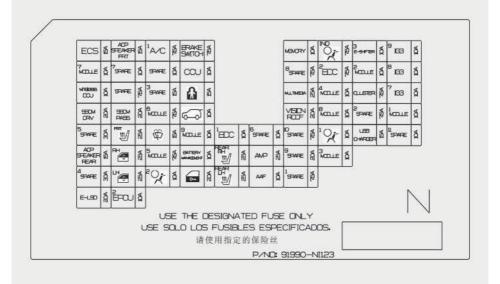
#### Instrument panel fuse panel



Inside the fuse panel cover, you can find the panel label describing fuse names and ratings.

Information

Not all fuse panel descriptions in this manual may be applicable to your vehicle. When you inspect the fuse panel on your vehicle, refer to the fuse panel label.



## Instrument panel fuse panel

Fuse name	Symbol	Fuse rating	Circuit protected
ECS	ECS	15 A	ECS UNIT
ADP SPEAKER FRT	ADP SPEAKER FRT	15 A	FRT ADP SPEAKER
A/C1	<sup>1</sup> A/C	7.5 A	A/C CONTROL MODULE
BRAKE SWITCH	BRAKE SWITCH	7.5 A	BDC, STOP LAMP SWITCH

Fuse name	Symbol	Fuse rating	Circuit protected
MEMORY	MEMORY	10 A	A/C CONTROL MODULE, HUD UNIT, MOOD LAMP(MASTER UNIT, DOOR), WPC, USB JACK, CLUSTER, ADAS PRK ECU, BDC, ADP UNIT, REAR CORNER RADAR
AIRBAG IND	ŽÕŽ	7.5 A	OVERHEAD CONSOLE PAB LAMP
E-SHIFTER 3	3 E-SHIFTER	10 A	SBW LEVER COMPLETE
IG3 9	9 IG3	10 A	BMS, REAR INVERTER
MODULE 7	7 MODULE	10 A	P/WDW MAIN SW, O/S HDL DRIV/PASS
CCU	CCU	10 A	CCU
BDC 2	<sup>2</sup> BDC	7.5 A	BDC
MODULE 2	2 MODULE	10 A	DCU, CCU, STOP LAMP SWITCH
IG3 8	<sup>8</sup> IG3	10 A	ICCU, V2L, SCU, VCMS, REAR EOP, CCU
WIRELESS DCU	wireless DCU	10 A	DCU
CHILD LOCK		15 A	REAR DOOR LATCH LH/RH
MULTIMEDIA	MULTIMEDIA	25 A	CCNC
MODULE 4	4 MODULE	10 A	WPC, C/PAD SW, CCNC, DATA LINK CONNECTOR, ECM(DCM), ADP, EXT AMP, HEAD LAMP OPTION TYPE LH/RH

Fuse name	Symbol	Fuse rating	Circuit protected
CLUSTER	CLUSTER	7.5 A	CLUSTER, HUD UNIT
IG3 7	7 IG3	10 A	CCNC, A/C CONTROL MODULE, PTC HTR, INCAR SNSR, PM SNSR
SBCM DRV	SBCM DRV	20 A	SBCM DRIV UNIT
SBCM PASS	SBCM PASS	20 A	SBCM PASS UNIT
MODULE 6	6 MODULE	7.5 A	DATA LINK CONNECTOR
TAILGATE OPEN	6	10 A	TAILGATE LATCH
VISION ROOF	VISION ROOF	20 A	VISION ROOF ECU
MODULE 8	8 MODULE	7.5 A	MULTI FUNCTION SW, P/WDW MAIN SW
MODULE 1	1 MODULE	10 A	CCU, ADAR PRK ECU, BDC, CCNC, KEYBOARD, DCU, PE ROOM J/B P/OUTLET RLY COIL, EXT AMP, ADP UNIT, FR ADP SPEAKER, RR ADP SPEAKER
S/HEATER FRT	FRT	25 A	FR PASS SEAT HEATER ECU
WASHER		15 A	MULTI FUNCTION SW
MODULE 9	9 MODULE	10 A	DATA LINK CONNECTOR, RAIN SNSR, HAZARD SW MULTI FUNCTION SW, UIP SNSR/SIREN, PTGM
BDC 1	<sup>1</sup> BDC	10 A	UWB BLE MASTER/SLAVE, BDC, UWB REAR LH/RH, UWB FR LH/RH

Fuse name	Symbol	Fuse rating	Circuit protected	
AIRBAG 1	<sup>1</sup> 0;⁄	10 A	AIRBAG CONTROL UNIT	
USB CHARGER	USB CHARGER	15 A	RR USB CHARGER, CTR USB CHARGER, USB JACK	
ADP SPEAKER REAR	ADP SPEAKER REAR	15 A	REAR ADP SPEAKER	
P/WINDOW RH	RH	25 A	FR PASS P/WDW SW(LHD), RR RH P/WDW SW FR PASS SAFETY ECU(LHD), FR DRIV SAFETY ECU(RHD)	
MODULE 5	5 MODULE	7.5 A	BCD	
BATTERY MANAGEMENT	BATTERY MANAGEMENT	10 A	BMS	
S/HEATER REAR RH	E AL AL	25 A	REAR SEAT RH HEATER ECU	
AMP	AMP	25 A	EXT AMP	
MODULE 3	3 MODULE	10 A	C/PAD SW, ADAS DRV ECU, FR CAMERA(W/S GLASS) ADAS PRK ECU, RR INVERTER, RR C/RADAR, SCC RADAR ECS UNIT, FR INVERTER, ELSD ECU, FR C/RADAR	
P/WINDOW LH	LH	25 A	FR PASS P/WDW SW(RHD), RR LH P/WDW SW FR PASS SAFETY ECU(RHD), FR DRIV SAFETY ECU(LHD)	
AIRBAG 2	20%	10 A	AIRBAG CONTROL UNIT	
DOOR LOCK	9-	20 A	FR DOOR ACTR DRIV/PASS RR DOOR ACTR LH/RH	
S/HEATER REAR LH	REAR LH	25 A	REAR SEAT LH HEATER ECU	

Fuse name	Symbol	Fuse rating	Circuit protected
AAF	AAF	10 A	AAF UNIT UPR/LH/RH
E-LSD	E-LSD	20 A	E-LSD ECU
EPCU 2	<sup>2</sup> EPCU	10 A	RR INVERTER

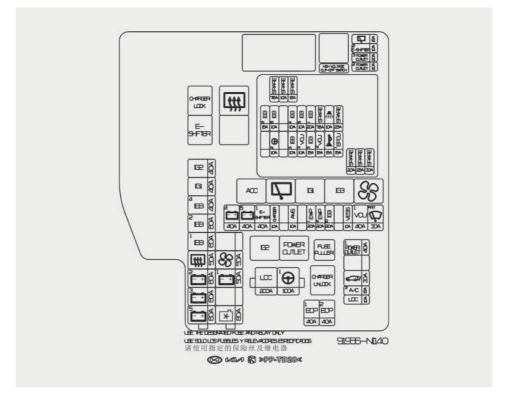
# Motor compartment fuse panel (Motor compartment junction block)



Inside the fuse panel cover, you can find the panel label describing fuse names and ratings.

## Information

Not all fuse panel descriptions in this manual may be applicable to your vehicle. When you inspect the fuse panel on your vehicle, refer to the fuse panel label.



Motor compartment fuse panel (Motor compartment junction block)

Туре	Fuse name	Symbol	Fuse rating	Circuit protected
MULTI	LDC	LDC	200 A	PE ROOM J/B (FUSE: A/CON2, PTGM, EOP2, EOP1, P/OUTLET)
FUSE-1	MDPS 1	1	100 A	MDPS UNIT
MULTI FUSE-2	IG2	IG2	40 A	PE ROOM J/B (RELAY: IG2)
	IG1	IG1	40 A	PE ROOM J/B (RELAY: ACC, IG1)

Туре	Fuse name	Symbol	Fuse rating	Circuit protected
	IEB4	4 IEB	40 A	DATA LINK CONNECTOR (DIAGNOSIS)
	IEB2	<sup>2</sup> IEB	60 A	IEB UNIT
	IEB1	1 IEB	60 A	IEB UNIT
	RR HTD	<b>\$</b> \$\$\$	50 A	PE ROOM J/B (RELAY: RR HTD)
	B+2	2 -+	60 A	PDC (FUSE: CHILD LOCK, BDC1, BRAKE SW, CCU, S/HEATER RR LH / RH, DR LOCK, TAILGATE OPEN), (RLY: AUTO CUT RLY)
	B+3	3 = +	60 A	PDC (FUSE: ECS, E-LSD, EPCU2, ADP SPKR RR, S/HEATER FRT ADP SPKR FR, P/WINDOW LH/RH, SBCM DRIV/PASS, DCU, MODULE7)
	B+5	5 <del>- +</del>	60 A	PCB BLOCK (FUSE: EPCU1, VCU2, WIPER1, B/A HORN, HORN) (RLY: IG3)
	BLOWER	K)	50 A	PE ROOM J/B (RELAY: BLOWER)
MULTI FUSE-3	B+1	1 = +	50 A	PDC (FUSE: AMP, MODULE9, BATTERY MANAGEMENT, AAF, AIR BAG2, VISION ROOF)
	COOLING FAN	*	80 A	COOLING FAN UNIT
FUSE	RR WIPER	Image: square of the content of the c	15 A	PE ROOM J/B (RELAY: RR WIPER)
	E- SHIFTER2	2 E-SHIFTER	10 A	PE ROOM J/B (RELAY: E-SHIFTER1 RLY COIL) SCU, SBW LEVER COMPLETE
	POWER OUTLET3	<sup>3</sup> POWER OUTLET	20 A	RR POWER OUTLET

Fuse name	Symbol	Fuse rating	Circuit protected
POWER OUTLET2	<sup>2</sup> POWER OUTLET	20 A	FR POWER OUTLET
B+4	4 = +	40 A	PDC (IPS9, IPS12, IPS11, IPS8, IPS10)
B+6	6 = +	40 A	PDC (IPS3, IPS7, IPS2, IPS6, IPS5, IPS1, IPS4)
E-SHIFTER1	1 E-SHIFTER	40 A	PE ROOM J/B (RELAY: E-SHIFTER1)
CHARGER	CHARGER	10 A	PE ROOM J/B (RELAY: CHARGER LOCK/UNLOCK SW, COIL) ICCU, VCMS
AMS	AMS	10 A	BATT SENSOR
EWP1	<sup>1</sup> EWP	20 A	EWP BATT 1
EWP2	<sup>2</sup> EWP	20 A	EWP BATT 2
IG3 10	<sup>10</sup> IG3	20 A	PE ROOM J/B (RELAY: IG3)
VESS	VESS	10 A	VESS UNIT
VCU1	¹ VCU	40 A	VCU
FRT WIPER	FRT	30 A	FRT WIPER MOTOR
POWER OUTLET1	1 POWER OUTLET	40 A	PE ROOM J/B (RELAY: P/OUTLET)

Туре	Fuse name	Symbol	Fuse rating	Circuit protected
	POWER TAILGATE	₩.	30 A	POWER TAILGATE MODULE
	A/C2	<sup>2</sup> A/C	15 A	A/C CONTROL MODULE
	LDC	LDC	10 A	DATA LINK CONNECTOR
	EOP1	1 EOP	40 A	RR EOP
	EOP2	<sup>2</sup> EOP	40 A	FRT EOP

# Motor compartment fuse panel (PCB block)

Fuse name	Symbol	Fuse rating	Circuit protected	
IG3 2	<sup>2</sup> IG3	15 A	VCU	
IG3 6	6 IG3	10 A	COOLING FAN, FRT EOP	
IG3 4	4 IG3	10 A	COOL VALVE, FRT INVERTER, EWP1, EWP2, E_COMP	
IG3 5	⁵ IG3	10 A	3WAY VALVE	
IG3 1	1 IG3	20 A	PDC (FUSE: IG3 7, IG3 8, IG3 9)	
B/A HORN	<i>1111</i>	10 A	PCB BLOCK (RLY: B/A HORN RLY)	
MDPS 2	²	10 A	MDPS	

Fuse name	Symbol	Fuse rating	Circuit protected	
IEB 3	3 IEB	10 A	IEB UNIT, DATA LINK CONNECTOR (DIAGNOSIS)	
VCU 3	<sup>3</sup> VCU	10 A	VCU	
IG3 3	³ IG3	15 A	RR PE EWP	
VCU 2	<sup>2</sup> VCU	15 A	vcu	
HORN	<b>-</b>	15 A	PCB BLOCK (RLY: HORN RLY)	
EPCU 1	<sup>1</sup> EPCU	15 A	FRT INVERTER	

# **Light bulbs**

We recommend that you contact an authorized HYUNDAI dealer to replace most vehicle light bulbs. It is difficult to replace vehicle light bulbs because other parts of the vehicle must be removed before you can get to the bulb. This is especially true for removing the headlight assembly to get to the bulb(s).

Removing/installing the headlight assembly may result in damage to the vehicle.



#### WARNING

- Prior to replacing a light bulb, depress the brake pedal, shift to P (Park), apply the
  parking brake, press the Start/Stop button to the OFF position and take the key with
  you when leaving the vehicle to avoid sudden movement of the vehicle and to prevent
  possible electric shock.
- Be aware the bulbs may be hot and may burn your fingers.

#### NOTICE

Be sure to replace the burned-out bulb with one of the same wattage to prevent damage to the fuse or electrical wiring system.

#### NOTICE

To prevent damage, do not clean the headlight lens with chemical solvents or strong detergents.

#### Information

This vehicle may be equipped with desiccant to reduce fogging inside the headlight due to moisture. The desiccant is consumable and its performance may change based on the used period or environment. If fogging inside the headlight due to moisture continues for a long time, we recommend that you consult an authorized HYUNDAI dealer.

#### Information

The headlight and tail light lenses could appear to have condensation inside if the vehicle is washed after driving or if the vehicle is driven in wet weather. This condition is caused by a higher temperature inside the light and a cooler outside temperature. Moisture that condenses in the light is removed after driving with the light on. If the moisture is not removed, we recommend that you have the vehicle inspected by an authorized HYUNDAI dealer.

#### Information

- A normally functioning light may flicker momentarily to stabilize the vehicle's electrical control system. If the light goes out, or continues to flicker, we recommend that you have the system inspected by an authorized HYUNDAI dealer.
- The position light may not turn on when the position light switch is turned on, but the
  position light and headlight switch may turn on when the headlight switch is turned on.
  This may be caused by network failure or vehicle electrical control system malfunction.
  If this occurs, we recommend that you have the system inspected by an authorized
  HYUNDAI dealer.

#### Information

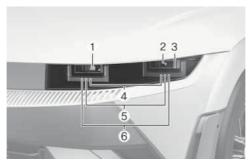
Adjust the headlight aim after an accident or the headlight is replaced.

#### Information

#### Traffic Change

The low beam light distribution is asymmetric. If you go abroad to a country with opposite traffic direction, this asymmetric part will dazzle oncoming car driver. To prevent dazzle, ECE regulation demand several technical solutions (for example, automatic change system, adhesive sheet, down aiming). This headlamps are designed not to dazzle opposite drivers. So, you need not change your headlamps in a country with opposite traffic direction.

# Headlight, position light, turn signal light, daytime running light (DRL) replacement



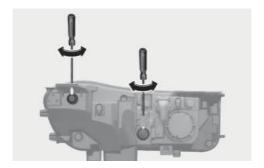
- 1. Headlight (Low)
- 2. Headlight (Sub low)
- 3. Headlight (High)
- 4. Daytime Running Light (DRL)
- 5. Position light
- 6. Turn signal light

If the LED light does not operate, we recommend that you have the system inspected by an authorized HYUNDAI dealer.

The LED light cannot be replaced as a single unit. A skilled technician should check or repair the LED light, for it may damage related parts of the vehicle.

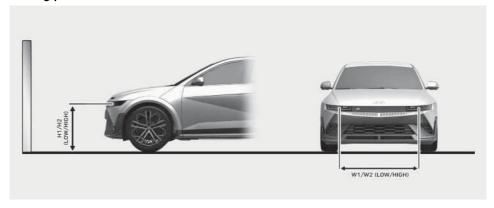
## **Headlight aiming (For Europe)**

## Headlight aiming



- 1 Inflate the tires to the specified pressure and remove any loads from the vehicle except the driver, spare tire, and tools.
- 2 The vehicle should be placed on a flat floor.
- 3 Draw vertical lines (vertical lines passing through respective headlamp centers) and a horizontal line (horizontal line passing through center of headlamps) on the screen.
- 4 With the headlight and battery in normal condition, aim the headlights so the brightest portion falls on the horizontal and vertical lines.
- 5 To aim the low beam left or right, turn the driver clockwise or counterclockwise. To aim the low beam up or down, turn the driver clockwise or counterclockwise.
  To aim the high beam up or down, turn the driver clockwise or counterclockwise.

# Aiming point



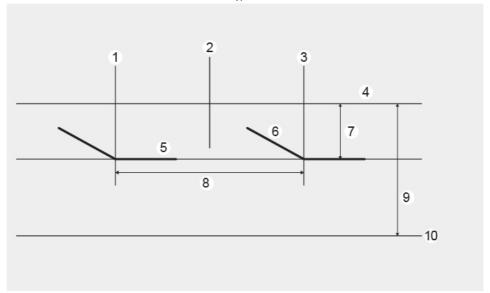
- 1. H1: Height between the headlight center and ground (Low beam)
- 2. H2: Height between the headlight center and ground (High beam)
- 3. W1: Distance between the two headlights centers (Low beam)

# 4. W2: Distance between the two headlights centers (High beam)

Vehicle condition	H1	H2	W1	W2
Without driver mm(in.)	518.5	507.5	1487.2	1079.8
	(20.4)	(20)	(58.6)	(42.5)
With driver	508.5	497.5	1487.2	1079.8
mm(in.)	(20)	(19.6)	(58.6)	(42.5)

Type A

# Headlight low beam



- 1. Vertical line of the left headlight bulb center
- 2. Car axis
- 3. Vertical line of the right headlight bulb center
- 4. cut-off line of left headlamp
- 5. cut-off elbow of left headlamp
- 6. cut-off line of right headlamp
- 7. cut-off elbow of right headlamp
- 8. W1 (Low beam)
- 9. H1 (High beam)
- 10. Ground
- 1 Turn the low beam on without driver aboard.
- 2 The cut-off line should be projected in the cut-off line shown in the picture.
- 3 When aiming the low beam, vertical aiming should be adjusted after adjusting the horizontal aiming.
- 4 If headlight leveling device is equipped, adjust the headlight leveling device switch to "0".

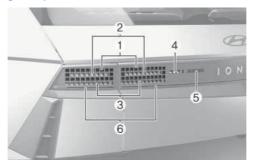
## Side repeater light replacement



If the side repeater light (1) does not operate, we recommend that the system be inspected by an authorized HYUNDAI dealer.

The LED light cannot be replaced as a single unit. A skilled technician should check or repair the LED light, for it may damage related parts of the vehicle.

## Rear combination light replacement



- 1. Tail/Stop light
- 2. Stop light
- 3. Turn signal light
- 4. Back up light
- 5. Rear fog light
- 6. Garnish tail

If the LED light does not operate, we recommend that your vehicle be inspected by an authorized HYUNDAI dealer.

The LED light cannot be replaced as a single unit. A skilled technician should check or repair the LED light, for it may damage related parts of the vehicle.

## High mounted stop light replacement



If the LED light (1) does not operate, we recommend that you have the system inspected by an authorized HYUNDAI dealer.

The LED light cannot be replaced as a single unit. A skilled technician should check or repair the LED light, for it may damage related parts of the vehicle.

## License plate light replacement

# License plate light



If the LED lamp (1) does not operate, we recommend that the system be inspected by an authorized HYUNDAI dealer.

The LED lamps cannot be replaced as a single unit because it is an integrated unit. The LED lamps has to be replaced with the unit.

A skilled technician should check or repair the LED lamp, for it may damage related parts of the vehicle.

# Interior light replacement

Map lamp, room lamp, personal lamp, vanity mirror lamp, glove box lamp, mood lamp, and cargo area lamp



Room lamp



Personal lamp



Vanity mirror lamp



Glove box lamp



Mood lamp



#### Cargo area lamp



If the LED lamp does not operate, we recommend that your vehicle be inspected by an authorized HYUNDAI dealer.

The LED light cannot be replaced as a single unit. A skilled technician should check or repair the LED light, for it may damage related parts of the vehicle.

## Appearance care

#### **Exterior care**

#### NOTICE

If you park your vehicle near a stainless steel sign or glass facade building, the vehicle's exterior plastic parts such as a bumper, spoiler, garnish, lamp or side view mirror might be damaged due to sunlight reflected from the sign or building. To prevent damage of the exterior plastic parts, you should avoid parking in areas where light may be reflected or use a car cover. (The exterior plastic parts applied to your vehicle may vary.)

### Exterior general caution

It is very important to follow the label directions when using any chemical cleaner or polish. Read all warning and caution statements that appear on the label.

#### Finish maintenance

#### Washing

To help protect your vehicle's finish from rust and deterioration, wash it thoroughly and frequently at least once a month with lukewarm or cold water.

If you use your vehicle for off-road driving, you should wash it after each off-road trip. Pay special attention to the removal of any accumulation of salt, dirt, mud, and other foreign materials. Make sure the drain holes in the lower edges of the doors and rocker panels are kept clear and clean.

Insects, tar, tree sap, bird droppings, industrial pollution and similar deposits can damage your vehicle's finish if not removed immediately.

Even prompt washing with plain water may not completely remove all these deposits. A mild soap, safe for use on painted surfaces, should be used.

After washing, rinse the vehicle thoroughly with lukewarm or cold water. Do not allow soap to dry on the finish.

#### High-pressure washing

- When using high-pressure washers, make sure to maintain sufficient distance from the vehicle.
  - Insufficient clearance or excessive pressure can lead to component damage or water penetration.
- Do not spray the camera, sensors or its surrounding area directly with a high pressure washer. Shock applied from high pressure water may cause the device to not operate normally.
- Do not bring the nozzle tip close to boots (rubber or plastic covers) or connectors as they may be damaged if they come into contact with high pressure water.



#### WARNING

After washing the vehicle, test the brakes while driving slowly to see if they have been affected by water before getting on the road. If braking performance is impaired, dry the brakes by applying them lightly while maintaining a slow forward speed.

#### NOTICE

- Do not use strong soap, chemical detergents or hot water, and do not wash the vehicle in direct sunlight or when the body of the vehicle is warm.
- · Be careful when washing the side windows of your vehicle.
- Especially, with high-pressure water, water may leak through the windows and wet the interior.
- To prevent damage to the plastic parts, do not clean with chemical solvents or strong detergents.



- Water washing in the motor compartment including high pressure water washing may cause the failure of electrical circuits located in the vehicle compartment.
- Never allow water or other liquids to come in contact with electrical/electronic components inside the vehicle as water or other liquids may flow in to the motor compartment through the front trunk and damage electrical/electronic components.

#### NOTICE

Matte paint finish vehicle (if equipped)

Automatic car wash which uses rotating brushes should not be used as this can damage the surface of your vehicle. A steam cleaner which washes the vehicle surface at high temperature may result the oil to adhere and leave stains that is difficult to remove.

Use a soft cloth (for example, microfiber towel or sponge) when washing your vehicle and dry with a microfiber towel. When you hand wash your vehicle, you should not use a cleaner that finishes with wax. If the vehicle surface is too dirty (sand, dirt, dust, contaminant, etc.), clean the surface with water before washing the car.

## Waxing

A good coat of wax is a barrier between your paint and contaminate. Keeping a good coat of wax on your vehicle will help protect it.

Wax the vehicle when water will no longer bead on the paint.

Always wash and dry the vehicle before waxing. Use a good quality liquid or paste wax, and follow the manufacturer's instructions. Wax all metal trim to protect it and to maintain its luster.

Removing oil, tar, and similar materials with a spot remover will usually strip the wax from the finish. Be sure to re-wax these areas even if the rest of the vehicle does not yet need waxing.

#### NOTICE

- Wiping dust or dirt off the body with a dry cloth will scratch the finish.
- Do not use steel wool, abrasive cleaners, or strong detergents containing highly alkaline or caustic agents on chrome-plated or anodized aluminum parts. This may result in damage to the protective coating and cause discoloration or paint deterioration.

#### NOTICE

Matte paint finish vehicle (if equipped)

Do not use any polish protector such as a detergent, an abrasive and a polish. In case wax is applied, remove the wax immediately using a silicon remover and if any tar or tar contaminant is on the surface use a tar remover to clean. However, be careful not to apply too much pressure on the painted area.

### Finish damage repair

Deep scratches or stone chips in the painted surface must be repaired promptly. Exposed metal will quickly rust and may develop into a major repair expense.

### **NOTICE**

If your vehicle is damaged and requires any metal repair or replacement, be sure the body shop applies anti-corrosion materials to the parts repaired or replaced.

#### NOTICE

Matte paint finish vehicle (if equipped)

In case of matte paint finish vehicles, it is impossible to modify only the damaged area and repair of the whole part is necessary. If the vehicle is damaged and painting is required, we recommend that you have your vehicle maintained and repaired by an authorized HYUNDAI dealer. Take extreme care, as it is difficult to restore the quality after the repair.

# Bright-metal maintenance

- To remove road tar and insects, use a tar remover, not a scraper or other sharp object.
- To protect the surfaces of bright metal parts from corrosion, apply a coating of wax or chrome preservative and rub to a high luster.
- During winter weather or in coastal areas, cover the bright metal parts with a
  heavier coating of wax or preservative. If necessary, coat the parts with non-corrosive
  petroleum jelly or other protective compound.

## Underbody maintenance

Corrosive materials used for ice and snow removal and dust control may collect on the underbody. If these materials are not removed, accelerated rusting can occur on underbody parts such as the frame and floor pan, even though they have been treated with rust protection.

Thoroughly flush the vehicle underbody and wheel openings with lukewarm or cold water once a month, after off-road driving and at the end of each winter. Pay special attention

to these areas because it is difficult to see all the mud and dirt. It will do more harm than good to wet down the road grime without removing it. The lower edges of doors, rocker panels, and frame members have drain holes that should not be allowed to clog with dirt; trapped water in these areas can cause rusting.



#### MARNING .

After washing the vehicle, test the brakes while driving slowly to see if they have been affected by water. If braking performance is impaired, dry the brakes by applying them lightly while maintaining a slow forward speed.

#### Aluminum wheel maintenance

The aluminum wheels are coated with a clear protective finish.

- Do not use abrasive cleaner, polishing compound, solvent, or wire brushes on aluminum wheels.
- · Clean the wheel when it has cooled.
- Use only a mild soap or neutral detergent, and rinse thoroughly with water. Also, clean
  the wheels after driving on salted roads.
- Do not wash the wheels with high-speed car wash brushes.
- Do not use any cleaners containing acid or alkaline detergents.

## Corrosion protection

#### Protecting your vehicle from corrosion

By using the most advanced design and construction practices to combat corrosion, HYUNDAI produces vehicles of the highest quality. However, this is only part of the job. To achieve the long-term corrosion resistance your vehicle can deliver, the owner's cooperation and assistance is also required.

#### Common causes of corrosion

The most common causes of corrosion on your vehicle are:

- Road salt, dirt and moisture that is allowed to accumulate underneath the vehicle.
- Removal of paint or protective coatings by stones, gravel, abrasion or minor scrapes and dents which leave unprotected metal exposed to corrosion.

#### **High-corrosion** areas

If you live in an area where your vehicle is regularly exposed to corrosive materials, corrosion protection is particularly important. Some of the common causes of accelerated corrosion are road salts, dust control chemicals, ocean air and industrial pollution.

#### Moisture breeds corrosion

Moisture creates the conditions in which corrosion is most likely to occur. For example, corrosion is accelerated by high humidity, particularly when temperatures are just above freezing. In such conditions, the corrosive material is kept in contact with the vehicle surfaces by moisture that is slow to evaporate.

Mud is particularly corrosive because it is slow to dry and holds moisture in contact with the vehicle. Although the mud appears to be dry, it can still retain moisture and promote corrosion.

High temperatures can also accelerate corrosion of parts that are not properly ventilated so the moisture can be dispersed. For all these reasons, it is particularly important to keep your vehicle clean and free of mud or accumulations of other materials. This applies not only to the visible surfaces but particularly to the underside of the vehicle.

## To help prevent corrosion

### Keep your vehicle clean

The best way to prevent corrosion is to keep your vehicle clean and free of corrosive materials. Attention to the underside of the vehicle is particularly important.

- If you live in a high-corrosion area where road salts are used, near the ocean, areas
  with industrial pollution, acid rain, etc., you should take extra care to prevent corrosion.
  In winter, hose off the underside of your vehicle at least once a month and be sure to
  clean the underside thoroughly when winter is over.
- When cleaning underneath the vehicle, pay particular attention to the components
  under the fenders and other areas that are hidden from view. Do a thorough job; just
  dampening the accumulated mud rather than washing it away will accelerate corrosion
  rather than prevent it. Water under high pressure and steam are particularly effective in
  removing accumulated mud and corrosive materials.
- When cleaning lower door panels, rocker panels and frame members, be sure that
  drain holes are kept open so that moisture can escape and not be trapped inside to
  accelerate corrosion.

#### Keep your garage dry

Don't park your vehicle in a damp, poorly ventilated garage. This creates a favorable environment for corrosion. This is particularly true if you wash your vehicle in the garage or drive it into the garage when it is still wet or covered with snow, ice or mud. Even a heated garage can contribute to corrosion unless it is well ventilated so moisture is dispersed.

#### Keep paint and trim in good condition

Scratches or chips in the finish should be covered with "touch-up" paint as soon as possible to reduce the possibility of corrosion. If bare metal is showing through, the attention of a qualified body and paint shop is recommended.

Bird droppings are highly corrosive and may damage painted surfaces in just a few hours. Always remove bird droppings as soon as possible.

#### Interior care

# Interior general precautions

Prevent caustic solutions such as perfume and cosmetic oil, from contacting the interior parts because they may cause damage or discoloration. If they do contact the interior parts, wipe them off immediately. See the instructions for the proper way to clean vehicle interior surfaces.

#### NOTICE

- Never allow water or other liquids to come in contact with electrical/electronic components inside the vehicle as this may damage them.
- When cleaning leather products (steering wheel, seats etc.), use neutral detergents or low alcohol content solutions. If you use high alcohol content solutions or acid/alkaline detergents, the color of the leather may fade or the surface may get stripped off.

## Cleaning the upholstery and interior trim

Vehicle interior surfaces

#### tif equipped

Remove dust and loose dirt from interior surfaces with a whisk broom or a vacuum cleaner. If necessary, clean interior surfaces with a mixture of warm water and mild non-detergent cleaner (test all cleaners on a concealed area before use).

#### Fabric

## tif 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

## tif equipped

- · Features of seat leather
  - Leather is made from the outer skin of an animal, which goes through a special process to be available for use. Since it is a natural product, each part differs in thickness or density.

Wrinkles may appear as a natural result of stretching and shrinking depending on the temperature and humidity.

- The seat is made of stretchable fabric to improve comfort.
- The parts contacting the body are curved and the side supporting area is high which provides driving comfort and stability.
- Wrinkles may appear naturally from usage. It is not a fault of the products.

#### NOTICE

- Wrinkles or abrasions which appear naturally from usage are not covered by warranty.
- Belts with metallic accessories, zippers or keys inside the back pocket may damage the seat fabric.
- Make sure not to wet the seat. It may change the nature of natural leather.
- Jeans or clothes which could bleach may contaminate the surface of the seat covering fabric.
- · Caring for the leather seats
  - Vacuum the seat periodically to remove dust and sand on the seat. It will prevent abrasion or damage of the leather and maintain its quality.
  - Wipe the natural leather seat cover often with dry or soft cloth.
  - Use of proper leather protector may prevent abrasion of the cover and helps maintain the color. Be sure to read the instructions and consult a specialist when using leather coating or protective agent.
  - Light colored (beige, cream beige, etc.) 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 the instructions below for removal of each contaminant.
  - Cosmetic products (sunscreen, foundation, etc.)
    - Apply cleansing cream on a cloth and wipe the contaminated spot. Wipe off the cream with a wet cloth and remove water with a dry cloth.
  - Beverages (coffee, soft drink, etc.)
    - Apply a small amount of neutral detergent and wipe until contaminations do not smear.
  - Oil
    - Remove oil instantly with absorbable cloth and wipe with stain remover used only for natural leather.
  - Chewing gum
    - Harden the gum with ice and remove gradually.

#### Alcantara (synthetic leather)

#### tif equipped

- Remove dust from Alcantara with a soft brush or dry cloth.
- After removing the dust, soak a white cotton cloth or sponge with a small amount of water and wipe Alcantara.

Information	
Avoid the inside of Alcantara getting wet when wiping.	

• Be careful not to dye the surface when using colored or printed cloth and sponge.

- Brushing with a soft brush after drying Alcantara can recover the original texture of the leather.
- · Remove fresh spots immediately.
- Depending on the type of stain, clean the surface with water, lemon juice, and pure ethyl alcohol or Alcantara cleaner.
- If the contaminated stain is serious, apply a small amount of neutral detergent diluted with water or Alcantara cleaner. Then wipe with lukewarm water.



#### CAUTION

When cleaning Alcantara products (steering wheel, seat, trim, etc.) with high alcohol content solutions (acid/alkaline detergents) or removing spots excessively, it may fade the color of the leather or may cause the surface to get stripped off.

## 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.

# 10. Appendix

# Vetrarakstur (íslenskur)

#### Snjor eða halka

Nauðsynlegt er að halda hæfilegri fjarlægð við næsta okutæki fyrir framan.

Stigðu varlega a bremsurnar. Hraðakstur, skyndileg hroðun, nauðhemlun og krappar beygjur geta falið i ser mikla hættu. Þegar dregið er ur hraða er raðlegt að beita velarhemlun sem kostur er. Skyndileg beiting hemla a snævi þoktum eða isuðum vegum kann að valda þvi að okutækið renni til.

Við akstur i djupum snjo kann að vera nauðsynlegt að nota vetrarhjolbarða eða setja keðjur a hjolbarðana.

Avallt skal hafa neyðarbunað meðferðis.

Æskilegur bunaður getur verið snjokeðjur, drattakaðlar eða -keðjur, vasaljos, neyðarblys, sandur, skofla, startkaplar, isskafa, hanskar, snjomotta, samfestingar, teppi o.s.frv.

#### Vetrardekk



#### 🛕 Viðvörun

Vetrardekk ættu að hafa sömu stærð og tegund og birgðadekk bílsins. Ef þú gerir það ekki getur bíllinn þinn verið minna stöðugur og minna öruggur í akstri.

Þegar hiti vegarins fer niður fyrir 7 °C (45 °F) ættir þú að skipta yfir í snjódekk. Þegar þú setur snjódekk á bílinn þinn skaltu halda sama dekkþrýstingi og verksmiðjudekkin. Settu vetrardekk á öll fjögur hjólin fyrir jafnt grip í snjó og hálku.

Á þurru slitlagi geta snjódekk ekki veitt eins mikið grip og verksmiðjudekk bílsins þíns. Leiðbeiningar um hámarkshraða ætti að athuga hjá söluaðila dekkja.

# Dekkjakeðjur (bílasokkur)



Þar sem hliðar þverbandahjolbarða eru þynnri geta þær skemmst ef einhverjar tegundir keðja eru settar upp a þeim. Þar af leiðandi er notkun snjohjolbarða raðlogð i stað snjokeðja.

Settu ekki upp keðjur a okutæki sem buin eru alfelgum; snjokeðjur kunna að valda skemmdum a felgunum. Ef það verður að nota snjokeðjur skal nota AutoSock (snjokeðju

ur duk). Skemmdir a okutækinu þinu af voldum notkunar rangra snjokeðja falla ekki undir abyrgð framleiðanda okutækisins.

Þegar keðjur eru notaðar skal aðeins setja keðjur a hjolbarðana að aftan.



# 🛕 Viðvörun

Notkun snjokeðja ur duk kann að hafa slæm ahrif a stjornun okutækisins:

- · Akið ekki hraðar en 30 km/klst. eða sem nemur þeim hamarkshraða sem framleiðandi keðjanna mælir með, hvort sem reynist lægra.
- · Akið gætilega og sneiðið hja þustum, holum, kroppum beygjum og oðrum hættum a veginum, sem gætu valdið hristingi okutækisins.
- · Forðist krappar beygjur og læsta hemlun.

## Upplýsingar

- Settu keðjur aðeins upp i porum og a hjolbarðana að aftan. Taka skal fram að uppsetning keðja a hjolbarðana veitir meiri aksturskraft, en kemur ekki i veg fyrir hliðarskrik.
- · Aður en negldir hjolbarðar eru settir a er rett að kynna ser reglur um notkun slikra hjolbarða a hverjum stað.

## Uppsetning keðj

Þegar keðjur eru settar upp skal fylgja leiðbeiningum framleiðandans og setja þær a eins bett og mogulegt er. Þegar keðjur hafa verið settar a skal aka hægt (undir 30 km/klst.). Ef hljoð heyrist sem bendir til að keðjurnar seu í snertingu við yfirbyggingu eða undirvagn er rett að nema staðar og herða keðjurnar. Ef snerting virðist enn eiga ser stað skal hægja aksturinn þar til hljoðið þagnar. Fjarlægðu keðjurnar um leið og þu ferð að aka a hreinsuðum vegum.

Þegar snjokeðjur eru settar upp skal leggja okutækinu a slettum fleti fjarri umferð. Kveikið a hættuljosum okutækisins og setjið viðvorunarþrihyrning upp fyrir aftan það (ef hann er til staðar). Hafið okutækið ævinlega i stoðuhemli og drepið a okutækinu aður en snjokeðjur eru settar upp.

#### ATHUGIÐ

Við notkun snjokeðja:

- Seu keðjur af rangri stærð eða rangt upp settar geta þær valdið skemmdum a hemlalogn, fjoðrun, yfirbyggingu og hjolum okutækisins.
- Ef hljoð heyrist vegna þess að keðjurnar snerta yfirbyggingu okutækisins skal herða þær aftur til að koma i veg fyrir snertingu við yfirbygginguna.
- Til að forðast skemmdir a yfirbyggingunni skal herða aftur a keðjunum eftir 0,5~1,0 km akstur.

# Barnaöryggisbúnaður (CRS) (ÍSLENSKA)

# Hentugleiki hverrar sætisstoðu fyrir bilstola sem festir eru með belti eða ISOFIX i samræmi við SÞ reglugerðir (fyrir Evropu)

(Upplysingar fyrir okutækjanotendur og framleiðendur barnabilstola)

- Ja: Hentar fyrir festingar þar til gerðrar flokkunar barnabilstola
- Nei: Hentar ekki fyrir festingar þar til gerðrar flokkunar barnabilstola
- "-": A ekki við
- Taflan er byggð a okutæki fyrir vinstri umferð. Að undanskildu farþegasæti að framan gildir taflan fyrir okutæki fyrir hægri umferð. Fyrir farþegasæti að framan i okutæki fyrir hægri umferð, vinsamlegast notaðu upplysingar fyrir sætisstoðu numer 3.

			Sætisstoður					
CRS flokkar			3		4	5	6	
CRO HORRAI			Oryggispuði KVEIKT	Oryggispuði SLOKKT				
Alhliða CRS með beltum	Allir stærðarhopar	-	Nei	Ja <sup>*1</sup> (F, A)	Ja (F, A)	Ja (F, A)	Ja (F, A)	
i-stærð CRS	ISOFIX CRF : F2, F2X, R1, R2	-	Nei	Nei	Ja (F, A)	Nei	Ja (F, A)	
Ungbarnabilstoll (ISOFIX hliðarvisandi CRS)	ISOFIX CRF : L1, L2	-	Nei	Nei	Nei	Nei	Nei	
ISOFIX ungbarna* CRS(* : ISOFIX barna CRS)	ISOFIX CRF : R1	-	Nei	Nei	Ja (A)	Nei	Ja (A)	
ISOFIX barna CRS - litill	ISOFIX CRF : F2, F2X, R2, R2X	-	Nei	Nei	Ja (F, A)	Nei	Ja (F, A)	
ISOFIX barna CRS - stor* (* : ekki bilpuðar)	ISOFIX CRF : F3, R3	-	Nei	Nei	Ja (F, A)	Nei	Ja (F, A)	
Sessa - smættaður breidd	ISO CRF: B2	-	Nei	Nei	Ja	Nei	Ja	
Sessa - full breidd	ISO CRF: B3	-	Nei	Nei	Ja	Nei	Ja	

<sup>\*1:</sup> Til að setja upp almennan aðhaldsbunað fyrir born ætti farþegasæti i 1. roð að vera i hæstu mogulegu stoðu.

F: Framvisandi, R: Afturvisandi

## Upplýsingar \_\_\_

- Setjið aldrei afturvisandi barnabilstol i farþegasætið fram i, nema slokkt se a loftpuðanum.
- Fyrir alhliða bilstola eða okutækjasertæka bilstola (ISOFIX eða bilstola með belti), skaltu skoða lista yfir okutæki i notkunarbæklingi barnabilstolsins.
- Ef hofuðpuði i okutæki kemur i veg fyrir retta uppsetningu aðhaldsbunaðar fyrir born skal endurstilla hofuðpuða þess sætis eða fjarlægja hann alveg.
- Þegar aðhaldsbunaður fyrir born er settur upp i 2. roð skal færa sætið i miðstoðuna.

Sætisnumer	Staðsetning i okutækinu	Sætisstaða
1	Fram i til vinstri	
2	Fram i miðja	
3	Fram i til hægri	
4	Onnur roð til vinstri	
5	Onnur roð i miðju	
6	Onnur roð til hægri	

## Upplýsingar \_

- Ef hofuðpuði i okutæki kemur i veg fyrir retta uppsetningu aðhaldsbunaðar fyrir born skal endurstilla hofuðpuða þess sætis eða fjarlægja hann alveg.
- Setjið aldrei afturvisandi barnabilstol i farþegasætið fram i, nema slokkt se a loftpuðanum.

## Raðlagðir barnabilstolar (fyrir Evropu)

Hopflokkur	Nafn	Framleiðandi	Tegund festingar	Samþykkisnumer ECE
Flokkur 0+	BABY-SAFE 2 i-SIZE og BABY-SAFE i-SIZE BASE	Britax Romer	ISOFIX með stoðfæti, snyr aftur	R129/00 - E1 - 000008
Flokkur 1	Trifix2 i-Size	Britax Romer	ISOFIX og yfirreim	129R-010015

Hopflokkur	Nafn	Framleiðandi	Tegund festingar	Samþykkisnumer ECE
Flokkur 2	KidFix II R	Britax Romer	ISOFIX og belti okutækis sem notar mjaðmarbeltisstyringu aðhaldsbunaðar fyrir bornbelt guide	R44/04 - E1 - 04301304
Flokkur 3	viaggio 2-3 skutla	Peg Perego	ISOFIX og belti okutækis	ECE R44/04 - E24 - 0000256

Upplysingar um framleiðanda bilstola Britax Romer http://www.britax.com

Peg Perego: http://www.pegperego.com/

# 11. Index

#### Α

- About "Getting started with your electric vehicle" About "Getting started with your electric vehicle"
- · Accessing your vehicle Accessing your vehicle
  - Immobilizer system Immobilizer system
  - Smart key Smart key
- Active air flap Active air flap
  - Malfunction Malfunction
- Advanced Rear Occupant Alert (ROA) Advanced Rear Occupant Alert (ROA)
  - Declaration of Conformity Declaration of Conformity
  - System operation System operation
  - System precautions System precautions
  - System setting System setting
- Air conditioner compressor label Air conditioner compressor label
- · Air conditioning system Air conditioning system
- · Air ventilation seats Air ventilation seats
- · Airbag supplemental restraint system Airbag supplemental restraint system
  - Additional safety precautions Additional safety precautions
  - Airbag warning labels Airbag warning labels
  - Do not install a Child Restraint System on the front passenger's seat Do not install a Child Restraint System on the front passenger's seat
  - How does the airbags system operate? How does the airbags system operate?
  - SRS care SRS care
  - SRS Components SRS Components
  - SRS warning light SRS warning light
  - What to expect after an airbag inflates What to expect after an airbag inflates
  - Where are the airbags? Where are the airbags?
  - Why didn't my airbag go off in a collision? Why didn't my airbag go off in a collision?
- ALL Wheel Drive (AWD) ALL Wheel Drive (AWD)
- ALL Wheel Drive (AWD)) ALL Wheel Drive (AWD))
  - Emergency precautions Emergency precautions
- Appearance care Appearance care
  - Exterior care Exterior care
  - Interior care Interior care
- · Appendix Appendix
- · Automatic climate control system Automatic climate control system
  - Automatic heating and air conditioning Automatic heating and air conditioning
  - Climate Climate

- Manual heating and air conditioning Manual heating and air conditioning
- System maintenance System maintenance
- System operation System operation
- · Aux. Battery Saver+ Aux. Battery Saver+

B

- Barnaöryggisbúnaður (CRS) Barnaöryggisbúnaður (CRS)
- Battery (12 V) Battery (12 V)
  - Battery capacity label Battery capacity label
  - Battery recharging Battery recharging
  - For best battery service For best battery service
  - Reset items Reset items
- Before driving Before driving
  - Before entering the vehicle Before entering the vehicle
  - Before starting Before starting
- Blind-Spot Collision-Avoidance Assist (BCA) Blind-Spot Collision-Avoidance Assist (BCA)
  - Blind-Spot Collision-Avoidance Assist malfunction and limitations Blind-Spot Collision-Avoidance Assist malfunction and limitations
  - Blind-Spot Collision-Avoidance Assist operation Blind-Spot Collision-Avoidance Assist operation
  - Blind-Spot Collision-Avoidance Assist settings Blind-Spot Collision-Avoidance Assist settings
- Blind-Spot View Monitor (BVM) Blind-Spot View Monitor (BVM)
  - Blind-Spot View Monitor malfunction Blind-Spot View Monitor malfunction
  - Blind-Spot View Monitor operation Blind-Spot View Monitor operation
  - Blind-Spot View Monitor settings Blind-Spot View Monitor settings
- · Brake fluid Brake fluid
  - Checking the brake fluid level Checking the brake fluid level
- · Braking system Braking system
  - Anti-lock Brake System (ABS) Anti-lock Brake System (ABS)
  - Auto hold Auto hold
  - Brake Assistant System (BAS) Brake Assistant System (BAS)
  - Brake Disc Cleaning Brake Disc Cleaning
  - Disc brakes wear indicator Disc brakes wear indicator
  - Electronic parking brake (EPB) Electronic parking brake (EPB)
  - Electronic Stability Control (ESC) Electronic Stability Control (ESC)
  - Emergency Stop Signal (ESS) Emergency Stop Signal (ESS)
  - Good braking practices Good braking practices
  - High performance brake High performance brake
  - Hill-start Assist Control (HAC) Hill-start Assist Control (HAC)

- Multi-Collision Brake (MCB) Multi-Collision Brake (MCB)
- Power-assist brakes Power-assist brakes
- Vehicle Stability Management (VSM) Vehicle Stability Management (VSM)
- · Bulb wattage Bulb wattage

C

- · Cabin air filter Cabin air filter
  - Filter inspection Filter inspection
  - Filter replacement Filter replacement
- Center console overview Center console overview
- Charging your electric vehicle Charging your electric vehicle
  - Checking basic information on charging your electric vehicle Checking basic information on charging your electric vehicle
  - Safety precautions for charging your electric vehicle Safety precautions for charging your electric vehicle
  - Stopping charging immediately Stopping charging immediately
  - Using a DC Charger Using a DC Charger
  - Using a portable charger (ICCB) Using a portable charger (ICCB)
  - Using an AC charger Using an AC charger
- Child Restraint System (CRS) Child Restraint System (CRS)
  - Installing a Child Restraint System Installing a Child Restraint System
  - Our recommendation Our recommendation
  - Selecting a Child Restraint System (CRS) Selecting a Child Restraint System (CRS)
- · Climate control additional features Climate control additional features
  - Air conditioner auto-drying Air conditioner auto-drying
  - Auto defogging system Auto defogging system
  - Auto dehumidify Auto dehumidify
  - Recirculating air when entering a tunnel Recirculating air when entering a tunnel
  - Recirculating air when washer fluid is used Recirculating air when washer fluid is used
- Cluster display Cluster display
  - Cluster display control Cluster display control
  - View modes View modes
- · Coolant Coolant
  - Changing coolant Changing coolant
- Countermeasures for accidents or fire Countermeasures for accidents or fire
  - If the electric vehicle catches fire If the electric vehicle catches fire
  - If the electric vehicle is submerged If the electric vehicle is submerged
  - If the electric vehicle needs towing If the electric vehicle needs towing
  - Other precautions for electric vehicle accidents Other precautions for electric vehicle accidents

- Cruise Control (CC) Cruise Control (CC)
  - Cruise Control operation Cruise Control operation

D

- Declaration of conformity Declaration of conformity
  - Front corner radar / Rear corner radar Front corner radar / Rear corner radar
  - Front radar Front radar
- · Dimensions Dimensions
- · Door locks Door locks
  - Auto Door Lock/Unlock features Auto Door Lock/Unlock features
  - Child-protector rear door locks Child-protector rear door locks
  - Deadlocks Deadlocks
  - Electronic child safety lock Electronic child safety lock
  - Operating door locks from outside the vehicle Operating door locks from outside the vehicle
  - Operating door unlocks from inside the vehicle Operating door unlocks from inside the vehicle
  - Operating door unlocks from outside the vehicle Operating door unlocks from outside the vehicle
- Drive mode integrated control system Drive mode integrated control system
  - Drive mode Drive mode
  - Drive mode characteristic Drive mode characteristic
- Driver assistance system notice Driver assistance system notice
- Driver Attention Warning (DAW) Driver Attention Warning (DAW)
  - Driver Attention Warning malfunction and limitations Driver Attention Warning malfunction and limitations
  - Driver Attention Warning operation Driver Attention Warning operation
  - Driver Attention Warning settings Driver Attention Warning settings
- Driving your electric vehicle Driving your electric vehicle
  - Checking electric vehicle driving information Checking electric vehicle driving information
  - Starting and stopping the vehicle Starting and stopping the vehicle

Ε

- Electric charging door Electric charging door
- Electric vehicle specifications Electric vehicle specifications
- Electronic Limited Slip Differential Electronic Limited Slip Differential
  - Warning messages Warning messages
- Emergency commodity Emergency commodity
  - Fire extinguisher Fire extinguisher
  - First aid kit First aid kit
  - Tire pressure gauge Tire pressure gauge
  - Triangle reflector Triangle reflector

- Explanation of scheduled maintenance items Explanation of scheduled maintenance items
  - Air conditioning refrigerant Air conditioning refrigerant
  - Brake discs, pads, calipers and rotors Brake discs, pads, calipers and rotors
  - Brake fluid Brake fluid
  - Brake hoses and lines Brake hoses and lines
  - Coolant Coolant
  - Cooling system Cooling system
  - Drive shafts and boots Drive shafts and boots
  - Reduction gear fluid Reduction gear fluid
  - Steering gear box, linkage & boots/lower arm ball joint Steering gear box, linkage & boots/lower arm ball joint
  - Suspension mounting bolts Suspension mounting bolts
- · Exterior lights Exterior lights
  - Battery saver function Battery saver function
  - Daytime Running Light (DRL) Daytime Running Light (DRL)
  - Headlight delay function Headlight delay function
  - Headlight leveling device Headlight leveling device
  - High beam operation High beam operation
  - Interior button lighting Interior button lighting
  - Lighting control Lighting control
  - Rear fog light Rear fog light
  - Turn signals and lane change signals Turn signals and lane change signals
- Exterior overview (Front view) Exterior overview (Front view)
- Exterior overview (Rear view) Exterior overview (Rear view)

F

- Forward Collision-Avoidance Assist (FCA) Forward Collision-Avoidance Assist (FCA)
  - Forward Collision-Avoidance Assist malfunction and limitations Forward Collision-Avoidance Assist malfunction and limitations
  - Forward Collision-Avoidance Assist operation Forward Collision-Avoidance Assist operation
  - Forward Collision-Avoidance Assist settings Forward Collision-Avoidance Assist settings
- Forward/Reverse Parking Distance Warning (PDW) Forward/Reverse Parking Distance Warning (PDW)
  - Forward/Reverse Parking Distance Warning malfunction and limitations Forward/ Reverse Parking Distance Warning malfunction and limitations
  - Forward/Reverse Parking Distance Warning operation Forward/Reverse Parking Distance Warning operation
  - Forward/Reverse Parking Distance Warning settings Forward/Reverse Parking Distance Warning settings

- Forward/Side/Reverse Parking Collision-Avoidance Assist (PCA) Forward/Side/Reverse Parking Collision-Avoidance Assist (PCA)
  - Parking Collision-Avoidance Assist malfunction and limitations Parking Collision-Avoidance Assist malfunction and limitations
  - Parking Collision-Avoidance Assist operation Parking Collision-Avoidance Assist operation
  - Parking Collision-Avoidance Assist settings Parking Collision-Avoidance Assist settings
- Forward/Side/Reverse Parking Distance Warning (PDW) Forward/Side/Reverse Parking Distance Warning (PDW)
  - Forward/Side/Reverse Parking Distance Warning malfunction and limitations
     Forward/Side/Reverse Parking Distance Warning malfunction and limitations
  - Forward/Side/Reverse Parking Distance Warning Operation Forward/Side/Reverse Parking Distance Warning Operation
  - Forward/Side/Reverse Parking Distance Warning Settings Forward/Side/Reverse Parking Distance Warning Settings
- · Fuses Fuses
  - Fuse/relay panel description Fuse/relay panel description
  - Instrument panel fuse replacement Instrument panel fuse replacement
  - Motor compartment panel fuse replacement Motor compartment panel fuse replacement

#### Н

- Hazard warning flasher Hazard warning flasher
- Head-up display (HUD) Head-up display (HUD)
  - Head-up display information Head-up display information
  - Head-up display settings Head-up display settings
  - Precautions while using the head-up display Precautions while using the head-up display
- High Beam Assist (HBA) High Beam Assist (HBA)
  - High Beam Assist malfunction and limitations High Beam Assist malfunction and limitations
  - High Beam Assist operation High Beam Assist operation
  - High Beam Assist settings High Beam Assist settings
- Highway Driving Assist (HDA) Highway Driving Assist (HDA)
  - Highway Driving Assist malfunction and limitations Highway Driving Assist malfunction and limitations
  - Highway Driving Assist operation Highway Driving Assist operation
  - Highway Driving Assist settings Highway Driving Assist settings
- · Hood Hood
  - Closing the hood Closing the hood
  - Opening the hood Opening the hood
- Hyundai Digital Key Hyundai Digital Key

- Digital key (Card key) Digital key (Card key)
- Digital key (smartphone) Digital key (smartphone)
- Limitations of the system Limitations of the system
- Used vehicle/Digital key maintenance Used vehicle/Digital key maintenance
- If the vehicle does not start If the vehicle does not start
  - Confirm the EV battery is not low on the charge gauge Confirm the EV battery is not low on the charge gauge
- If you have a flat tire (with Tire Mobility Kit) If you have a flat tire (with Tire Mobility Kit)
  - Components of the Tire Mobility Kit Components of the Tire Mobility Kit
  - How to adjust tire pressure How to adjust tire pressure
  - Introduction Introduction
  - Notes on the safe use of the Tire Mobility Kit Notes on the safe use of the Tire Mobility Kit
  - Using the Tire Mobility Kit When a tire is flat Using the Tire Mobility Kit When a tire is flat
- Important safety precautions Important safety precautions
  - Airbag hazards Airbag hazards
  - Always wear your seat belt Always wear your seat belt
  - Control your speed Control your speed
  - Driver distraction Driver distraction
  - Keep your vehicle in safe condition Keep your vehicle in safe condition
  - Never drink or take drugs and drive Never drink or take drugs and drive
  - Restrain all children Restrain all children
- IMPORTER & DISTRIBUTOR INFORMATION FOR EU BATTERY REGULATION (EU 2023/1542) IMPORTER & DISTRIBUTOR INFORMATION FOR EU BATTERY REGULATION (EU 2023/1542)
- Importer information (for Europe) Importer information (for Europe)
- In case of an emergency while driving In case of an emergency while driving
  - If the vehicle stalls at a crossroad or crossing If the vehicle stalls at a crossroad or crossing
  - If the vehicle stalls while driving If the vehicle stalls while driving
  - If you have a flat tire while driving If you have a flat tire while driving
- · Infotainment system Infotainment system
  - Antenna Antenna
  - Bluetooth® wireless technology Bluetooth® wireless technology
  - Infotainment system Infotainment system
  - Steering wheel remote controls Steering wheel remote controls
  - USB Port USB Port
  - Voice recognition Voice recognition
- · Instrument cluster Instrument cluster

- Cluster display messages Cluster display messages
- Gauges and meters Gauges and meters
- Instrument cluster control Instrument cluster control
- Reduction gear shift indicator Reduction gear shift indicator
- Warning and indicator lights Warning and indicator lights
- Intelligent Speed Limit Assist (ISLA) Intelligent Speed Limit Assist (ISLA)
  - Intelligent Speed Limit Assist malfunction and limitations Intelligent Speed Limit Assist malfunction and limitations
  - Intelligent Speed Limit Assist settings Intelligent Speed Limit Assist settings
- · Interior features Interior features
  - Cargo net holder Cargo net holder
  - Cargo security screen Cargo security screen
  - Clock Clock
  - Cluster fascia side panel Cluster fascia side panel
  - Coat hook Coat hook
  - Cup holder Cup holder
  - Floor mat anchor(s) Floor mat anchor(s)
  - Power outlet Power outlet
  - Rear side window sunshades Rear side window sunshades
  - Sunvisor Sunvisor
  - USB charger USB charger
  - Vehicle to load (V2L) Vehicle to load (V2L)
  - Wireless smartphone charging system Wireless smartphone charging system
- · Interior lights Interior lights
  - Ambient light Ambient light
  - Cargo area lamp Cargo area lamp
  - Front lights Front lights
  - Glove box lamp Glove box lamp
  - Interior lamp Auto off Interior lamp Auto off
  - Rear lamps Rear lamps
  - Vanity mirror lamp Vanity mirror lamp
- · Interior overview Interior overview

J

Jump starting (12 V battery) Jump starting (12 V battery)

• Lane Following Assist (LFA) Lane Following Assist (LFA)

- Lane Following Assist malfunction and limitations Lane Following Assist malfunction and limitations
- Lane Following Assist operation Lane Following Assist operation
- Lane Following Assist settings Lane Following Assist settings

- Lane Keeping Assist (LKA) Lane Keeping Assist (LKA)
  - Lane Keeping Assist malfunction and limitations Lane Keeping Assist malfunction and limitations
  - Lane Keeping Assist operation Lane Keeping Assist operation
  - Lane Keeping Assist settings Lane Keeping Assist settings
- · Light bulbs Light bulbs
  - Headlight aiming (For Europe) Headlight aiming (For Europe)
  - Headlight, position light, turn signal light, daytime running light (DRL) replacement
     Headlight, position light, turn signal light, daytime running light (DRL) replacement
  - High mounted stop light replacement High mounted stop light replacement
  - Interior light replacement Interior light replacement
  - License plate light replacement License plate light replacement
  - Rear combination light replacement Rear combination light replacement
  - Side repeater light replacement Side repeater light replacement
- · Load and speed capacity tires Load and speed capacity tires

#### M

- Maintenance services Maintenance services
  - Owner maintenance precautions Owner maintenance precautions
  - Owner's responsibility Owner's responsibility
- Manual Speed Limit Assist (MSLA) Manual Speed Limit Assist (MSLA)
  - Manual Speed Limit Assist operation Manual Speed Limit Assist operation
- · Mirrors Mirrors
  - Inside rearview mirror Inside rearview mirror
  - Side view mirrors Side view mirrors
- · Motor compartment Motor compartment
- · Motor compartment overview Motor compartment overview
- · Motor number Motor number

#### Ν

- N Brake regen N Brake regen
  - N Brake regen limitations N Brake regen limitations
  - N Brake Regen Optimization Mode N Brake Regen Optimization Mode
  - One Pedal Driving One Pedal Driving
  - Using i-PEDAL Using i-PEDAL
  - Using N Brake regen Using N Brake regen
- · N Button N Button
- N Mode N Mode
  - Electronic Controlled Suspension (ECS) Electronic Controlled Suspension (ECS)
  - Left Foot Braking Left Foot Braking
  - N Active Sound+ N Active Sound+
  - N Battery Preconditioning N Battery Preconditioning

- N Drift Optimizer N Drift Optimizer
- N e-Shift N e-Shift
- N Grin Boost N Grin Boost
- N Launch Control N Launch Control
- N Pedal N Pedal
- N Race N Race
- N Road Sense N Road Sense
- N Torque Distribution N Torque Distribution
- Performance Option Settings Performance Option Settings
- Track SOC Track SOC
- Navigation-based Smart Cruise Control (NSCC) Navigation-based Smart Cruise Control (NSCC)
  - Limitations of Navigation-based Smart Cruise Control Limitations of Navigationbased Smart Cruise Control
  - Navigation-based Smart Cruise Control operation Navigation-based Smart Cruise Control operation
  - Navigation-based Smart Cruise Control settings Navigation-based Smart Cruise Control settings

0

- Open source software notice Open source software notice
- · Owner maintenance Owner maintenance
  - Owner maintenance schedule Owner maintenance schedule

Ρ

- Pan-European eCall System (for Europe) Pan-European eCall System (for Europe)
  - Information on data processing (for Europe) Information on data processing (for Europe)
  - Pan-European eCall System (for Europe) Pan-European eCall System (for Europe)
- Power tailgate Power tailgate
  - Emergency tailgate safety release Emergency tailgate safety release
  - Operating the power tailgate Operating the power tailgate
  - Power tailgate operating conditions Power tailgate operating conditions
  - Resetting the power tailgate Resetting the power tailgate
  - Setting the power tailgate Setting the power tailgate

R

- Rear Cross-Traffic Collision-Avoidance Assist (RCCA) Rear Cross-Traffic Collision-Avoidance Assist (RCCA)
  - Rear Cross-Traffic Collision-Avoidance Assist malfunction and limitations Rear Cross-Traffic Collision-Avoidance Assist malfunction and limitations
  - Rear Cross-Traffic Collision-Avoidance Assist operation Rear Cross-Traffic Collision-Avoidance Assist operation
  - Rear Cross-Traffic Collision-Avoidance Assist settings Rear Cross-Traffic Collision-Avoidance Assist settings

- Rear View Monitor (RVM) Rear View Monitor (RVM)
  - Rear View Monitor malfunction and limitations Rear View Monitor malfunction and limitations
  - Rear View Monitor operation Rear View Monitor operation
  - Rear View Monitor settings Rear View Monitor settings
- Recommended lubricants and capacities Recommended lubricants and capacities
- · Reduction gear Reduction gear
  - Cluster display messages Cluster display messages
  - Good driving practices Good driving practices
  - Reduction gear operation Reduction gear operation
- · Reduction gear fluid Reduction gear fluid
- Remote Smart Parking Assist 2 (RSPA 2) Remote Smart Parking Assist 2 (RSPA 2)
  - Remote Smart Parking Assist malfunction and limitations Remote Smart Parking Assist malfunction and limitations
  - Remote Smart Parking Assist operation Remote Smart Parking Assist operation
  - Remote Smart Parking Assist settings Remote Smart Parking Assist settings
- Reverse Parking Collision-Avoidance Assist (PCA) Reverse Parking Collision-Avoidance Assist (PCA)
  - Reverse Parking Collision-Avoidance Assist malfunction and limitations Reverse Parking Collision-Avoidance Assist malfunction and limitations
  - Reverse Parking Collision-Avoidance Assist operation Reverse Parking Collision-Avoidance Assist operation
  - Reverse Parking Collision-Avoidance Assist settings Reverse Parking Collision-Avoidance Assist settings

S

- Safe Exit Assist (SEA) Safe Exit Assist (SEA)
  - Safe Exit Assist malfunction and limitations Safe Exit Assist malfunction and limitations
  - Safe Exit Assist operation Safe Exit Assist operation
  - Safe Exit Assist settings Safe Exit Assist settings
- Safe Exit Warning (SEW) Safe Exit Warning (SEW)
  - Safe Exit Warning malfunction and limitations Safe Exit Warning malfunction and limitations
  - Safe Exit Warning operation Safe Exit Warning operation
  - Safe Exit Warning settings Safe Exit Warning settings
- Scheduled maintenance services Scheduled maintenance services
  - Maintenance under severe usage conditions Maintenance under severe usage conditions
  - Normal maintenance schedule Normal maintenance schedule
- · Seat belts Seat belts
  - Additional seat belt safety precautions Additional seat belt safety precautions

- Care of seat belts Care of seat belts
- Seat belt restraint system Seat belt restraint system
- Seat belt safety precautions Seat belt safety precautions
- Seat belt warning light Seat belt warning light
- · Seats Seats
  - Front seats Front seats
  - Headrest Headrest
  - Rear seats Rear seats
  - Safety precautions Safety precautions
- · Seats warmers Seats warmers
- Smart Cruise Control (SCC) Smart Cruise Control (SCC)
  - Smart Cruise Control malfunction and limitations Smart Cruise Control malfunction and limitations
  - Smart Cruise Control operation Smart Cruise Control operation
  - Smart Cruise Control settings Smart Cruise Control settings
- Smart regeneration system Smart regeneration system
  - Front sensors (Front radar) Front sensors (Front radar)
  - Pausing smart regeneration system Pausing smart regeneration system
  - Smart regeneration level settings Smart regeneration level settings
  - Smart regeneration system on/off Smart regeneration system on/off
  - Smart regeneration system operating condition Smart regeneration system operating condition
  - Smart regeneration system precautions Smart regeneration system precautions
  - System warning due to sensor problems System warning due to sensor problems
- · Smart tailgate Smart tailgate
  - Deactivating smart tailgate Deactivating smart tailgate
  - Detecting area Detecting area
  - Using smart tailgate Using smart tailgate
- Special driving conditions Special driving conditions
  - Driving at night Driving at night
  - Driving in flooded areas Driving in flooded areas
  - Driving in the rain Driving in the rain
  - Hazardous driving conditions Hazardous driving conditions
  - Highway driving Highway driving
  - Reducing the risk of rollover Reducing the risk of rollover
  - Rocking the vehicle Rocking the vehicle
  - Smooth cornering Smooth cornering
- Start/Stop button Start/Stop button
  - Remote start Remote start
  - Start/Stop button position Start/Stop button position

- Starting the vehicle Starting the vehicle
- Turning off the vehicle Turning off the vehicle
- · Steering wheel Steering wheel
  - Horn Horn
  - Motor Driven Power Steering (MDPS) Motor Driven Power Steering (MDPS)
  - Steering wheel heater Steering wheel heater
  - Tilt/Telescopic steering Tilt/Telescopic steering
- · Steering wheel control overview Steering wheel control overview
- Storage compartment Storage compartment
  - Center console storage Center console storage
  - Glove box Glove box
  - Sliding armrest Sliding armrest
- Surround View Monitor (SVM) Surround View Monitor (SVM)
  - Surround View Monitor malfunction and limitations Surround View Monitor malfunction and limitations
  - Surround View Monitor operation Surround View Monitor operation
  - Surround View Monitor settings Surround View Monitor settings

Т

- Theft-alarm system Theft-alarm system
- Tire pressure monitoring system (TPMS) Tire pressure monitoring system (TPMS)
  - Changing a tire with TPMS Changing a tire with TPMS
  - Check tire pressure Check tire pressure
  - Low tire pressure indicator Low tire pressure indicator
  - Low tire pressure position and tire pressure telltale Low tire pressure position and tire pressure telltale
  - Tire pressure monitoring system Tire pressure monitoring system
  - TPMS malfunction indicator TPMS malfunction indicator
- Tire specification and pressure label Tire specification and pressure label
- Tires and wheels Tires and wheels
  - Check tire inflation pressure Check tire inflation pressure
  - Low aspect ratio tires Low aspect ratio tires
  - Recommended cold tire inflation pressures Recommended cold tire inflation pressures
  - Tire care Tire care
  - Tire maintenance Tire maintenance
  - Tire replacement Tire replacement
  - Tire rotation Tire rotation
  - Tire sidewall labeling Tire sidewall labeling
  - Tire traction Tire traction
  - Wheel alignment and tire balance Wheel alignment and tire balance

- Wheel replacement Wheel replacement
- · Towing Towing
  - Removable towing hook Removable towing hook
  - Towing service Towing service

U

- UAE eCall System (For UAE) UAE eCall System (For UAE)
  - eCall certification label eCall certification label
  - Information on data processing (For UAE) Information on data processing (For UAE)
  - UAE eCall System (For UAE) UAE eCall System (For UAE)
- Understanding your electric vehicle Understanding your electric vehicle
  - Characteristics of your electric vehicle Characteristics of your electric vehicle
  - Other precautions for electric vehicle management Other precautions for electric vehicle management
  - Precautions when using the high voltage battery Precautions when using the high voltage battery
- Using Electric Vehicle functions Using Electric Vehicle functions
  - Checking energy information Checking energy information
  - Checking the Electric Vehicle screen configuration Checking the Electric Vehicle screen configuration
  - Setting a battery discharging limit when using Vehicle to Load (V2L) Setting a battery discharging limit when using Vehicle to Load (V2L)
  - Setting electric vehicle specialized functions Setting electric vehicle specialized functions
  - Setting the next departure time Setting the next departure time
  - Setting the options for the AC charger Setting the options for the AC charger
  - Setting the target battery charge level Setting the target battery charge level
- Using V2L function Using V2L function
  - Safety precautions when using the V2L function Safety precautions when using the V2L function
  - Solving V2L problems Solving V2L problems
  - Using electricity inside the vehicle Using electricity inside the vehicle
  - Using electricity outside the vehicle Using electricity outside the vehicle

V

- Vehicle certification label Vehicle certification label
- Vehicle data collection and event data recorders Vehicle data collection and event data recorders
- Vehicle Identification Number (VIN) Vehicle Identification Number (VIN)
- Vehicle settings (infotainment system) Vehicle settings (infotainment system)
  - Setting your vehicle Setting your vehicle
- Vehicle system OTA update Vehicle system OTA update
  - Approving software update Approving software update

- Downloading software Downloading software
- Preparing software update Preparing software update
- Updating software Updating software
- · Vehicle weight Vehicle weight
  - Overloading Overloading
- · Vehicle weight and luggage volume Vehicle weight and luggage volume
- · Vetrarakstur Vetrarakstur
  - Snjor eða halka Snjor eða halka
- · Vision roof Vision roof
  - Resetting the vision roof Resetting the vision roof

#### W

- Washer fluid Washer fluid
  - Checking the washer fluid level Checking the washer fluid level
- · Windows Windows
  - Power windows Power windows
- Windshield defrosting (Heater) Windshield defrosting (Heater)
  - Rear window defroster Rear window defroster
- · Windshield defrosting and defogging Windshield defrosting and defogging
  - Automatic climate control system Automatic climate control system
  - Defogging logic Defogging logic
- · Winter driving Winter driving
  - Snow or icy conditions Snow or icy conditions
  - Winter precautions Winter precautions
- · Wiper blades Wiper blades
  - Blade inspection Blade inspection
  - Blade replacement Blade replacement
- · Wipers and washers Wipers and washers
  - Front windshield washers Front windshield washers
  - Front windshield wipers Front windshield wipers
  - Rear windshield washers Rear windshield washers
  - Rear windshield wipers and washers Rear windshield wipers and washers