# HYUNDAI

# OWNER'S MANUAL

Operation Maintenance Specifications

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

This manual applies to all HYUNDAI models and includes descriptions and explanations of optional as well as standard equipment. As a result, you may find material in this manual that does not apply to your specific vehicle.

# CAUTION: MODIFICATIONS TO YOUR HYUNDAI

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

# TWO-WAY RADIO OR CELLULAR TELEPHONE INSTALLATION

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

# SAFETY AND VEHICLE DAMAGE WARNING

This manual includes information titled as DAN-GER, WARNING, CAUTION and NOTICE.

These titles indicate the following:

#### **A** DANGER

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

#### **A** WARNING

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

## **A** CAUTION

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

#### NOTICE

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

#### HYUNDAI VEHICLE OWNER PRIVACY POLICY

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

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

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

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

Hyundai's Customer Connect Center representatives are available Monday through Friday, between the hours of 5:00 AM and 7:00 PM PST and Saturday and Sunday between 6:30 AM and 3:00 PM PST (English).

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

#### INTRODUCTION

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

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

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

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

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

### **HYUNDAI MOTOR AMERICA**

# **A** CAUTION

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

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#### **GUIDE TO HYUNDAI GENUINE PARTS**

# 1. What are HYUNDAI Genuine Parts?

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



# 2. Why should you use genuine parts?

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

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

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

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

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

HYUNDAI Genuine Parts are only sold through authorized HYUNDAI Dealerships.







#### HOW TO USE THIS MANUAL

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

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

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

#### **SAFETY MESSAGES**

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

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

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

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



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

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

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

# **FUEL REQUIREMENTS**

Your new vehicle is designed to obtain maximum performance with UNLEADED FUEL, as well as minimize exhaust emissions and spark plug fouling.

Your new vehicle is designed to use only unleaded fuel having an octane number ((R+M)/2) of 87 (Research Octane Number 91) or higher. (Do not use methanol blended fuels)

#### NOTICE

To prevent damage to the engine and engine components, never add any fuel system cleaning agents to the fuel tank other than what has been specified.

Consult an authorized HYUNDAI dealer for additional information.

## **A** WARNING

- Do not "top off" after the nozzle automatically shuts off when refueling.
- Always check that the fuel cap is installed securely to prevent fuel spillage in the event of an accident.

# Gasoline containing alcohol or methanol

Gasohol, a mixture of gasoline and ethanol (also known as grain alcohol) are being marketed along with or instead of leaded or unleaded gasoline.

Do not use gasohol containing more than 15% ethanol, and do not use gasoline or gasohol containing any methanol. Either of these fuels may cause drivability problems and damage to the fuel system, engine control system and emission control system.

Discontinue using gasohol of any kind if drivability problems occur.

"E85" fuel is an alternative fuel comprised of 85 percent ethanol and 15 percent gasoline, and is manufactured exclusively for use in Flexible Fuel Vehicles. "E85" is not compatible with your vehicle. Use of "E85" may result in poor engine performance and damage to your vehicle's engine and fuel system. HYUNDAI recommends that customers do not use fuel with an ethanol content exceeding 15 percent.

#### NOTICE

To prevent damage to your vehicle's engine and fuel system:

- Never use gasohol which contains methanol.
- Never use gasohol containing more than 15% ethanol.
- Never use leaded fuel or leaded gasohol.
- Never use "E85" fuel.

Your New Vehicle Limited Warranty does not cover damage to the fuel system or any performance problems caused by the use of "E85" fuel.

#### Other fuels

Using fuels such as;

- Silicone (Si) contained fuel,
- Ferrocene (Fe) contained fuel, and
- Other metallic additives contained fuels,

may cause damage to the engine by plugging, misfiring, poor acceleration, engine stalling, catalyst melting, abnormal corrosion, life cycle reduction.

- The Malfunction Indicator Lamp (MIL) may illuminate.

## NOTICE

Damage to the fuel system or performance problem caused by the use of these fuels may not be covered by your New Vehicle Limited Warranty.

### Gasoline containing MMT

Some gasoline contains harmful manganese-based fuel additives such as MMT (Methylcyclopentadienyl Manganese Tricarbonyl).

HYUNDAI does not recommend the use of gasoline containing MMT.

This type of fuel can reduce vehicle performance and affect your emission control system.

The malfunction indicator lamp on the cluster may come on.

#### Fuel Additives

HYUNDAI recommends that you use good quality gasolines treated with detergent additives such as TOP TIER Detergent Gasoline, which help prevent deposit formation in the engine. These gasolines will help the engine run cleaner and enhance performance of the Emission Control System. For more information on TOP TIER Detergent Gasoline, please go to the website (www.toptiergas.com).

For customers who do not use TOP Tier Detergent Gasoline regularly, and have problems starting or the engine does not run smoothly, additives that you can buy separately may be added to the gasoline. If TOP TIER Detergent Gasoline is not available, one bottle of additive added to the fuel tank at every 7,500 miles or 12 months is recommended.

Additives are available from your authorized HYUNDAI dealer along with information on how to use them. Do not mix other additives.

### Operation in foreign countries

If you are going to drive your vehicle in another country, be sure to:

- Observe all regulations regarding registration and insurance.
- Determine that acceptable fuel is available.

#### **VEHICLE BREAK-IN PROCESS**

No special break-in period is needed. By following a few simple precautions for the first 600 miles (1,000 km) you may add to the performance, economy and life of your vehicle.

- Do not race the engine.
- While driving, keep your engine speed (rpm, or revolutions per minute) between 2,000 rpm and 4,000 rpm.
- Do not maintain a single speed for long periods of time, either fast or slow. Varying engine speed is needed to properly break-in the engine.
- Avoid hard stops, except in emergencies, to allow the brakes to seat properly.

## **A** WARNING

# CALIFORNIA PROPOSITION 65 WARNING

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

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

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

#### VEHICLE DATA COLLECTION AND EVENT DATA RECORDERS

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

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

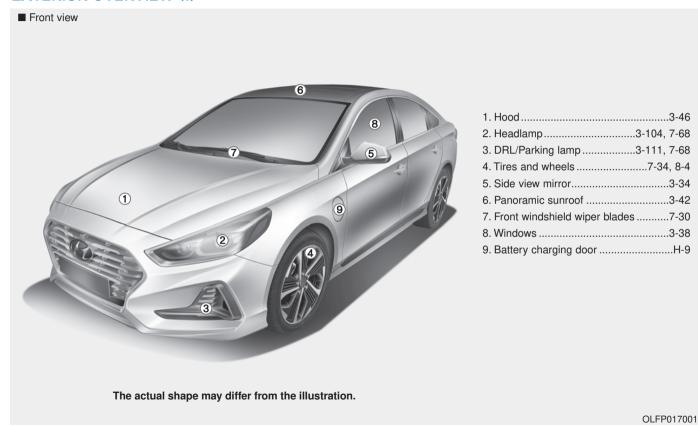
These data can help provide a better understanding of the circumstances in which crashes and injuries occur. NOTE: EDR data are recorded by your vehicle only if a non-trivial crash situation occurs: no data are recorded by the EDR under normal driving conditions and no personal data (e.g., name, gender,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

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

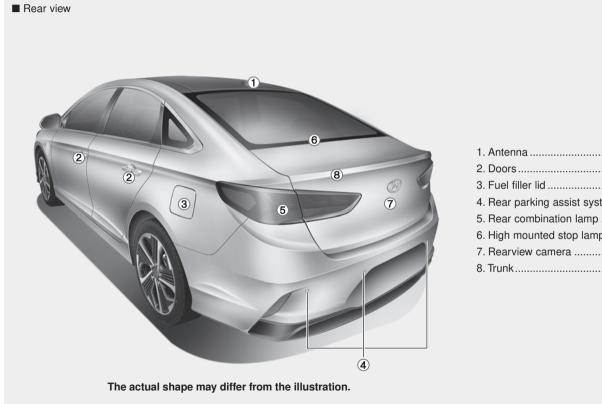
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# **EXTERIOR OVERVIEW (I)**



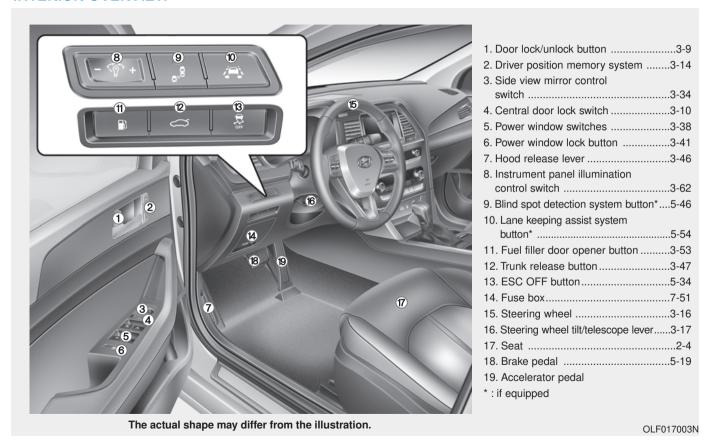
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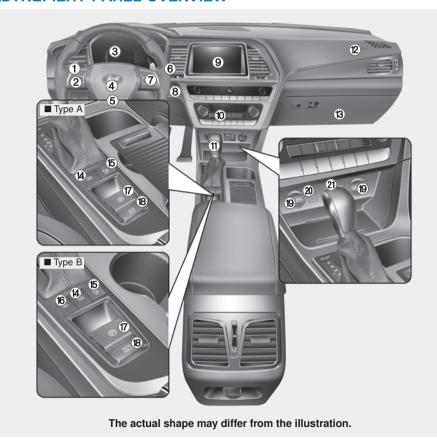
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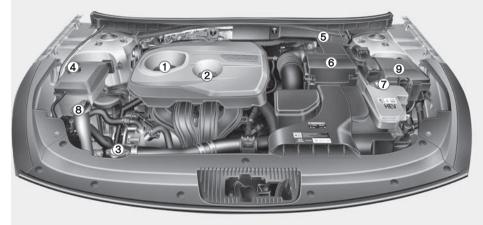
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The actual engine room in the vehicle may differ from the illustration.

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# Safety system of your vehicle

This chapter provides you with important information about how to protect yourself and your passengers. It explains how to properly use your seats and seat belts, and how your air bags work.

Additionally, this chapter explains how to properly restrain infants and children in your vehicle.

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#### **IMPORTANT SAFETY PRECAUTIONS**

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

## **Always Wear Your Seat Belt**

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

#### **Restrain All Children**

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

## **Air Bag Hazards**

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

#### **Driver Distraction**

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

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

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

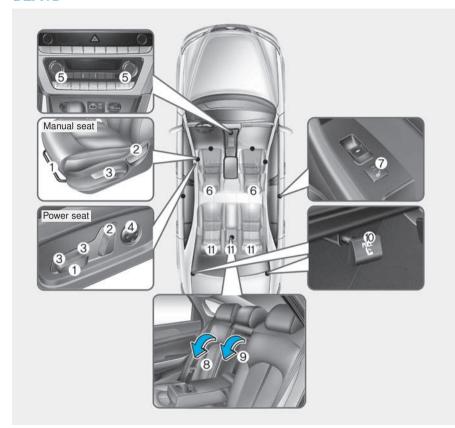
## **Control Your Speed**

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

# Keep Your Vehicle in Safe Condition

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

# **SEATS**



#### Front seats

- 1. Seat sliding forward or rearward adjustment
- 2. backseat angle adjustment
- 3. Seat cushion height adjustment
- 4. Lumbar support adjustment\*
- 5. Seat warmer/Air ventilation seat\*
- 6. Head restraint

#### Rear seats

- 7. Seat warmer\*
- 8. Armrest
- 9. Carrying long/narrow cargo\*
- 10. Seat folding lever\*
- 11. Head restraint
- \*: if equipped

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### **Safety Precautions**

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

## **A** WARNING

Do not use a cushion that reduces friction between the seat and the passenger. The passenger's hips may slide under the lap portion of the seat belt during an accident or a sudden stop. Serious or fatal internal injuries could result because the seat belt cannot operate properly.

### Air bags

You can take steps to reduce the risk of being injured by an inflating air bag. Sitting too close to an air bag greatly increases the risk of injury in the event the air bag inflates.

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

### **A WARNING**

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

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

#### Seat belts

Always fasten your seat belt before starting any trip.

At all times, passengers should sit upright and be properly restrained. Infants and small children must be restrained in appropriate child restraint systems. Children who have outgrown a booster seat and adults must be restrained using the seat belts.

## **A** WARNING

Take the following precautions when adjusting your seat belt:

- NEVER use one seat belt for more than one occupant.
- Always position the backseat upright with the lap portion of the seat belt snug and low across the hips.
- NEVER allow children or small infants to ride in 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**

### **A** WARNING

Take the following precautions when adjusting your seat:

- NEVER attempt to adjust the seat while the vehicle is moving. The seat could respond with unexpected movement and may cause loss of vehicle control resulting in an accident.
- Do not place anything under the front seats. Loose objects in the driver's foot area could interfere with the operation of the foot pedals, causing an accident.
- Do not allow anything to interfere with the normal position and proper locking of the backseat.
- Do not place a cigarette lighter on the floor or seat. When you operate the seat, gas may exit out of the lighter causing a fire.

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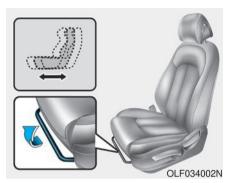
 Use extreme caution when picking up small objects trapped under the seats or between the seat and the center console. Your hands might be cut or injured by the edges of the seat mechanism.

# **A** CAUTION

#### To prevent injury:

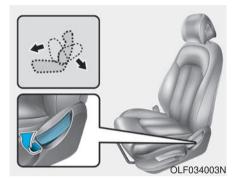
- Do not adjust your seat while wearing your seat belt. Moving the seat cushion forward may cause strong pressure on your abdomen.
- Do not allow your hands or fingers to get caught in the seat mechanisms while the seat is moving.

#### Manual adjustment



Forward and rearward adjustment
To move the seat forward or rearward:

- 1. Pull up the seat slide adjustment lever and hold it.
- 2. Slide the seat to the position you desire.
- 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.



**Backseat angle** 

To recline the backseat:

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

#### Reclining backseat

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

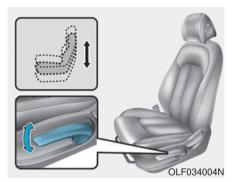
## **A** WARNING

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

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

Drivers and passengers should ALWAYS sit well back in their seats, properly belted, and with the backseats upright. Seat belts must be snug against your hips and chest to work properly. When the backseat is reclined, the shoulder belt is not as effective because it will not be snug against your chest. Instead, it will be in front of you. During an accident, you could be thrown into the seat belt, causing neck or other injuries.

The more the backseat 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 cushion 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.

### Power adjustment

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

## **A** WARNING

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

#### NOTICE

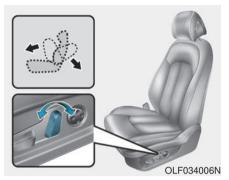
To prevent damage to the seats:

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



**Forward and rearward adjustment** To move the seat forward or rearward:

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



**Backseat angle** 

To recline the backseat:

- Push the control switch forward or rearward.
- 2. Release the switch once the backseat reaches the desired position.

#### Reclining backseat

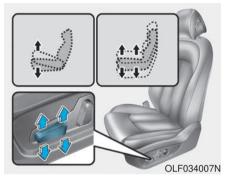
Sitting in a reclined position when the vehicle is in motion can be dangerous. Even when buckled up, the protections of your restraint system (seat belts and air bags) is greatly reduced by reclining your backseat.

## **A** WARNING

NEVER ride with a reclined backseat when the vehicle is moving. Riding with a reclined backseat 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 backseats upright. Seat belts must be snug against your hips and chest to work properly. When the backseat is reclined, the shoulder belt cannot do its job because it will not be snug against your chest. Instead, it will be in front of you. During an accident, you could be thrown into the seat belt, causing neck or other injuries.

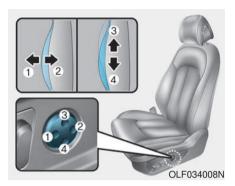
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Seat cushion height

To change the height of the seat cushion:

- Pull the front portion of the control switch up to raise or push down to lower the front part of the seat cushion. Pull the rear portion of the control switch up to raise or push down to lower the seat cushion.
- 2. Release the switch once the seat reaches the desired position.



# Lumbar support (for driver's seat, if equipped)

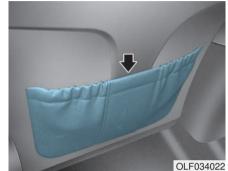
The lumbar support can be adjusted by pressing the lumbar support switch.

- Press the front portion of the switch (1) to increase support or the rear portion of the switch (2) to decrease support.
- Move the support position up and down by pressing the switch (3) or (4).

According to the equipped feature, the lumbar support does not operate up or down when the lumbar support is in the rearmost position.

In this case, to use the system, slightly increase support by pushing the front portion of the switch (1).

## Backseat pocket



The backseat pocket is provided on the back of the front backseats.

# **A WARNING**

To prevent the Occupant Classification System from malfunctioning:

Do not hang onto the front passenger seat while the vehicle is operating.

# **A** CAUTION

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

#### **Rear Seats**

### Folding the rear seat (if equipped)

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

## **A** WARNING

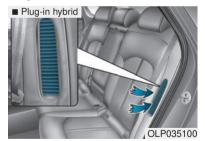
- Never allow passengers to sit on top of the folded down backseat while the vehicle is moving. This is not a proper seating position and no seat belts are available for use. This could result in serious injury or death in case of an accident or sudden stop.
- Objects carried on the folded down backseat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

(Continued)

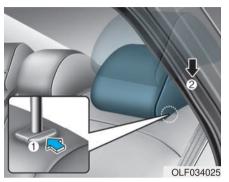
## (Continued)



Do not put objects in the center lower part of rear seats. This could block the battery cooling duct causing battery degradation.



Do not put objects on the left side of rear seat. This could block the battery cooling duct causing battery degradation.



To fold down the rear backseat:

- Set the front backseat to the upright position and if necessary, slide the front seat forward.
- 2. Lower the rear head restraints to the lowest position.



3. Pull on the backseat folding lever (1) located in the trunk.



- 4. Fold the backseat toward the front of the vehicle.
- To use the rear seat, lift and pull the backseat rearward. Pull the backseat firmly until it clicks into place. Make sure the backseat is locked in place.

When you return the backseat to its upright position, always be sure it has locked into position by pushing on the top of the backseat.

### **A** WARNING

When returning the rear backseat from a folded to an upright position, hold the backseat and return it slowly. Ensure that the backseat is completely locked into its upright position by pushing on the top of the backseat. In an accident or sudden stop, the unlocked backseatcould allow cargo to move forward with great force and enter the passenger compartment, which could result in serious injury or death.

# **A** WARNING

Do not place objects in the rear seats, since they cannot be properly secured and may hit vehicle occupants in a collision causing serious injury or death.

# **A** WARNING

Make sure the engine is off, the shift lever is in P (Park), and the parking brake is securely applied whenever loading or unloading cargo. Failure to take these steps may allow the vehicle to move if the shift lever is inadvertently moved to another position.

#### Armrest



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



Cup holder
To use the center cup holder, pull down the armrest.

# Carrying long/narrow cargo (if equipped)



Additional cargo space is provided to accommodate long/narrow cargo (skis, poles, etc.) not able to fit properly in the trunk when closed.

- 1. Pull the armrest down.
- 2. Pull the cover down while pushing the release lever down.

# **A** CAUTION

- Be careful when loading cargo through the rear passenger seats to prevent damage to the vehicle interior.
- When cargo is loaded through the rear passenger seats, ensure the cargo is properly secured to prevent it from moving while driving.

#### **A** WARNING

Cargo should always be secured to prevent it from being thrown about the vehicle in a collision and causing injury to the vehicle occupants. Do not place objects in the rear seats, since they cannot be properly secured and may hit the front seat occupants in a collision.

# **A WARNING**

### **Cargo loading**

Make sure the engine is off, the automatic transmission is in P (Park) and the parking brake is securely applied whenever loading or unloading cargo.

Failure to take these steps may allow the vehicle to move if the shift lever is inadvertently moved to another position.

#### **Head Restraints**

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

#### **A** WARNING

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

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

(Continued)

# (Continued)



Adjust the head restraints so the middle of the head restraint is at the same height as the height of the top of the eyes.

- NEVER adjust the head restraint position of the driver's seat when the vehicle is in motion.
- Adjust the head restraint as close to the passenger's head as possible. Do not use a seat cushion that holds the body away from the backseat.
- Make sure the head restraint locks into position after adjusting it.

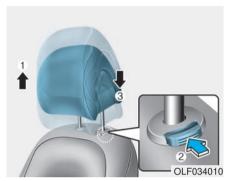
#### NOTICE

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

#### Front seat head restraints



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



Adjusting the height up and down To raise the head restraint:

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

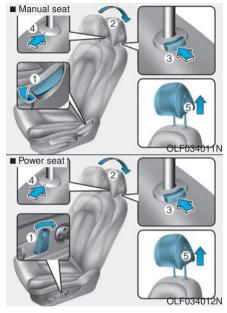
To lower the head restraint:

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



# NOTICE

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

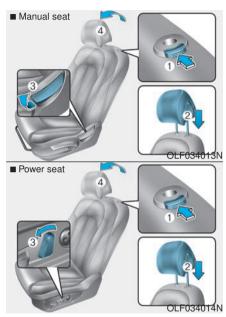


Removal/Reinstallation

To remove the head restraint:

- Recline the backseat (2) rearward using the backseat angle lever/ switch (1).
- 2. Raise the head restraint as far as it can go.

3. Press the head restraint release button (3) while pulling upward on the head restraint (4).



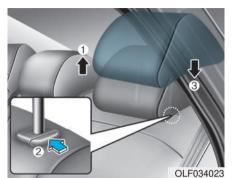
To reinstall the head restraint:

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

#### Rear seat head restraints



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

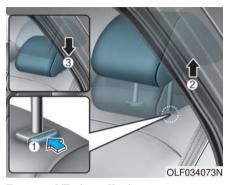


Adjusting the height up and down To raise the head restraint:

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

To lower the head restraint:

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



Removal/Reinstallation

To remove the head restraint:

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

To reinstall the head restraint:

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

## **Seat Warmers and Air Ventilation Seats**

Front seat warmers (if equipped)

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

## **A** WARNING

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

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

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

- Infants, children, elderly or disabled persons, or hospital outpatients.
- People with sensitive skin or who burn easily.

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- Fatigued individuals.
- Intoxicated individuals.
- People taking medication that can cause drowsiness or sleepiness.

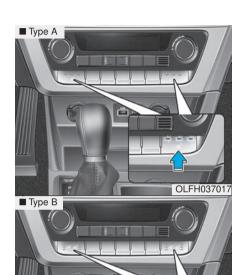
### **A** WARNING

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

#### NOTICE

To prevent damage to the seat warmers and seats:

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



OLFH037021

While the engine is running, push either of the switches to warm the driver's seat or front passenger's seat. During mild weather or under conditions where the operation of the seat warmer is not needed, keep the switches in the OFF position.

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

    OFF → HIGH (

    LOW (

    ) ← MIDDLE (

    )

    Type B

    OFF → HIGH (

    )

    LOW (

    ) ← MIDDLE (

    )

    MIDDLE (

    )
- When pressing the switch for more than 1.5 seconds with the seat warmer operating, the seat warmer will turn OFF.

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

## **i** Information

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

## Air ventilation seats (if equipped)

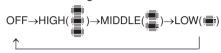


The air ventilation seats are provided to cool the front seats by blowing air through small vent holes on the surface of the seat cushions and backseats.

When the operation of the air ventilation seats are not needed, keep the switches in the OFF position.

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

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



 The air ventilation seats default to the OFF position whenever the ignition switch is turned to the ON position.

## NOTICE

To prevent damage to the air ventilation seat system and seats:

 Use the air ventilation seats ONLY when the air conditioning is on. Using the air ventilation seats for prolonged periods of time with the air conditioning off could cause the air ventilation seats to malfunction.

(Continued)

- 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 backseats; this may cause the air vent holes to become blocked and not work properly.
- Do not place materials such as plastic bags or newspapers under the seats. They may block the air intake causing the air vents to not work properly.
- Do not change the seat covers. It may damage the air ventilation seats.
- If the air vents do not operate, restart the vehicle. If there is no change, have your vehicle inspected by an authorized HYUNDAI dealer.

## Rear seat warmers (if equipped)



While the engine is running, push either of the switches to warm the rear seat.

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

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

$$\begin{array}{ccc} \mathsf{OFF} \to \mathsf{HIGH} \left( \begin{array}{c} \bullet & \bullet \\ \bullet & \bullet \end{array} \right) \to \mathsf{LOW} \left( \begin{array}{c} \bullet & \bullet \\ \bullet & \bullet \end{array} \right) \end{array}$$

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

## Information

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

#### **SEAT BELTS**

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

## **Seat Belt Safety Precautions**

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

## **A** WARNING

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

 ALWAYS properly restrain children under age 13 in the rear seats.

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## (Continued)

- NEVER allow children to ride in the front passenger seat. If a child age 13 or older must be seated in the front seat, move the seat as far back as possible and properly restrain them in the seat.
- NEVER allow an infant or child to be carried on an occupant's lap.
- NEVER ride with the backseat reclined when the vehicle is moving.
- Do not allow children to share a seat or seat belt.
- Do not wear the shoulder belt under your arm or behind your back.
- Always wear both the shoulder portion and lap portion of the lap/shoulder belt.
- Do not use the seat belt if it is twisted. A twisted seat belt will not protect you properly in an accident.

(Continued)

- Do not use a seat belt if the webbing or hardware is damaged.
- Do not latch the seat belt into the buckles of other seats.
- NEVER unfasten the seat belt while driving. This may cause loss of vehicle control resulting in an accident.
- Make sure there is nothing in the buckle interfering with the seat belt latch mechanism.
   This may prevent the seat belt from fastening securely.
- No modifications or additions should be made by the user which will either prevent the seat belt adjusting devices from operating to remove slack, or prevent the seat belt assembly from being adjusted to remove slack.

## **A** WARNING

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

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

## **Seat Belt Warning Light**

Seat belt warning light (for driver's seat)



The driver's seat belt warning light and chime will come on according to the following table when the ignition switch is in the ON position.

Conditions		Warning Pattern	
Seat Belt	Vehicle Speed	Light (Blink)	Chime
Unbuckled		6 seconds	
Buckled		6 seconds	None
Buckled → Unbuckled	Below 3 mph (5 km/h)	6 seconds	None
	3 mph~ 6 mph	6 seconds	
	Above 6 mph (10 km/h)	6 sec. ON / 24 sec. OFF (11 times)	
Unbuckled	Above 6 mph (10 km/h) ↓ Below 3 mph (5 km/h)	6 seconds *¹ ↓	

<sup>\*1:</sup> The Warning Pattern repeats 11 times with an interval of 24 seconds. If the driver's seat belt is buckled, the light will stop within 6 seconds and chime will stop immediately.

<sup>\*2:</sup> The light will stop within 6 seconds and chime will stop immediately.

## Seat belt warning light (for front passenger's seat)



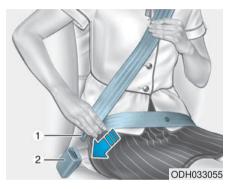
The front passenger's seat belt warning light will activate to the following table when the ignition switch is in "ON" position.

Conditions		Warning Pattern	
Seat Belt	Vehicle Speed	Light-Blink	
Unbuckled		6 seconds	
Unbuckled	Above 6mph (10 km/h)	Continuously	
Buckled		6 seconds	
Buckled → Unbuckled	Above 6mph (10 km/h)	Continuously *1	
	Below 6mph (10 km/h)	None	

\*1 : The seat belt warning light will go off if the vehicle speed decreases below 3 mph (5 km/h). If the vehicle speed increases above 3 mph (5 km/h), the warning light will blink again.

## **Seat Belt Restraint System**

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



## To fasten your seat belt:

Pull the seat belt out of the retractor and insert the metal tab (1) into the buckle (2). There will be an audible "click" when the tab locks into the buckle.



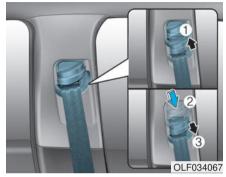
You should place the lap belt (1) portion across your hips and the shoulder belt (2) portion across your chest

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

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

#### NOTICE

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



Height adjustment

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

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

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

To raise the height adjuster, pull it up (1). To lower it, push it down (3) while pressing the height adjuster button (2). Release the button to lock the anchor into position. Try sliding the height adjuster to make sure that it has locked into position.



## **A** 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.

(Continued)

- 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.

## Rear Seat Belt – Passenger's 3point system with convertible locking retractor

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

#### To fasten your seat belt:

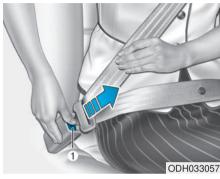
Pull the seat belt out of the retractor and insert the metal tab into the buckle. There will be an audible "click" when the tab locks into the buckle. When not securing a child restraint, the seat belt operates in the same way as the driver's seat belt (Emergency Locking Retractor Type). It automatically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

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

#### NOTICE

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

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



To release your seat belt:

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

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

## Pre-tensioner seat belt (Driver and front passenger)

#### **Retractor Pre-tensioner**

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

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

When the vehicle stops suddenly, or if the occupant tries to lean forward too quickly, the seat belt retractor will lock into position. In certain frontal collisions, the pre-tensioner will activate and pull the seat belt into tighter contact against the occupant's body.



#### **Seat Belt Anchor Pre-tensioner**

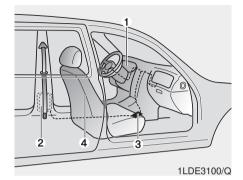
The purpose of the Seat Belt Anchor Pre-tensioner is to help the lap belt fit tightly against the occupant's lower body in certain frontal collisions. The Seat Belt Anchor Pre-tensioner may be activated in certain crashes where the frontal collision is severe enough.

## **A** WARNING

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

### **A** WARNING

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



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

- 1. SRS air bag warning light
- 2. Retractor pre-tensioner
- 3. SRS control module
- 4. Anchor Pre-tensioner

#### NOTICE

The sensor that activates the SRS air bag is connected with the pre-tensioner seat belts. The SRS air bag warning light on the instrument panel will illuminate for approximately 6 seconds after the ignition switch is in the ON position, and then it should turn off.

If the pre-tensioner is not working properly, the warning light will illuminate even if the SRS air bag is not malfunctioning. If the warning light does not illuminate, stays illuminated or illuminates when the vehicle is being driven, have an authorized HYUNDAI dealer inspect the pre-tensioner seat belts and SRS air bags as soon as possible.

#### NOTICE

- Both the driver's and front passenger's pre-tensioner seat belts may be activated in certain frontal or side collisions or rollovers.
- The pre-tensioners will not be activated if the seat belts are not worn at the time of the collision.
- When the pre-tensioner seat belts are activated, a loud noise may be heard and fine dust, which may appear to be smoke, may be visible in the passenger compartment. These are normal operating conditions and are not hazardous.
- Although it is non-toxic, the fine dust may cause skin irritation and should not be breathed for prolonged periods. Wash all exposed skin areas thoroughly after an accident in which the pre-tensioner seat belts were activated.

#### Rear center seat belt



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

## 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 shoulder belt across the chest, routed away from the neck. Place the lap belt below the belt line so that it fits snugly and as low as possible across the hips, not across the abdomen.

## **A** WARNING

To reduce the risk of serious injury or death to an unborn child during an accident, pregnant women should NEVER place the lap portion of the seat belt above or over the area of the abdomen where the unborn child is located.

#### Seat belt use and children

#### Infant and small children

All 50 states have child restraint laws which require children to travel in approved child restraint devices, including booster seats. The age at which seat belts can be used instead of child restraints differs among states, so you should be aware of the specific requirements in your state, and where you are travelling. Infant and child restraints must be properly placed and installed in a rear seat. For more information refer to the "Child Restraint Systems" section in this chapter.

## **A** WARNING

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

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

Small children are best protected from injury in an accident when properly restrained in the rear seat by a child restraint system that meets the requirements of the Federal Motor Vehicle Safety Standards. Before buying any child restraint system, make sure that it has a label certifying that it meets Federal Motor Vehicle Safety Standard 213. The restraint must be appropriate for your child's height and weight. Check the label on the child restraint for this information. Refer to the "Child Restraint Systems" section in this chapter.

#### Larger children

Children under age 13 and who are too large for a booster seat must always occupy the rear seat and use the available lap/shoulder belts. A seat belt should lie across the upper thighs and be snug across the shoulder and chest to restrain the child safely. Check belt fit periodically. Children are afforded the most safety in the event of an accident when they are restrained by a proper restraint system and/or seat belts in the rear seat. Always have the LATCH system inspected by your authorized HYUNDAI dealer after an accident. An accident can damage the LATCH system and may not properly secure the child restraint.

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

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

### **A** WARNING

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

## Transporting an injured person

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

### One person per belt

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

#### Do not lie down

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

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

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

## **A** WARNING

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

#### **Care of Seat Belts**

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

## Periodic inspection

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

## Keep belts clean and dry

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

### When to replace seat belts

The entire seat belt assembly or assemblies should be replaced if the vehicle has been involved in an accident. This should be done even if no damage is visible. Additional questions concerning seat belt operation should be directed to an authorized HYUNDAI dealer.

### CHILD RESTRAINT SYSTEM (CRS)

**Children Always in the Rear** 

## **A** WARNING

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

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

Children under age 13 must always ride in the rear seats and must always be properly restrained to minimize the risk of injury in an accident, sudden stop or sudden maneuver. According to accident statistics, children are safer when properly restrained in the rear seats than in the front seat. Even with air bags, children can be seriously injured or killed. Children too large for a child restraint must use the seat belts provided.

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

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

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

### Child restraint system (CRS)

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

## **A** WARNING

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

- NEVER install a child or infant restraint in the front passenger's seat.
- Always properly secure the child restraint to a rear seat of the vehicle.

(Continued)

### (Continued)

- Always follow the child restraint system manufacturer's instructions for installation and use.
- Always properly restrain your child in the child restraint.
- If the vehicle head restraint prevents proper installation of a child seat (as described in the child restraint system manual), the head restraint of the respective seating position shall be readjusted or entirely removed.
- Do not use an infant carrier or a child safety seat that "hooks" over a backseat, it may not provide adequate protection in an accident.
- After an accident, have a HYUNDAI dealer check the child restraint system, seat belts, tether anchors and lower anchors.

## Selecting a Child Restraint System (CRS)

When selecting a CRS for your child, always:

- Make sure the CRS has a label certifying that it meets applicable Federal Motor Vehicle Safety Standards (FMVSS 213).
- Select a child restraint based on your child's height and weight. The required label or the instructions for use typically provide this information.
- Select a child restraint that fits the vehicle seating position where it will be used.
- Read and comply with the warnings and instructions for installation and use provided with the child restraint system.

## Child restraint system types

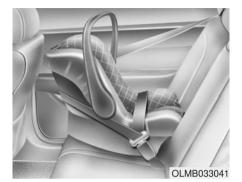
There are three main types of child restraint systems: rear-facing seats, forward-facing seats, and booster seats. They are classified according to the child's age, height and weight.

Rear-facing child seats

### **A** WARNING

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

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



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

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

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

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



## Forward-facing child restraints

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

Once your child outgrows the forwardfacing child restraint, your child is ready for a booster seat.

#### **Booster seats**

A booster seat is a restraint designed to improve the fit of the vehicle's seat belt system. A booster seat positions the seat belt so that it fits properly over the lap of your child.

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

## Installing a Child Restraint System (CRS)

### **A** WARNING

Before installing your child restraint system always:

- Read and follow the instructions provided by the manufacturer of the child restraint.
- Read and follow the instructions regarding child restraint systems in this manual.

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

## **A** WARNING

If the vehicle headrest prevents proper installation of a child seat (as described in the child seat system manual, the headrest of the respective seating position shall be readjusted or entirely removed. After selecting a proper child seat for your child, check to make sure it fits properly in your vehicle. Follow the instructions provided by the manufacturer when installing the child seat. Note these general steps when installing the seat to your vehicle:

- Properly secure the child restraint to the vehicle. All child restraints must be secured to the vehicle with the lap part of a lap/shoulder belt or with the LATCH system.
- Make sure the child restraint is firmly secured. After installing a child restraint to the vehicle, push and pull the seat forward and from side-to-side to verify that it is securely attached to the seat. A child restraint secured with a seat belt should be installed as firmly as possible. However, some side-toside movement can be expected.
- Secure the child in the child restraint. Make sure the child is properly strapped in the child restraint according to the manufacturer instructions.

## **A** CAUTION

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

## Lower Anchors and Tether for Children (LATCH) System

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

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

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

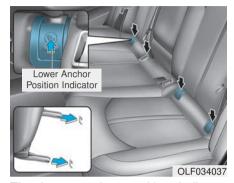
The child seat manufacturer will provide you with instructions on how to use the child seat with its attachments for the LATCH lower anchors.



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

## **A WARNING**

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



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

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

To use the lower anchor, push the upper portion of the lower anchor cover.

## Securing a child restraint with the LATCH anchors system

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

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

## **A WARNING**

Take the following precautions when using the LATCH system:

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

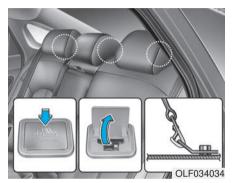
#### NOTICE

The recommended maximum weight for the LATCH system is 65 lbs. (30 kg). When selecting a proper child restraint, consider that the maximum total weight of the child plus the child restraint should be less than 65 lbs (30 kg).

As a guide, the MAX child restraint weight should be determined by the following calculation:

Child Restraint Weight = 65 - (child's total weight in lbs.)

## Securing a child restraint seat with "Tether Anchor" system



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

Child restraint hook holders are located on the package tray.

### **A** WARNING

Take the following precautions when installing the tether strap:

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



To install the tether anchor:

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

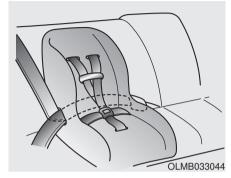
## Securing a child restraint with a lap belt or lap/shoulder belt

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

### **A** WARNING

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

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



## Automatic locking mode

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

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

To install a child restraint system on the rear seats, do the following:

 Place the child restraint system on a rear seat and route the lap/ shoulder belt around or through the child restraint, following the restraint manufacturer's instructions.

Be sure the seat belt webbing is not twisted.

#### NOTICE

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



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

## **i** Information

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



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



4. Slowly allow the shoulder portion of the seat belt to retract and listen for an audible "clicking" or "ratcheting" sound. This indicates that the retractor is in the "Automatic Locking" mode. If no distinct sound is heard, repeat steps 3 and 4.

- Remove as much slack from the belt as possible by pushing down on the child restraint system while feeding the shoulder belt back into the retractor.
- 6. Push and pull on the child restraint system to confirm that the seat belt is holding it firmly in place. If it is not, release the seat belt and repeat steps 2 through 6.
- 7. Double check that the retractor is in the "Automatic Locking" mode by attempting to pull more of the seat belt out of the retractor. If you cannot, the retractor is in the "Automatic Locking" mode.

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

#### NOTICE

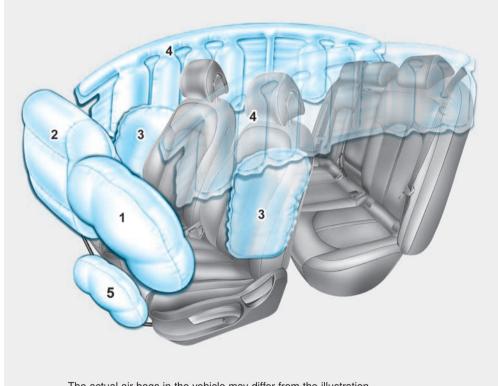
When the seat belt is allowed to retract to its fully stowed position, the retractor will automatically switch from the "Automatic Locking" mode to the emergency lock mode for normal adult usage.

## **A** WARNING

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

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

## AIR BAG - ADVANCED SUPPLEMENTAL RESTRAINT SYSTEM



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

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

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This vehicle is equipped with an Advanced Supplemental Air Bag System for the driver's seat and front passenger's seats.

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

You can be severely injured or killed in an accident if you are not wearing a seat belt. Air bags are designed to supplement seat belts, but do not replace them. Also, air bags are not designed to deploy in every collision. In some accidents, the seat belts are the only restraint protecting you.

## **A** WARNING

#### **AIR BAG SAFETY PRECAUTIONS**

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

NEVER place a child in any child restraint or booster seat in the front passenger seat. An inflating air bag could forcefully strike the infant or child causing serious or fatal injuries.

ABC - Always Buckle Children under age 13 in the back seat. It is the safest place for children of any age to ride. If a child age 13 or older must be seated in the front seat, he or she must be properly belted and the seat should be moved as far back as possible.

All occupants should sit upright with the backseat 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 engine is turned off. If an occupant is out of position during an accident, the rapidly deploying air bag may forcefully contact the occupant causing serious or fatal injuries.

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

Move your seat as far back as possible from front air bags, while still maintaining control of the vehicle. The U.S. National Highway Traffic Safety Administration (NHTSA) recommends that drivers allow at least 10 inches (25 cm) between the center of the steering wheel and the chest.

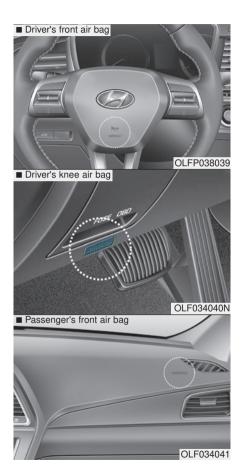
## Where Are the Air Bags?

## Driver's and passenger's front air bags

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

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

The air bags are labeled with the letters "AIR BAG" embossed on the pad covers.



The purpose of the SRS is to provide the vehicle's driver and front passengers with additional protection than that offered by the seat belt system alone. The SRS uses sensors to gather information about the driver's and front passenger's seat belt usage and impact severity.

The seat belt buckle sensors determine if the driver and front passenger's seat belts are fastened. These sensors provide the ability to control the SRS deployment based on whether or not the seat belts are fastened, and how severe the impact is. The advanced SRS offers the ability to control the air bag inflation within two levels. A first stage level is provided for moderate-severity impacts.

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

A second stage level is provided for

more severe impacts.

### **A** WARNING

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

- Seat belts must be worn at all times to help keep occupants positioned properly.
- Move your seat as far back as possible from front air bags, while still maintaining control of the vehicle.
- Never lean against the door or center console.
- Do not allow the front passenger to place their feet or legs on the dashboard.
- No objects (such as crash pad cover, cellular phone holder, cup holder, perfume or stickers) should be placed over or near the air bag modules on the steering wheel, instrument panel, windshield glass, and the front passenger's panel above the glove box.

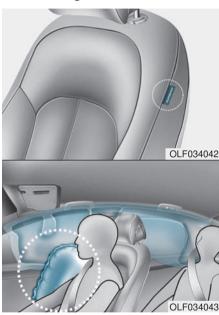
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Such objects could cause harm if the vehicle is in a crash severe enough to cause the air bags to deploy.

 Do not attach any objects on front windshield and inside mirror.

## Side air bags



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

The side air bags are designed to deploy during certain side impact collisions, depending on the crash severity, angle, speed and point of impact.

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

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

## **A** WARNING

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

- Seat belts must be worn at all times to help keep occupants positioned properly.
- Do not allow passengers to lean their heads or bodies onto doors, put their arms on the doors, stretch their arms out of the window, or place objects between the doors and seats.

(Continued)

#### (Continued)

- Hold the steering wheel at the 9 o'clock and 3 o'clock positions, to minimize the risk of injuries to your hands and arms.
- Do not use any accessory seat covers. This could reduce or prevent the effectiveness of the system.
- Do not place any objects over the air bag or between the air bag and yourself. Also, do not attach any objects around the area the air bag inflates such as the door, side door glass, front and rear pillar.
- Do not place any objects between the door and the seat. They may become dangerous projectiles if the side air bag inflates.
- Do not install any accessories on the side or near the side air bags.

(Continued)

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

### Curtain air bags



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

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

The curtain air bags are designed to deploy during certain side impact collisions, depending on the crash severity, angle, speed and impact.

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

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

## **A** WARNING

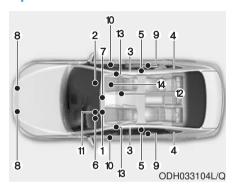
To reduce the risk of serious injury or death from inflating curtain air bags, take the following precautions:

- All seat occupants must wear seat belts at all times to help keep occupants positioned properly.
- Properly secure child restraints as far away from the door as possible.

(Continued)

- Do not place any objects over the air bag. Also, do not attach any objects around the area the air bag inflates such as the door, side door glass, front and rear pillar, roof side rail.
- Do not hang other objects except clothes, especially hard or breakable objects. In an accident, it may cause vehicle damage or personal injury.
- Do not allow passengers to lean their heads or bodies onto doors, put their arms on the doors, stretch their arms out of the window, or place objects between the doors and seats.
- Do not open or repair the side curtain air bags.

## How Does the Air Bag System Operate?



The SRS consists of the following components:

- 1. Driver's front air bag module
- 2. Passenger's front air bag module
- 3. Side air bag modules
- 4. Curtain air bag modules
- Retractor pre-tensioner assemblies
- 6. Air bag warning light
- 7. SRS control module (SRSCM)/ Rollover sensor
- 8. Front impact sensors

- 9. Side impact sensors
- 10. Side pressure sensors
- 11. Driver's knee air bag module
- 12. Front passenger's seat belt buckle sensors
- 13. Anchor pre-tensioner
- 14. Occupant classification system

The SRSCM continually monitors all SRS components while the Engine Start/Stop button is in the ON position to determine if a crash impact is severe enough to require air bag deployment or pre-tensioner seat belt deployment.



SRS warning light

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

## **A** WARNING

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

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

#### (Continued)

- The light does not turn on for approximately six seconds when the ignition switch is in the ON position.
- The light remains illuminated after approximately six seconds.
- The light comes on while the vehicle is in motion.
- The light blinks when the engine is running.

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

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

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

- Air bags are activated (able to inflate if necessary) only when the ignition switch is in the ON position.
- Air bags 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 air bags will inflate. Generally, air bags are designed to inflate based upon the severity of a collision and its direction. These two factors determine whether the sensors produce an electronic deployment/inflation signal.
- Air bag deployment depends on a number of 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 air bags will completely inflate and deflate in an instant. It is virtually impossible for you to see the air bags inflate during an accident. It is much more likely that you will simply see the deflated air bags hanging out of their storage compartments after the collision.

- In addition to inflating in certain side collisions, vehicles equipped with a rollover sensor, side and curtain air bags will inflate if the sensing system detects a rollover.
   When a rollover is detected, side and curtain air bags will remain inflated longer to help provide protection from ejection, especially when used in conjunction with the seat belts.
- To help provide protection, the air bags must inflate rapidly. The speed of air bag inflation is a consequence of extremely short time in which to inflate the air bag between the occupant and the vehicle structures before the occupant impacts those structures. This speed of inflation reduces the risk of serious or life-threatening injuries and is thus a necessary part of air bag design.

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

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

You can take steps to reduce the risk of being injured by an inflating air bag. The greatest risk is sitting too close to the air bag. An air bag needs about 10 inches (25 cm) of space to inflate. NHTSA recommends that drivers allow at least 10 inches (25 cm) between the center of the steering wheel and the chest.

## **A WARNING**

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

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

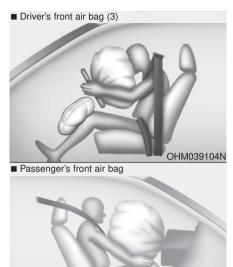


When the SRSCM detects a sufficiently severe impact to the front of the vehicle, it will automatically deploy the front air bags.



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

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



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

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#### **A** WARNING

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

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

# What to Expect After an Air Bag Inflates

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

#### **A WARNING**

After an air bag inflates, take the following precautions:

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

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- Always wash exposed skin areas thoroughly with cold water and mild soap.
- Always have an authorized HYUNDAI dealer replace the air bag immediately after deployment. Air bags are designed to be used only once.

# Noise and smoke from inflating air bag

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

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

# Occupant Classification System (OCS)



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

#### Main components of the Occupant Classification System

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

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

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

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

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

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

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

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

#### Condition and operation in the front passenger Occupant Classification System

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

- \*1 The system judges a person of adult size as an adult. When a smaller adult sits in the front passenger seat, the system may recognize him/her as a child depending on his/her physique and posture.
- \*2 Do not allow children to ride in the front passenger seat. When a larger child who has outgrown a child restraint system sits in the front passenger seat, the system may recognize him/her as an adult depending upon his/her physique or sitting position.
- \*3 Never install a child restraint system on the front passenger seat.
- \*4 The PASSENGER AIR BAG "OFF" indicator may turn on or off when a child above 12 months to 12 years old (with or without child restraint system) sits in the front passenger seat. This is a normal condition.

#### **A** WARNING

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



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



 NEVER ride with the backseat reclined when the vehicle is moving.



 NEVER place your feet on the front passenger backseat.



 NEVER place your feet or legs on the dashboard.



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

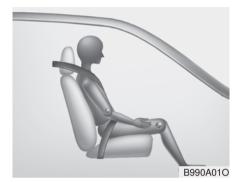


 NEVER lean on the door or center console or sit on one side of the front passenger seat.

(continued)

#### (continued)

- Do not put an electronic device (ex. Laptop computer, after market, navigation, satellite audio, video game machine, MP3, AC inverter, etc.) in the front passenger backseat pocket or on the front passenger seat.
- Do not place a sitting mat on the front passenger seat.
- Do not place any items under the front passenger seat.
- Do not place sharp objects on the front passenger seat. These may damage the occupant classification system. If they puncture the seat cushion.
- Avoid spilling liquids on the front seat; this may cause the OCS not to work properly. Keep the front seat dry at all times.



#### Proper seated position for OCS

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

#### **A** WARNING

Never allow an adult passenger to ride in the front passenger seat when the "PASSENGER AIR BAG OFF" indicator is illuminated. During a collision, the air bag will not inflate if the indicator is illuminated. Have your passenger reposition themselves in the seat. If the "PASSENGER AIR BAG OFF" indicator remains illuminated after the passenger repositions himself properly and the vehicle is restarted, have the passenger move to the rear seat because the air bag will not inflate.

#### NOTICE

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

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



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

#### **A** WARNING

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

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

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

#### Air bag collision sensors

#### **A** WARNING

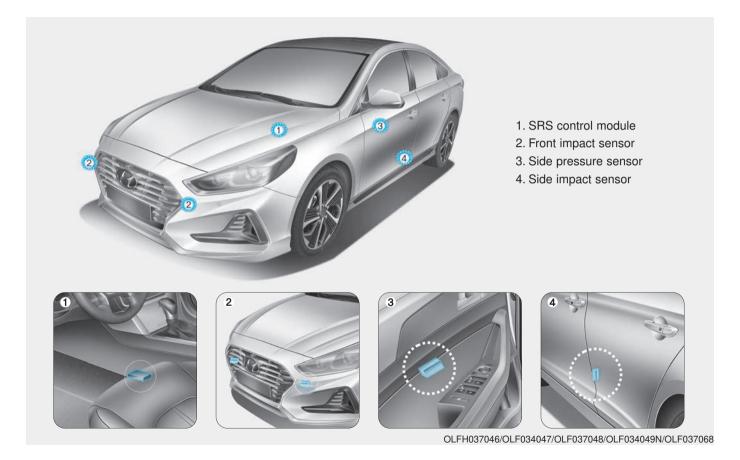
To reduce the risk of an air bag deploying unexpectedly and causing serious injury or death:

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

(Continued)

#### (Continued)

- Place the ignition switch in the LOCK/OFF or ACC position when the vehicle is being towed to prevent inadvertent air bag deployment.
- Have all air bag repairs conducted by an authorized HYUNDAI dealer.

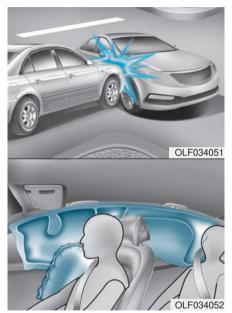


#### Air bag inflation conditions



Front air bags

Front air bags and the driver's knee air bag are designed to inflate in a frontal collision depending on the severity, speed, or angles of impact of the front collision.



Side and curtain air bags

Side and curtain air bags are designed to inflate when an impact is detected by side collision sensors depending on the severity, speed, or angles of impact resulting from a side impact collision.

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

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

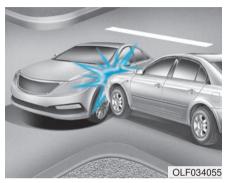
#### Air bag non-inflation conditions



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



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



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

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



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

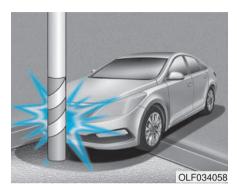


Just before impact, drivers often brake heavily. Such heavy braking lowers the front portion of the vehicle causing it to "ride" under a vehicle with a higher ground clearance. Air bags may not inflate in this "underride" situation because deceleration forces that are detected by sensors may be significantly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



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

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



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

#### **SRS Care**

The SRS is virtually maintenancefree and there are no parts you can safely service by yourself. If the SRS air bag warning light does not illuminate when the ignition switch or the engine Start/Stop button is in the ON position, or continuously remains on, have your vehicle immediately inspected by an authorized HYUNDAI dealer.

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

#### **A** WARNING

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

- Do not attempt to modify or disconnect the SRS components or wiring, including the addition of any kind of badges to the pad covers or modifications to the body structure.
- Do not place objects over or near the air bag modules on the steering wheel, instrument panel, or the front passenger's panel above the glove box.
- Clean the air bag pad covers with a soft cloth moistened with plain water. Solvents or cleaners could adversely affect the air bag covers and proper deployment of the system.
- Always have inflated air bags replaced by an authorized HYUNDAI dealer.

(Continued)

#### (Continued)

 If components of the air bag system must be discarded, or if the vehicle must be scrapped, certain safety precautions must be observed. Consult an authorized HYUNDAI dealer for the necessary information. Failure to follow these precautions could increase the risk of personal injury.

#### **Additional Safety Precautions**

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

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

#### Do not modify the front seats.

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

Do not place items under the front seats. Placing items under the front seats could interfere with the operation of the supplemental restraint system sensing components and wiring harnesses.

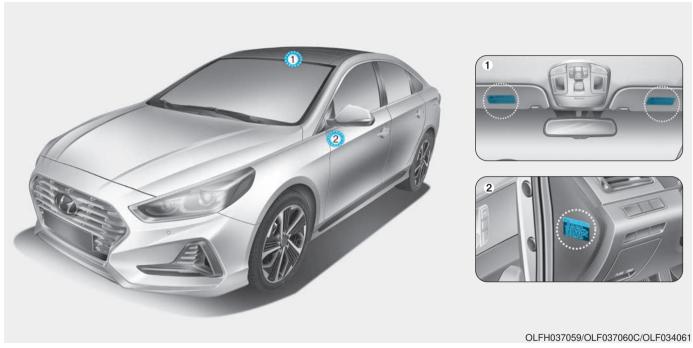
Do not cause impact to the doors. Impact to the doors when the ignition switch or the engine Start/Stop button is in the ON position may cause the air bags to inflate.

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

#### Adding equipment to or modifying your air bag equipped vehicle

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

#### **Air Bag Warning Labels**



Air bag warning labels, required by the U.S. National Highway Traffic Safety Administration (NHTSA), are attached to alert the driver and passengers of potential risks of the air bag system. Be sure to read all of the information about the air bags that are installed on your vehicle in this Owners Manual.

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# ACCESSING YOUR VEHICLE Smart Key



Your HYUNDAI uses a Smart Key, which you can use to lock or unlock a door (and trunk) and even start the engine.

- 1. Door Lock
- 2. Door Unlock
- 3. Trunk Unlock
- 4. Panic

#### Locking



#### To lock:

- 1. Close all doors, engine hood and trunk.
- Either press the door handle button or press the Door Lock button
   on the smart key.
- 3. The hazard warning lights will blink and the chime will sound once.
- Make sure the doors are locked by checking the position of the door lock button inside the vehicle.

#### Information

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

Even though you press the outside door handle button, the doors will not lock and the chime will sound for three seconds if any of the following occur:

- The Smart Key is in the vehicle.
- The Engine Start/Stop button is in ACC or ON position.
- Any door except the trunk is open.

#### **A** WARNING

Do not leave the Smart Key in your vehicle with unsupervised children. Unattended children could press the Engine 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



To unlock your vehicle:

- 1. Make sure you have the smart key in your possession.
- Press either the button on the door handle of the Door Unlock button
   on the smart key. The driver's door will unlock and the hazard warning lights will blink two times.
- If you press the driver door outside door handle button or Door Unlock button on the smart key again within four seconds, then all the doors will unlock.

#### Information

- The door handle button will only operate when the smart key is within 28-40 inches (0.7~1m) from the outside door handle.
- Either the driver or front passenger door can be opened with the door handle button when the smart key is within this range.
- If you press the front passenger outside door handle, while carrying the Smart Key, all doors will unlock.
- After unlocking the doors, the doors will lock automatically after 30 seconds unless a door is opened.

#### Opening the trunk

To open the trunk:

- 1. Make sure you have the smart key in your possession.
- Press either the trunk handle button or press and hold the trunk Unlock button (3) on the smart key for more than one second. The hazard warning lights will blink two times.
- Once the trunk is opened and then closed, the trunk will lock automatically.

#### Information

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

#### Panic button

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

#### Start-up

You can start the engine without inserting the key.

For more information, refer to the "Engine Start/Stop Button" section in chapter 5.

#### NOTICE

To prevent damaging the smart key:

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

#### NOTICE

Always have the smart key with you when leaving the vehicle. If the smart key is left near the vehicle, the vehicle battery may be discharged.

#### Mechanical key

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



To remove the mechanical key from the smart key fob, press and hold the release button (1) and pull the mechanical key (2) out.

To unlock the vehicle using the mechanical key, insert the mechanical key into the key hole on the driver door.

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

#### Loss of a smart key

A maximum of two Smart Keys can be registered to a single vehicle. If you happen to lose your smart key, you should immediately take the vehicle and remaining keys to your authorized HYUNDAI dealer or tow the vehicle, if necessary.

#### Smart key precautions

The smart key will not work if any of the following occur:

- The smart key is close to a radio transmitter such as a radio station or an airport which can interfere with normal operation of the transmitter.
- The smart key is near a mobile two way radio system or a cellular phone.
- Another vehicle's smart key is being operated close to your vehicle.

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

If the smart key is in close proximity to your mobile phone, the signal could be blocked by your mobile phone's normal operational signals. This is especially important when the phone is active such as making and receiving calls, text messaging, and/or sending/receiving emails.

When possible, avoid placing the remote key and your mobile phone in the same location such as a pants or jacket pocket in order to avoid interference between the two devices.

#### **A** CAUTION

Keep the smart key away from electromagnetic materials that blocks electromagnetic waves to the key surface.

#### Information

This device complies with Part 15 of the FCC rules.

Operation is subject to the following three conditions:

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

#### Battery replacement

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



Battery Type: CR2032

To replace the battery:

- 1. Pry open the rear cover of the smart key.
- 2. Remove the old battery and insert the new battery.
- 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, contact an authorized HYUNDAI dealer.

#### **i** Information



An inappropriately disposed battery can be harmful to the environment and human health. Dispose the battery according to your local law(s) and regulation(s).

#### **Immobilizer System**

The immobilizer system protects your vehicle from theft. If an improperly coded key (or other device) is used, the engine's fuel system is disabled.

When the engine 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.

Place engine Start/Stop button to the OFF position, then place the engine Start/Stop button to the ON position again.

The system may not recognize your key's coding if another immobilizer key or other metal object (i.e., key chain) is near the key. The engine 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, it is recommended that you contact your HYUNDAI dealer.

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

#### **A** WARNING

In order to prevent theft of your vehicle, do not leave spare keys anywhere in your vehicle. Your immobilizer password is a customer unique password and should be kept confidential.

#### NOTICE

The transponder in your key is an important part of the immobilizer system. It is designed to give years of trouble-free service, however you should avoid exposure to moisture, static electricity and rough handling. Immobilizer system malfunction could occur.

#### Information

This device complies with Part 15 of the FCC rules.

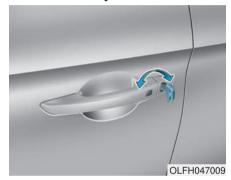
Operation is subject to the following three conditions:

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

#### **DOOR LOCKS**

#### Operating Door Locks from Outside the Vehicle

#### Mechanical key

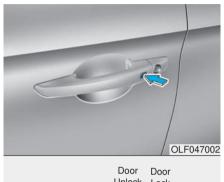


If you lock the driver's door with a mechanical key, all vehicle doors will lock. If you unlock the driver's door with a mechanical key, the driver's door will unlock.

Once the doors are unlocked, they may be opened by pulling the door handle.

When closing the door, push the door by hand. Make sure that doors are closed securely.

#### Smart key





To lock the doors, press the button on the outside door handle while carrying the Smart Key with you or press the Door Lock button on the Smart Key. Press the button on the driver's outside door handle while carrying the Smart Key with you or press the Door Unlock button on the Smart Key, the driver's door will unlock. If you press the button on the front passenger's outside door, all doors will unlock.

Once the doors are unlocked, they may be opened by pulling the door handle.

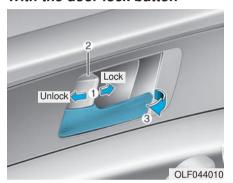
When closing the door, push the door by hand. Make sure that doors are closed securely.

#### **i** Information

- In cold and wet climates, door lock and door mechanisms may not work properly due to freezing conditions.
- If the door is locked/unlocked multiple times in rapid succession with either the vehicle key or door lock switch, the system may stop operating temporarily in order to protect the circuit and prevent damage to system components.

# **Operating Door Locks from Inside the Vehicle**

#### With the door lock button



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

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

#### *i* Information

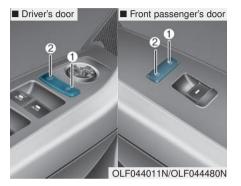
If a power door lock ever fails to function while you are in the vehicle try one or more of the following techniques to exit:

- Operate the door unlock feature repeatedly (both electronic and manual) while simultaneously pulling on the door handle.
- Operate the other door locks and handles, front and rear.
- Lower a front window and use the mechanical key to unlock the door from outside.

#### **A WARNING**

Do not pull the inner door handle of driver's (or passenger's) door while the vehicle is moving.

### With the central door lock switch



When pressing the  $(\frac{1}{1})$  switch (1), all vehicle doors will lock.

When pressing the (1) switch (2), all vehicle doors will unlock.

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

#### **A** WARNING

The doors should always be fully closed and locked while the vehicle is in motion. If the doors are unlocked, the risk of being thrown from the vehicle in a crash is increased.

#### **A** WARNING

Do not leave children or animals unattended in your vehicle. An enclosed vehicle can become extremely hot, causing death or serious injury to unattended children or animals who cannot escape the vehicle. Children might operate features of the vehicle that could injure them, or they could encounter other harm, possibly from someone gaining entry to the vehicle.

#### **A** WARNING

Always secure your vehicle.

Leaving your vehicle unlocked increases the potential risk to you or others from someone hiding in your vehicle.

To secure your vehicle, while depressing the brake, move the shift lever to the P (Park) position, engage the parking brake, and place engine Start/Stop button to the OFF position, close all windows, lock all doors, and always take the key with you.

#### **A** WARNING

If people must spend a longer time in the vehicle while it is very hot or cold outside, there is rick of injuries or danger to life. Do not lock the vehicle from the outside when there are people in it.

#### **A** CAUTION

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

#### **Auto Door Lock/Unlock Features**

# Impact sensing door unlock system

All doors will be automatically unlocked when an impact causes the air bags to deploy.

#### Shift lever auto door lock

All doors will be automatically locked when shifting the shift lever out of P (Park) with the engine running.

You can activate or deactivate the Auto Door Lock/Unlock features from the User Settings Mode on the LCD display.

For more information, refer to the "LCD Display" section in this chapter.

#### **Child-Protector Rear Door locks**



The child safety lock is provided to help prevent children seated in the rear from accidentally opening the rear doors. The rear door safety locks should be used whenever children are in the vehicle.

The child safety lock is located on the edge of each rear door. When the child safety lock is in the lock (1) position, the rear door will not open if the inner door handle (2) is pulled. To lock the child safety lock, insert a screwdriver into the hole and turn it to the lock position.

To allow a rear door to be opened from inside the vehicle, unlock the child safety lock.

#### **A** WARNING

If children accidently open the rear doors while the vehicle is in motion, they could fall out of the vehicle. The rear door safety locks should always be used whenever children are in the vehicle.

#### THEFT-ALARM SYSTEM

This system helps to protect your vehicle and valuables. The horn will sound and the hazard warning lights will blink continuously if any of the following occurs:

- A door is opened without using the smart key.
- The trunk 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 smart key.

The Theft Alarm System automatically sets 30 seconds after you lock the doors and the trunk. For the system to activate, you must lock the doors and the trunk from outside the vehicle with the smart key or by pressing the button on the outside of the door handle with the smart key in your possession.

The hazard warning lights will blink and the chime will sound once to indicate the system is armed.

Once the security system is set, opening any door, the trunk, or the hood without using the smart key will cause the alarm to activate.

The Theft Alarm System will not set if the hood, the trunk, or any door is not fully closed. If the system will not set, check the hood, the trunk, or the doors are fully closed.

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

#### Information

- Do not lock the doors until all passengers have left the vehicle. If the remaining passenger leaves the vehicle when the system is armed, the alarm will be activated.
- If the vehicle is not disarmed with the smart key, open the doors by using the mechanical key and start hybrid system by directly pressing the switch with the smart key.
- If the system is disarmed by unlocking the vehicle, but neither a door or the trunk is opened within 30 seconds, the doors will relock and the system will rearm automatically.

#### **DRIVER POSITION MEMORY SYSTEM (IF EQUIPPED)**



The Driver Position Memory System is provided to store and recall the following memory settings with a simple button operation.

- Driver's seat position
- Outside rearview mirror position
- Instrument panel illumination intensity

If the battery is disconnected, the position memory will be lost and the driving positions must be stored in the system again.

If the Driver Position Memory System does not operate normally, have the system checked by an authorized HYUNDAI dealer.

#### **A** WARNING

Never attempt to operate the driver position memory system while the vehicle is moving.

This could result in loss of control, and an accident causing death, serious injury, or property damage.

#### **Storing Positions into Memory**

- Check that the shift lever is in P (Park) while the engine Start/Stop button is in the ON position.
- Adjust the driver's seat position, outside rearview mirror position and instrument panel illumination intensity to positions comfortable for the driver.
- 3. Press the SET button. The system will beep once and notify you "Press button to save settings" on the LCD display.
- Press one of the memory buttons (1 or 2) within 5 seconds. The system will beep twice when the memory has been successfully stored.

5.



"Driver 1 (or 2) settings saved" will appear on the LCD display.

#### Recalling positions from memory

- 1. Check that the shift lever is in P (Park) while the engine Start/Stop button is in the ON position.
- 2. Press the desired memory button (1 or 2). The system will beep once, and then the driver's seat position, outside rearview mirror position and instrument panel illumination intensity will automatically adjust to the stored positions.

3.

	Driver 1 settings applied	Driver 2 settings applied				
		I F047401N/OLF047402N				

"Driver 1(or 2) settings is applied" will appear on the LCD display.

#### NOTICE

- While recalling the "1" memory position, pressing the SET or 1 button temporarily stops the adjustment of the recalled memory position. Pressing the 2 button recalls the "2" memory position.
- While recalling the "2" memory position, pressing the SET or 2 button temporarily stops the adjustment of the recalled memory position. Pressing the 1 button recalls the "1" memory position.
- While recalling the stored positions, pressing one of the control buttons for the driver's seat, outside rearview mirror or instrument panel illumination will cause the movement of that component to stop and move in the direction that the control button is pressed.

#### **Easy Access Function**

When exiting the vehicle the driver's seat will move rearward when the engine is turned off and the shift lever in P (Park).

When entering the vehicle the driver's seat will move forward when engine Start/Stop button is in the ACC position.

You can activate or deactivate the Easy Access Function from the User Settings Mode on the LCD display.

For more information, refer to the "LCD Display" section in this chapter.

#### STEERING WHEEL

#### **Electric Power Steering (EPS)**

The system assists you with steering the vehicle. If the engine is turned off or if the power steering system becomes inoperative, you may still steer the vehicle, but it will require increased steering effort.

Should you notice any change in the effort required to steer during normal vehicle operation, have the system checked by an authorized HYUNDAI dealer.

#### **A** CAUTION

If the Electric Power Steering System does not operate normally, the warning light (⊙!) will illuminate on the instrument cluster. You may steer the vehicle, but it will require increased steering efforts. Take your vehicle to an authorized HYUNDAI dealer and have the system checked as soon as possible.

#### **i** Information

The following symptoms may occur during normal vehicle operation:

 The steering effort may be high immediately after placing the engine Start/Stop button is in the ON position.

This happens as the system performs the EPS system diagnostics. When the diagnostics are completed, the steering wheel will return to its normal condition.

- A click noise may be heard from the EPS relay after the engine Start/Stop button is in the ON/OFF position.
- Motor noise may be heard when the vehicle is at a stop or at a low driving speed.
- If the outside ambient temperature is low, when you operate the steering wheel a noise from the electric power steering may occur. As the temperature increases, the noise will disappear.

#### **Tilt Steering / Telescope 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 panel 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.

#### **A** WARNING

NEVER adjust the steering wheel while driving. This may cause loss of vehicle control resulting in an accident.



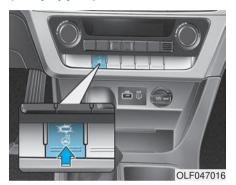
To adjust the steering wheel angle and height:

- 1. Pull down the lock-release lever (1).
- 2. Adjust the steering wheel to the desired angle (2) and height (3).
- 3. Pull up the lock-release lever to lock the steering wheel in place.

#### *i* Information

Sometimes the lock release lever may not engage completely. This may occur when the gears of the locking mechanism do not completely mesh. If this occurs, pull down on the lock-release lever, readjust the steering wheel again, and then pull back up on the release lever to lock the steering wheel in place.

# Heated Steering Wheel (if equipped)



When the engine Start/Stop button is in the ON/OFF position or when the engine is running, press the heated steering wheel button to warm the steering wheel. The indicator on the button will illuminate.

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

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

#### NOTICE

Do not install any cover or accessory on the steering wheel. The cover or accessory could cause damage to the heated steering wheel system.

#### Horn



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

#### NOTICE

Do not strike the horn severely to operate it, or hit it with your fist. Do not press on the horn with a sharp-pointed object.

#### **MIRRORS**

#### **Inside Rearview Mirror**

Before you start driving, adjust the rearview mirror to center on the view through the rear window.

#### **A** WARNING

Make sure your line of sight is not obstructed. Do not place objects in the rear seat, cargo area, or behind the rear headrests which could interfere with your vision through the rear window.

#### **A** WARNING

To prevent serious injury during an accident or deployment of the air bag, do not modify the rearview mirror and do not install a wide mirror.

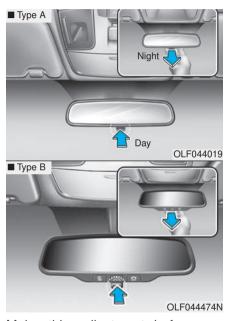
#### **A WARNING**

NEVER adjust the mirror while driving. This may cause loss of vehicle control resulting in an accident.

#### NOTICE

When cleaning the mirror, use a paper towel or similar material dampened with glass cleaner. Do not spray glass cleaner directly on the mirror as this may cause the liquid cleaner to enter the mirror housing.

# Day/night rearview mirror (if equipped)



Make this adjustment before you start driving and while the day/night lever is in the day position.

Pull the day/night lever toward you to reduce glare from the headlamps of the vehicles behind you during night driving.

Remember that you lose some rearview clarity in the night position.

#### Blue Link® center (if equipped)



For details, refer to the Blue Link® Owner's Guide, Navigation Manual or Audio Manual.

# Electric chromic mirror (ECM) with HomeLink® system, compass and Blue Link® (for U.S.A)

Your vehicle may be equipped with a Gentex Automatic-Dimming Mirror with a Z-Nav™ Electronic Compass Display and an Integrated HomeLink® Wireless Control System. During nighttime driving, this feature will automatically detect and reduce rearview mirror glare while the compass indicates the direction the vehicle is pointed. The HomeLink® Universal Transceiver allows you to activate your garage door(s), electric gate, home lighting, etc.



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

# Automatic-Dimming Night Vision Safety<sup>TM</sup> (NVS<sup>®</sup>) Mirror (if equipped)

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

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

www.gentex.com

Your mirror will automatically dim upon detecting glare from the vehicles traveling behind you. The autodimming function can be controlled by pressing the Dimming ON/OFF button:

- 1. Pressing and holding the <sup>()</sup> button for 3 seconds turns the auto-dimming function OFF which is indicated by the green Status Indicator LED turning off.
- 2. Pressing and holding the  $\circlearrowleft$  button for 3 seconds again turns the auto-dimming function ON which is indicated by the green Status Indicator LED turning on.

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

#### Z-Nav<sup>TM</sup> Compass Display

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

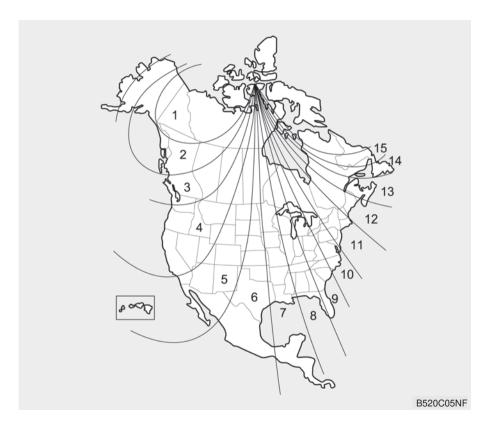
#### Compass function

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

- Press and release the O button within 1 second to turn the display feature OFF.
- 2. Press and release the  $\circ$  button again within 1 second to turn the display back ON.

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

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



To adjust the Zone setting:

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

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

If you need to recalibrate the compass:

- 1. Press and hold the  $\circlearrowleft$  button for more than 9 seconds. When the compass memory is cleared a "C" will appear in the display.
- 2. Drive the vehicle in 2 complete circles at less than 5 mph (8 km/h).

## **Integrated HomeLink® Wireless Control System**

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

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

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

#### **A** WARNING

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

## Programming HomeLink® Please note the following:

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

## Programming



To train most devices, follow these instructions:

1. For first-time programming, press and hold the two outside buttons ( ), HomeLink® Channel 1 and Channel 3, until the indicator light begins to flash (after 10 seconds). Release both buttons. Do not hold the buttons for longer than 20 seconds.



- 2. Position the end of your hand-held transmitter 1-3 inches (2-8 cm) away from the HomeLink® button you wish to program while keeping the indicator light in view.
- Simultaneously press and hold both the HomeLink® and handheld transmitter buttons until the HomeLink® indicator light changes from a slow to a rapid blinking light. Now you may release both the HomeLink® and hand-held transmitter buttons.

## Information

Some devices may require you to replace this Programming step 3 with procedures noted in the "Gate Operator/Canadian Programming" chapter. If the HomeLink® indicator light does not change to a rapidly blinking light after performing these steps, contact HomeLink® at www.homelink.com.

- 4. Firmly press, hold for 5 seconds and release the programmed HomeLink® button up to two separate times to activate the door. If the door does not activate, press and hold the just-trained HomeLink® button and observe the indicator light.
  - If the indicator light stays on constantly, programming is complete and your device should activate when the HomeLink® button is pressed and released.
  - If the indicator light blinks rapidly for 2 seconds and then turns to a constant light, continue with "Programming" steps 5-7 to complete the programming of a rolling code equipped device (most commonly a garage door opener).
- 5. At the garage door opener receiver (motor-head unit) in the garage, locate the "learn" or "smart" button. This can usually be found where the hanging antenna wire is attached to the motor-head unit.

- 6. Firmly press and release the "learn" or "smart" button. (The name and color of the button vary by manufacturer). There are 30 seconds to initiate step 7.
- 7. Return to the vehicle and firmly press, hold for 2 seconds and release the programmed HomeLink® button. Repeat the "press/hold/release" sequence a second time, and, depending on the brand of the garage door opener (or other rolling code equipped device), repeat this sequence a third time to complete the programming process.

HomeLink® should now activate your rolling code equipped device.

#### Gate operator & Canadian programming

During programming, your handheld transmitter may automatically stop transmitting. Continue to press the Integrated HomeLink® Wireless Control System button (note steps 2 through 3 in the Programming portion of this document) while you press and re-press ("cycle") your handheld transmitter every two seconds until the frequency signal has been learned. The indicator light will flash slowly and then rapidly after several seconds upon successful training.

#### Operating HomeLink®

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

## Reprogramming a single HomeLink® button

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

- 1.Press and hold the desired HomeLink® button. DO NOT release the button.
- 2. The indicator light will begin to flash after 20 seconds. Without releasing the HomeLink® button, proceed with "Programming" step 2.

For questions or comments, contact HomeLink® at <a href="https://www.homelink.com">www.homelink.com</a> or 1-800-355-3515.

## Erasing HomeLink® buttons

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

- Press and hold the two outer HomeLink® buttons until the indicator light begins to flash after 10 seconds.
- 2. Release both buttons. Do not hold for longer than 20 seconds.

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

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

FCC ID: NZLTLMHL4 IC: 4112A-TLMHL4

## Information

This device complies with Part 15 of the FCC Rules.

Operation is subject to the following three conditions:

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

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

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

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



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

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

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

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

www.gentex.com

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

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

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

#### Z-Nav<sup>TM</sup> Compass Display

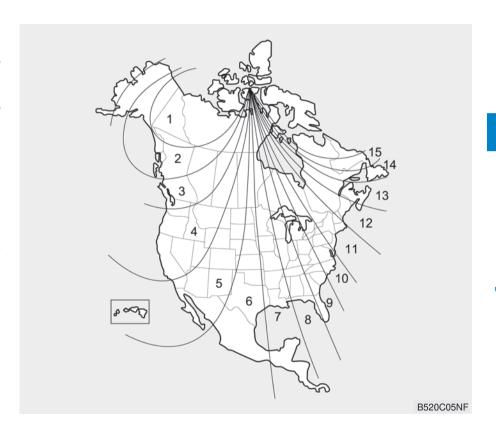
The NVS™ Mirror in your vehicle is also equipped with a Z-Nav™ Compass that shows the vehicle Compass heading in the Display Window using the 8 basic cardinal headings (N, NE, E, SE, etc.).

#### Compass function

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

- 1. Press and release the  $\circ$  button to turn the display feature OFF.
- 2. Press and release the  $\circ$  button again to turn the display back ON. Additional options can be set with press and hold sequences of the button and are detailed below.

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



To adjust the Zone setting:

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

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

If you need to recalibrate the compass:

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

## Integrated HomeLink® Wireless Control System

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

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

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

## **A** WARNING

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

## Programming HomeLink® Please note the following:

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

## Rolling code programming

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

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

To train rolling code devices, follow these instructions:

- 1. At the garage door opener receiver (motor-head unit) in the garage, locate the "learn" or "smart" button. This can usually be found where the hanging antenna wire is attached to the motor-head unit. Exact location and color of the button may vary by garage door opener brand. If there is difficulty locating the training button, reference the device owner's manual or please visit our Web site at www.homelink.com.
- 2. Firmly press and release the "learn" or "smart" button (which activates the "training light"). You will have 30 seconds to initiate step 3.

- 3. Return to the vehicle and firmly press, hold for two seconds and then release the desired HomeLink® button. Repeat the "press/hold/release" sequence a second time to complete the programming. (Some devices may require you to repeat this sequence a third time to complete the programming.)
- 4. Press and hold the just-trained HomeLink® button and observe the red Status Indicator LED. If the indicator light stays on constantly, programming is complete and your device should activate.
- 5. To program the remaining two HomeLink® buttons, follow either steps 1 through 4 above for other Rolling Code devices or steps 2 through 5 in Standard Programming for standard devices.

## Standard programming

To train most devices, follow these instructions:

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

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

#### Gate operator & Canadian programming

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

## Operating HomeLink®

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

## Reprogramming a single HomeLink® button

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

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

#### Erasing HomeLink® buttons

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

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

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

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

FCC ID: NZLZTVHL3 IC: 4112A-ZTVHL3

## *i* Information

This device complies with Part 15 of the FCC Rules.

Operation is subject to the following three conditions:

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

#### **Side View Mirrors**



Be sure to adjust mirror angles before driving.

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

The right hand side view is convex. Objects seen in the mirror are closer than they appear.

Use the rear view mirror inside the vehicle or direct observation to determine the actual distance of following vehicles when changing lanes.

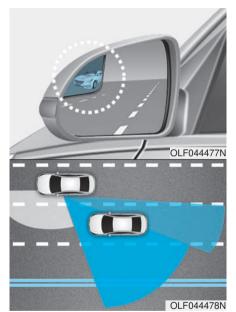
## **A WARNING**

Do not adjust or fold the left and right side view mirrors while driving. This may cause loss of vehicle control resulting in an accident.

## **A** CAUTION

- 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 spray. (Do not use radiator anti-freeze.) Wipe the mirror using a sponge or soft cloth with warm water. Or move the vehicle to a warm area and allow the ice to melt.

## Blind Spot Mirror (if equipped)



The Blind Spot Mirror (BSM) is a supplemental mirror that minimizes the driver's blind spot zone by expanding the field of view on the rear side of the vehicle. The blind spot mirror is equipped on the driver's left side view mirror.

## **A** WARNING

- Always check the road condition while driving for unexpected situations even though the vehicle is equipped with a blind spot mirror.
- The blind zone mirror is a device made for convenience.
   Do not solely rely on the mirror but always pay attention to traffic around you.

#### NOTICE

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

#### Side view mirror adjustment



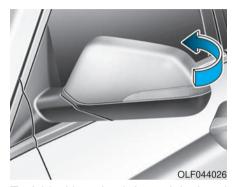
Adjusting the left and right side view mirrors:

- Move the lever (1) towards the L(Left) or R(Right) to select the rearview mirror you would like to adjust.
- 2. Use the mirror adjustment control switch to position the selected mirror up, down, left or right.
- 3. After adjustment, place the lever (1) in the center to prevent inadvertent adjustment.

#### NOTICE

- The mirrors stop moving when they reach the maximum adjusting angles, but the motor continues to operate while the switch is pressed. Do not press the switch longer than necessary, the motor may be damaged.
- Do not attempt to adjust the side view mirror by hand or the motor may be damaged.

## Folding the side view mirrors



To fold either the left or right hand side view mirror, grasp the housing of the mirror and then fold it toward the rear of the vehicle.

## **Reverse Parking Aid Function**



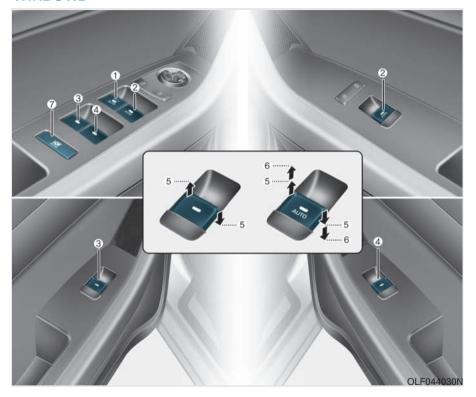
When you move the shift lever to the R (Reverse) position, the outside rearview mirror(s) will rotate downwards to aid with driving in reverse. The position of the outside rearview mirror switch (1) determines whether or not the mirrors will move:

Left/Right: When either the L (Left) or R (Right) switch is selected, both outside rearview mirrors will move.

Neutral: When neither switch is selected, the outside rearview mirrors will not move. The outside rearview mirrors will automatically revert to their original positions if any of the following occur:

- Engine Start/Stop button is placed to the ACC or OFF position.
- The shift lever is moved to any position except R (Reverse).
- The remote control outside rearview mirror switch is not selected.

## **WINDOWS**



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

#### **Power Windows**

Engine Start/Stop button must be in the ON position to be able to raise or lower the windows. Each door has a Power Window switch to control that door's window. The driver has a Power Window Lock switch which can block the operation of passenger windows. The power windows will operate for approximately 30 seconds after engine Start/Stop button is in the ACC or OFF position. However, if the front doors are opened, the Power Windows cannot be operated even within the 30 second period.

## **A WARNING**

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

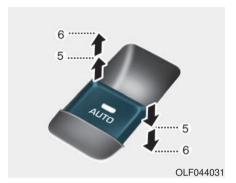
## **A** WARNING

Do not install any accessories in the area of windows. It may impact jam protection.

## **i** Information

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

## Window opening and closing



#### To open:

Press the window switch down to the first detent position (5). Release the switch when you want the window to stop.

#### To close:

Pull the window switch up to the first detent position (5). Release the window switch when you want the window to stop.

## Auto up/down window (if equipped)

Pressing or pulling up the power window switch momentarily to the second detent position (6) completely lowers or lifts the window even when the switch is released. To stop the window at the desired position while the window is in operation, pull up or press down and release the switch.

## To reset the power windows

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

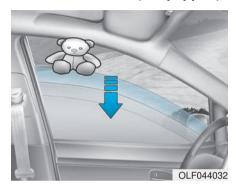
- 1. Place engine Start/Stop button is in the ON position.
- Close the window and continue pulling up on the power window switch for at least one second.

If the power windows do not operate properly after resetting, have the system checked by an authorized HYUNDAI dealer.

## **A** WARNING

The automatic reverse feature doesn't activate while resetting power window system. Make sure body parts or other objects are safely out of the way before closing the windows to avoid injuries or vehicle damage.

## Automatic reverse (if equipped)



If a window senses any obstacle while it is closing automatically, it will stop and lower approximately 12 inches (30 cm) to allow the object to be cleared.

If the window detects the resistance while the power window switch is pulled up continuously, the window will stop upward movement then lower approximately 1 inch (2.5 cm).

If the power window switch is pulled up continuously again within 5 seconds after the window is lowered by the automatic window reversal feature, the automatic window reversal will not operate.

## *i* Information

The automatic reverse feature is only active when the "Auto Up" feature is used by fully pulling up the switch to the second detent.

## **A** WARNING

Make sure body parts or other objects are safely out of the way before closing the windows to avoid injuries or vehicle damage. Objects less than 0.16 inch (4 mm) in diameter caught between the window glass and the upper window channel may not be detected by the automatic reverse window and the window will not stop and reverse direction.

#### NOTICE

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

#### Power window lock switch



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

When the power window lock switch is pressed:

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

## **A WARNING**

Do not allow children to play with the power windows. Keep the driver's door power window lock switch in the LOCK position. Serious injury or death can result from unintentional window operation by a child.

#### NOTICE

- To prevent possible damage to the power window system, do not open or close two windows or more at the same time. This will also ensure the longevity of the fuse.
- Never try to operate the main switch on the driver's door and the individual door window switch in opposite directions at the same time. If this is done, the window will stop and cannot be opened or closed.

## PANORAMA SUNROOF (IF EQUIPPED)



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

The Engine Start/Stop button must be in the ON position before you can open or close the sunroof.

The sunroof can be operated for approximately 30 seconds after the ignition key is removed or turned to the ACC or LOCK (or OFF) position. However, if the front doors are opened, the sunroof cannot be operated even within the 30 seconds.

## **i** Information

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

## **A** WARNING

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

## (Continued)

Unattended children could operate the sunroof, which could result in serious injury.

- The panorama sunroof is made of glass, subject to break in case of accident. Passengers without the appropriate protection(e.g. seat belt, CRS, etc.) on may project out through the broken glasses and get seriously injured or even result in death.
- Do not sit on the top of the vehicle. It may cause injuries or vehicle damage.

## NOTICE

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

#### Sunshade



- To open the sunshade, press the sunshade control switch (1).
- To close the sunshade, press the sunshade control switch (2). If you press the switch when the sunroof glass is opened, the sunroof glass will close then the sunshade will close.

To stop the sliding at any point, press the sunshade control switch momentarily.

## Sliding the sunroof

When the sunshade is closed



If you pull the sunroof control lever backward, the sunshade will slide all the way open then the sunroof glass will slide all the way open. To stop the sunroof movement at any point, pull or push the sunroof control lever momentarily.

## When the sunshade is opened

If you pull the sunroof control lever backward, the sunroof glass will slide all the way open. To stop the sunroof movement at any point, pull or push the sunroof control lever momentarily.

## **i** Information

Only the front glass of the panorama sunroof opens and closes.

## Tilting the sunroof

#### When the sunshade is closed



If you push the sunroof control lever upward, the sunshade will slide open then the sunroof glass will tilt.

To stop the sunroof movement at any point, pull or push the sunroof control lever momentarily.

## When the sunshade is opened

If you push the sunroof control lever upward, the sunroof glass will tilt.

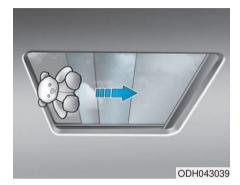
To stop the sunroof movement at any point, pull or push the sunroof control lever momentarily.

## **Closing the sunroof**



Press the sunshade CLOSE button. The sunroof glass will close then the sunshade will close. To stop the sunroof movement at any point, press the sunshade control switch momentarily. If you want to close the sunroof glass only, push the sunroof control lever. The sunroof glass will close and the sunshade will not close. To stop the sunroof movement at any point, pull or push the sunroof control lever momentarily.

#### Automatic reverse



If an object or part of the body is detected while the sunroof glass or sunshade is closing automatically, it will reverse the direction, and then stop.

The auto reverse function does not work if a tiny obstacle is between the sliding glass or sunshade and the sunroof sash. You should always check that all passengers and objects are away from the sunroof before closing it.

## **A** WARNING

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

#### NOTICE

- Periodically remove any dirt that may accumulate on the sunroof guide rail or between the sunroof and roof panel, which can make a noise.
- Do not try to open the sunroof when the temperature is below freezing or when the sunroof is covered with snow or ice, otherwise the motor could be damaged. In cold and wet climates, the sunroof may not work properly.

## Resetting the sunroof



Sunroof needs to be reset if (in the followings)

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

- Turn hybrid system on and close the sunroof glass and sunshade completely.
- 2. Release the control lever.
- Push the sunroof control lever forward in the direction of close (about 10 seconds) until the sunroof slightly moves. Then, release the lever.
- 4. Push the sunroof control lever forward in the direction of close until the sunroof operates as follows:

Sunshade Open → Glass Tilt Open → Glass Slide Open → Glass Slide Close → Sunshade Close

Then, release the control lever.

When this is complete, the sunroof system is reset.

For more information, contact an authorized HYUNDAI dealer.

## *i* Information

If the sunroof does not reset when the vehicle battery is disconnected or discharged or related fuse is blown, the sunroof may not operate normally.

## EXTERIOR FEATURES Hood

## Opening the hood



- 1. Park the vehicle and set the parking brake.
- 2. Pull the release lever to unlatch the hood. The hood should pop open slightly.



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

## Hood open warning (if equipped)

The warning message will appear on the LCD display when hood is open. The warning chime will operate when the vehicle is being driven at or above 3km/h with the hood open.

#### Closing the hood

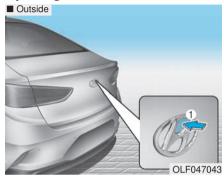
- 1. Before closing the hood, check the following:
  - All filler caps in engine compartment must be correctly installed.
  - Gloves, rags or any other combustible material must be removed from the engine compartment.
- Lower the hood halfway (lifted approximately 30cm from the closed position) and push down to securely lock in place. Then double check to be sure the hood is secure.

## **A WARNING**

- Before closing the hood, ensure all obstructions are removed from around hood opening.
- Always double check to be sure that the hood is firmly latched before driving away. Check there is no hood open warning light or message displayed on the instrument cluster. Driving with the hood opened may cause a total loss of visibility, which might result in an accident.
- Do not move the vehicle with the hood in the raised position, as vision is obstructed, which might result in an accident, and the hood could fall or be damaged.

#### **Trunk**

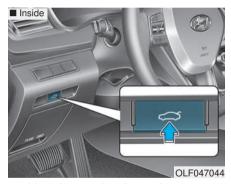
## Opening the trunk



- 1. Make sure the shift lever is in P (Park) and set the parking brake.
- 2. Then do one of the following:
  - Press the button (1) on the trunk handle after locking or unlocking the door by smart key.
  - Press the trunk unlock button of smart key for more than 1 second.
  - Press the button (1) on the trunk itself with the Smart Key in your possession.

## **!** CAUTION

The button (1) on the trunk handle is made of the rubber. Do not press it with the sharp objects such as the key, screwdriver or drill.



- Use the trunk release button.
- 3. Lift the trunk lid up.

## Closing the trunk

Lower the trunk lid and press down until it locks.

## **A** WARNING

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

#### **A** WARNING

Make sure there are no people or objects around the trunk before opening or closing the Power Trunk. Wait until the trunk is open fully and stopped before loading or unloading cargo from the vehicle.

#### NOTICE

To prevent damage to the trunk lift cylinders and the attached hardware, always close the trunk before driving.

## **i** Information

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

## Emergency trunk safety release



Your vehicle is equipped with an Emergency Trunk Safety Release lever located inside the trunk. When someone is inadvertently locked in the trunk, the trunk can be opened by moving the lever in the direction of the arrow and pushing the trunk open.

## **A WARNING**

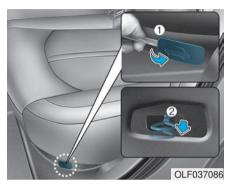
- You and your passengers must be aware of the location of the Emergency Trunk Safety Release lever in this vehicle and how to open the trunk in case you are accidentally locked in the trunk.
- NEVER allow anyone to occuby the trunk of the vehicle at any time. If the trunk is partially or totally latched and the person is unable to get out. serious injury or death could occur due to lack of ventilation, exhaust fumes and rapid heat build-up, or because of exposure to cold weather conditions. The trunk is also a highly dangerous location in the event of a crash because it is not a protected occupant space but is a part of the vehicle's crush zone.

(Continued)

#### (Continued)

- Your vehicle should be kept locked and the Smart Key should be kept out of the reach of children. Parents should teach their children about the dangers of playing in trunks.
- Use the release lever for emergencies only.

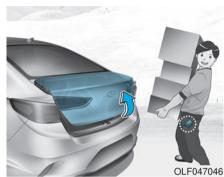
#### Inside the vehicle



When you can not unlock the trunk due to battery discharge or other reasons, you can unlock the trunk inside the vehicle.

Open the cable cover(1) under the rear seat with a mechanical key and pull the cable (2) for unlocking the trunk.

## **Smart Trunk (if equipped)**



On a vehicle equipped with a smart key, the trunk can be opened with hands-free activation using the Smart Trunk system.

#### How to use the Smart Trunk

The trunk can be opened with notouch activation satisfying all the conditions below.

- After 15 seconds when all doors are closed and locked
- Positioned in the detecting area for more than 3 seconds.

## Information

The Smart trunk will NOT operate when:

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



#### 1. Setting

To activate the Smart Trunk, go to User Settings Mode and select Smart Trunk on the LCD display.

For more information, refer to the "LCD Display" section in this chapter.



2. Detect and Alert

The Smart Trunk detecting area extends approximately 20~40 in (50~100 cm) behind the vehicle. If you are positioned in the detecting area and are carrying the smart key, the hazard warning lights will blink and the chime will sound to alert you that the smart trunk will open.

## Information

Do not approach the detecting area if you do not want the trunk to open. If you have unintentionally entered the detecting area and the hazard warning lights and chime starts to operate, leave the detecting area with the smart key. The trunk will stay closed.



3. Automatic opening

The hazard warning lights will blink and chime will sound 6 times and then the trunk will open.

#### **A** WARNING

- Make sure you close the trunk before driving your vehicle.
- Make sure there are no people or objects around the trunk before opening or closing the trunk.
- Make sure objects in the trunk do not come out when opening the trunk on a slope. It may cause serious injury.
- Make sure to deactivate the Smart Trunk when washing your vehicle. Otherwise, the trunk may open inadvertently.
- The key should be kept out of reach of children. Children may inadvertently open the Smart Trunk while playing around the rear area of the vehicle.

## How to deactivate the Smart Trunk function using the smart key



- 1. Door lock
- 3. Trunk open
- 2. Door unlock 4. Panic

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

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

## Information

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

#### Detecting area



- OLF047050N
- The Smart trunk detecting area extends approximately 20-40 in (50-100 cm) behind the vehicle. If you are positioned in the detecting area and are carrying the smart key, the hazard warning lights will blink and the chime will sound for about 3 seconds to alert you that the smart trunk will open.
- The alert stops once the smart key is moved outside of the detecting area within the 3 second period.

## Information

- The Smart Trunk function will not work if any of the following occurs:
  - The smart key is close to a radio transmitter such as a radio station or an airport which can interfere with normal operation of the transmitter.
  - The smart key is near a mobile two way radio system or a cellular phone.
  - Another vehicle's smart key is being operated close to your vehicle.
- The detecting range may decrease or increase when:
  - One side of the tire is raised to replace a tire or to inspect the vehicle.
  - The vehicle is parked on a slope or unpaved road, etc.

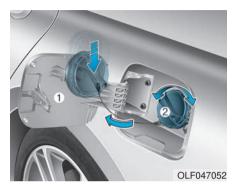
## **Fuel Filler Door (Hybrid)**

## Opening the fuel filler door



The fuel filler door must be opened from inside the vehicle by pushing the fuel filler door opener button.

- 1 Turn the engine off.
- Push the fuel filler door opener button.



- 3. Pull the fuel filler door (1) outward to access the fuel tank cap.
- To remove the fuel tank cap (2), turn it counterclockwise. You may hear a hissing noise as the pressure inside the tank equalizes.
- 5. Place the cap on the fuel filler door.

## **i** Information

If the fuel filler door does not open because ice has formed around it, tap lightly or push on the door to break the ice and release the door. Do not pry on the door. If necessary, spray around the door with an approved deicer fluid (do not use radiator antifreeze) or move the vehicle to a warm place and allow the ice to melt.

## Closing the fuel filler door

- 1. To install the fuel tank cap, turn it clockwise until it "clicks" one time.
- 2. Close the fuel filler door until it is latched securely.

#### **A WARNING**

Gasoline is highly flammable and explosive. Failure to follow these guidelines may result in SERIOUS INJURY or DEATH:

- Read and follow all warnings posted at the gas station.
- Before refueling, note the location of the Emergency Gasoline Shut-Off, if available, at the gas station.
- Before touching the fuel nozzle, you should eliminate the potential build-up of static electricity by touching a metal part of the vehicle, a safe distance away from the fuel filler neck, nozzle, or other gas source, with your bare hand.

(Continued)

## (Continued)

- Do not use cellular phones while refueling. Electric current and/or electronic interference from cellular phones can potentially ignite fuel vapors and cause a fire.
- Do not get back into a vehicle once you have begun refueling. You can generate a buildup of static electricity by touching, rubbing or sliding against any item or fabric capable of producing static electricity. Static electricity discharge can ignite fuel vapors causing a fire. If you must re-enter the vehicle, you should once again eliminate potentially dangerous static electricity discharge by touching a metal part of the vehicle, away from the fuel filler neck, nozzle or other gasoline source, with your bare hand.
- When using an approved portable fuel container, be sure to place the container on the ground prior to refueling.

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#### (Continued)

Static electricity discharge from the container can ignite fuel vapors causing a fire.

Once refueling has begun, contact between your bare hand and the vehicle should be maintained until the filling is complete.

- Use only approved portable plastic fuel containers designed to carry and store gasoline.
- When refueling, always move the shift lever to the P (Park) position, set the parking brake, and place engine Start/Stop button to the OFF position. Sparks produced by electrical components related to the engine can ignite fuel vapors causing a fire.
- Do not use matches or a lighter and do not smoke or leave a lit cigarette in your vehicle while at a gas station, especially during refueling.

(Continued)

#### (Continued)

- Do not over-fill or top-off your vehicle tank, which can cause gasoline spillage.
- If a fire breaks out during refueling, leave the vicinity of the vehicle, and immediately contact the manager of the gas station and then contact the local fire department. Follow any safety instructions they provide.
- If pressurized fuel sprays out, it can cover your clothes or skin and thus subject you to the risk of fire and burns. Always remove the fuel cap carefully and slowly. If the cap is venting fuel or if you hear a hissing sound, wait until the condition stops before completely removing the cap.
- Always check that the fuel cap is installed securely to prevent fuel spillage in the event of an accident.

## **i** Information

Make sure to refuel your vehicle according to the "Fuel Requirements" suggested in the Introduction chapter.

#### NOTICE

- Do not spill fuel on the exterior surfaces of the vehicle. Any type of fuel spilled on painted surfaces may damage the paint.
- If the fuel filler cap requires replacement, use only a genuine HYUNDAI cap or the equivalent specified for your vehicle. An incorrect fuel filler cap can result in a serious malfunction of the fuel system or emission control system.

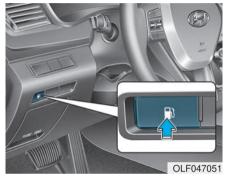
## Emergency fuel filler door release



If the fuel filler door does not open using the remote fuel filler door release button, you can open it manually. Pull the handle of the release located on the left side of the luggage compartment outward slightly.

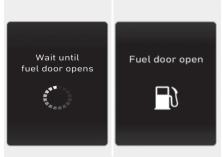
## Fuel Filler Door (Plug-in hybrid)

## Opening the fuel filler door



The fuel filler door must be opened from inside the vehicle by pushing the fuel filler door opener button.

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



OI FH047784N/OI FH047785N

3. Wait until the fuel tank is depressurized.

The message is displayed when the fuel filler door opens after the fuel tank is depressurized.

## **i** Information

- It may take up to 20 seconds to open fuel filler door.
- When the fuel filler door is frozen and does not open after 20 seconds at freezing temperature, slightly tap the fuel filler door and then attempt to open it.



- 4. Pull the fuel filler door (1) out to fully open.
- To remove the fuel tank cap (2), turn it counterclockwise. You may hear a hissing noise as the pressure inside the tank equalizes.
- 6. Place the cap on the fuel filler door.

## **A** WARNING

- Add fuel into the fuel tank within 20 minutes after opening the fuel filler door. After 20 minutes, the fuel tank may shut off, causing fuel to overflow. In this case, re-press the fuel filler door opening button.
- Do not leave the fuel filler door opened for an extended period of time. It may discharge the battery.
- Close the fuel filler door after fueling the vehicle. If you start the vehicle with the fuel filler door opened, the message, "Check fuel lid", illuminates on the LCD display.
- Avoid refueling the vehicle while charging the (high-voltage) hybrid battery. It may cause a fire or an explosion due to static electricity.

## Closing the fuel filler door

- 1. To install the fuel tank cap, turn it clockwise until it "clicks" one time.
- 2. Close the fuel filler door until it is latched securely.

## **A WARNING**

Gasoline is highly flammable and explosive. Failure to follow these guidelines may result in SERIOUS INJURY or DEATH:

- Read and follow all warnings posted at the gas station.
- Before refueling, note the location of the Emergency Gasoline Shut-Off, if available, at the gas station.
- Before touching the fuel nozzle, you should eliminate the potential build-up of static electricity by touching a metal part of the vehicle, a safe distance away from the fuel filler neck, nozzle, or other gas source, with your bare hand.

(Continued)

#### (Continued)

- Do not use cellular phones while refueling. Electric current and/or electronic interference from cellular phones can potentially ignite fuel vapors and cause a fire.
- Do not get back into a vehicle once you have begun refueling. You can generate a buildup of static electricity by touching, rubbing or sliding against any item or fabric capable of producing static electricity. Static electricity discharge can ignite fuel vapors causing a fire. If you must re-enter the vehicle, you should once again eliminate potentially dangerous static electricity discharge by touching a metal part of the vehicle, away from the fuel filler neck, nozzle or other gasoline source, with your bare hand.
- When using an approved portable fuel container, be sure to place the container on the ground prior to refueling.

(Continued)

#### (Continued)

Static electricity discharge from the container can ignite fuel vapors causing a fire.

Once refueling has begun, contact between your bare hand and the vehicle should be maintained until the filling is complete.

- Use only approved portable plastic fuel containers designed to carry and store gasoline.
- When refueling, always move the shift lever to the P (Park) position, set the parking brake, and place engine Start/Stop button to the OFF position. Sparks produced by electrical components related to the engine can ignite fuel vapors causing a fire.
- Do not use matches or a lighter and do not smoke or leave a lit cigarette in your vehicle while at a gas station, especially during refueling.

(Continued)

#### (Continued)

- Do not over-fill or top-off your vehicle tank, which can cause gasoline spillage.
- If a fire breaks out during refueling, leave the vicinity of the vehicle, and immediately contact the manager of the gas station and then contact the local fire department. Follow any safety instructions they provide.
- If pressurized fuel sprays out, it can cover your clothes or skin and thus subject you to the risk of fire and burns. Always remove the fuel cap carefully and slowly. If the cap is venting fuel or if you hear a hissing sound, wait until the condition stops before completely removing the cap.
- Always check that the fuel cap is installed securely to prevent fuel spillage in the event of an accident.

## **i** Information

Make sure to refuel your vehicle according to the "Fuel Requirements" suggested in the Introduction chapter.

#### NOTICE

- Do not spill fuel on the exterior surfaces of the vehicle. Any type of fuel spilled on painted surfaces may damage the paint.
- If the fuel filler cap requires replacement, use only a genuine HYUNDAI cap or the equivalent specified for your vehicle. An incorrect fuel filler cap can result in a serious malfunction of the fuel system or emission control system.

## Emergency fuel filler door release



If the fuel filler door does not open using the remote fuel filler door release button, you can open it manually. Pull the handle of the release located on the left side of the luggage compartment outward slightly. In this case, slowly open the fuel tank cap, because the fuel tank may be highly pressurized. If fuel leaks out, or if air hisses out, wait until it disappears, open the fuel tank cap, and slowly refuel the vehicle. If you quickly pour fuel into the fuel tank, the fuel may overflow out of the fuel tank.

## **INSTRUMENT CLUSTER**





- 1. Hybrid system gauge
- 2. Speedometer
- 3. Battery SOC (State of Charge) gauge
- 4. Fuel gauge
- 5. Warning and indicator lights
- 6. LCD display (including Trip computer)

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

OLFH047100N/OLFH047101N

### ■ Plug-in hybrid



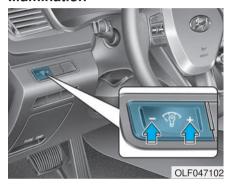
- 1. Hybrid system gauge
- 2. Speedometer
- 3. Battery SOC (State of Charge) gauge
- 4. Fuel gauge
- 5. Warning and indicator lights
- 6. LCD display (including Trip computer)

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

OLFP047101N

#### Instrument cluster control

#### Adjusting Instrument Panel Illumination



The brightness of the instrument cluster illumination can be adjusted by pressing the illumination control buttons ("+" or "-"), when the Engine Start/Stop button is ON, or when the parking lights are turned ON.

When pressing the illumination control button, the interior switch illumination intensity is also adjusted. The selected brightness of illumination can be saved in the Driver Position Memory System (if equipped).

For more information, refer to "Driver Position Memory System" in this chapter.

## **A** 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 property damage.



OI F047142N

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

## Gauges

## Speedometer



The speedometer indicates the driving speed, calibrated in miles per hour (mph) and/or kilometers per hour (km/h).

## Hybrid System Gauge



The hybrid system gauge indicates whether the current driving condition is fuel efficient or not.

#### · CHARGE:

Shows that the energy made by the vehicle is being converted to electrical energy. (Regenerated energy)

#### • ECO :

Shows that the vehicle is being driven in an Eco-friendly manner.

#### • POWER:

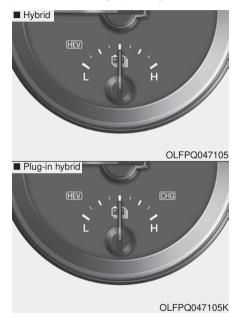
Shows that the vehicle is exceeding the Eco-friendly range.

## *i* Information

Accordance to the hybrid system gauge area the "EV" indicator comes on or off.

- "EV" indicator ON: Vehicle is driven using the electric motor or the gasoline engine is stopped.
- "EV" indicator OFF: Vehicle is driven using the gasoline engine.

## Hybrid Battery SOC (State of Charge) Gauge



This gauge indicates the remaining hybrid battery power. If the SOC is near the "L (Low)" level, the vehicle automatically operates the engine to charge the battery.

However, if the Service Indicator ( and Malfunction Indicator Lamp (MIL) ( and turn on when the SOC gauge is near the "L (Low)" level, have the vehicle checked by an authorized HYUNDAI dealer.

### NOTICE

Never try to start the vehicle if the fuel tank is empty. In this condition, the engine cannot charge the high voltage battery of the hybrid system. If you try to start the vehicle when the fuel is empty, the high voltage battery will become discharged and damaged.

## Plug-in hybrid mode indicator

• CD (Charge Depleting, Electric) mode



:The high-voltage (hybrid) battery is used to drive the vehicle.

• CS (Charge Sustaining, Hybrid) mode



: The high-voltage (hybrid) battery and gasoline engine is used to drive the vehicle.

HEV-charging mode



Gasoline engine is used to drive the vehicle and charge the high-voltage (hybrid) battery

A corresponding message is displayed to indicate the selected mode.





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### Fuel Gauge



This gauge indicates the approximate amount of fuel remaining in the fuel tank.

## **i** Information

- The fuel tank capacity is specified in chapter 8.
- The fuel gauge is supplemented by a low fuel warning light, which will illuminate when the fuel tank is nearly empty.
- On inclines or curves, the fuel gauge pointer may fluctuate or the low fuel warning light may come on earlier than usual due to the movement of fuel in the tank.

## **A** WARNING

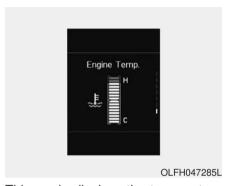
Running out of fuel can expose vehicle occupants to danger.

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

### NOTICE

Avoid driving with an extremely low fuel level. Running out of fuel could cause the engine to misfire, damaging the catalytic converter.

## Engine coolant temperature



This mode displays the temperature of the engine coolant when the engine is running.

#### NOTICE

When the gauge indicator gets out of the normal range, toward the "H" position, it indicates overheating of the engine. It may damage the engine.

Do not continue driving with the overheated engine. For further information, refer to "If the Engine Overheats" in the chapter 6.

## **!** CAUTION

Never remove the radiator cap or reservoir cap when the engine is hot. The engine coolant is under pressure and could severely burn. Wait until the engine is cool before adding coolant to the reservoir.

## Outside temperature gauge



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

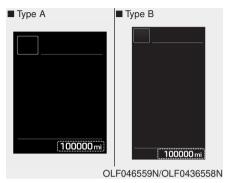
- Temperature range : -40°F ~ 140°F (-40°C ~ 60°C)

The outside temperature on the display may not change immediately like a general thermometer to prevent the driver from being inattentive. To change the temperature unit from °F to °C or °C to °F, it can be selected by one of the following methods:

- Go to User Settings Mode → Other Features → Temperature Unit.
- Press the AUTO button for 3 seconds while pressing the OFF button. (Automatic climate control system)

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

#### Odometer



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

 Odometer range: 0 ~ 999999 miles or kilometers.

## Warning and indicator lights

### Ready Indicator



#### This indicator illuminates:

When the vehicle is ready to be driven.

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

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

#### Service Warning Light



This warning light illuminates:

- When the Engine Start/Stop button is in the ON position.
  - It normally flashes on momentarily for 3 seconds at Ready On and should then stay off.
- When there is a problem with the hybrid vehicle control system or hardware.

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

#### EV Mode Indicator



### Air bag Warning Light



## Seat Belt Warning Light



This indicator illuminates when the vehicle is driven by the electric motor.

Charging Cable Connection Indicator (Plug-in hybrid)



This indicator illuminates in red when the charging cable is connected.

This warning light illuminates:

- When the Engine Start/Stop button is in the ON position.
  - It illuminates for approximately 6 seconds and then goes off.
- When there is a malfunction with the SRS, have the vehicle inspected by an authorized HYUNDAI dealer.

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

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

## Parking Brake & Brake Fluid Warning Light



## This warning light illuminates:

- When the Engine Start/Stop button is in the ON position
  - It illuminates for approximately 3 seconds and then goes off.
  - It remains on if the parking brake is applied.
- · When the parking brake is applied.
- When the brake fluid level in the reservoir is low.
  - If the warning light illuminates with the parking brake released, it indicates the brake fluid level in reservoir is low.
- When the regenerative brake does not operate.
- When only one of the dual system is working, the stopping distance will be increased

If the brake fluid level in the reservoir is low:

- 1. Drive carefully to the nearest safe location and stop your vehicle.
- 2. Stop the vehicle, immediately check the brake fluid level and add fluid, if necessary (For more information, refer to "Brake Fluid" in the chapter 7). Then check all brake components for fluid leaks. When any leak in the brake system is still detected, when the warning light remains ON, or when the brakes do not properly operate, do not drive the vehicle.

Have the vehicle towed to an authorized HYUNDAI dealer and inspected.

## **Dual-diagonal braking system**

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

With only one of the dual systems working, longer pedal travel and greater pedal pressure should be required.

Also, the vehicle will not stop in a short distance only with one of the brake systems.

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

### **A** WARNING

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

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

## Regenerative Brake Warning Light





#### This warning light illuminates:

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

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

## **A** WARNING

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

## Anti-lock Brake System (ABS) Warning Light



This warning light illuminates in one of the following situations:

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

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

## Electronic Brake force Distribution (EBD) System Warning Light





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

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

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

## **A** WARNING

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

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

Have the vehicle inspected by an authorized HYUNDAI dealer as soon as possible.

## Information

When the ABS warning light illuminates, or when both the ABS and the Parking Brake & Brake Fluid warning lights illuminate, the speedometer, the odometer, or the tripmeter may not properly operate. Also, the EPS warning light may illuminate and the steering effort may increase or decrease.

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

## Electronic Parking Brake (EPB) Warning Light (if equipped)

**EPB** 

This warning light illuminates:

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

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

## *i* Information

The Electronic Parking Brake (EPB) warning light may illuminate, when the Electronic Stability Control (ESC) indicator illuminates due to ESC malfunction (This does not indicate EPB malfunction).

## Malfunction Indicator Lamp (MIL)



This warning light illuminates in one of the following situations:

- When you turn ON the Engine Start/Stop button.
  - It remains on until the engine is started.
- When there is a malfunction with the emission control system.

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

### NOTICE

Driving with the Malfunction Indicator Lamp (MIL) on may cause damage to the emission control systems which could affect drivability and/or fuel economy.

#### NOTICE

ble.

When the Malfunction Indicator Lamp (MIL) illuminates, the catalytic converter is possibly damaged, resulting in loss of engine power. In this case, have the vehicle inspected by an authorized HYUNDAI dealer as soon as possi-

## Charging System Warning Light



When this warning light illuminates while running the engine, the battery is not being charged. Immediately turn OFF all electrical accessories. Try not to use electrically operated controls, such as the power windows. Keep running the engine.

Have the vehicle inspected by an authorized HYUNDAI dealer as soon as possible.

## Engine Oil Pressure Warning Light



This warning light illuminates:

- When the Engine Start/Stop button is in the ON position.
  - It remains on until the engine is started.
- When the engine oil pressure is low.

When the engine oil pressure is low, follow the below procedures:

- 1. Carefully drive to the nearest safe location and stop your vehicle.
- 2.Turn OFF the engine and check the engine oil level (For more information, refer to the "Engine Oil" in the chapter 7). If the level is low, add engine oil.

When the warning light remains ON after adding engine oil and restarting the engine, or when engine oil refilling is unavailable, turn OFF the engine. These indicate a mechanical problem, which needs to be repaired before driving.

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

## NOTICE

When the Engine Oil Pressure Warning Light illuminates, turn OFF the engine, and check the engine oil level, in an attempt to prevent severe engine damage. These should be done as soon as it is safe to do so. When the oil level is low, add the engine oil to the proper level and start the engine again. When the light stays ON, while running the engine, immediately turn OFF the engine. In this case, have your vehicle inspected by an authorized HYUNDAI dealer.

## Low Fuel Level Warning Light



This warning light illuminates: When the fuel tank is nearly empty. Add fuel as soon as possible.

#### NOTICE

- Driving with the Low Fuel Level warning light on or with the fuel level below "E (Empty)" may cause the engine to misfire and damage the catalytic converter.
- Driving the vehicle in EV mode after fuel runs out may damage the hybrid battery.

### Master Warning Light

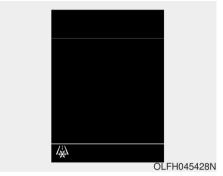


This warning light illuminates in one of the following situations:

- · When washer fluid level is low.
- When there is a problem with the Smart Cruise Control (SCC).
- When there is a problem with the Blind Spot Detection (BSD).
- When there is a problem with the Tire Pressure Monitoring System (TPMS).

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

## Icy road warning light (if equipped)



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

When the temperature on the outside temperature gauge is approximately below 40°F (4°C), the Icy Road Warning Light and Outside Temperature Gauge blinks 10 times, and then illuminates. Also, the warning chime sounds 3 times.

## **i** Information

If the icy road warning light appears while driving, you should drive more attentively and safely refraining from over-speeding, rapid acceleration, sudden braking or sharp turning, etc.

## Overspeed Warning Light (if equipped)

120 km/h

## Electronic Stability Control (ESC) Indicator



### Electronic Stability Control (ESC) OFF Indicator



## This warning light blinks:

- When you drive the vehicle more than 120 km/h.
  - This is to prevent you from driving your vehicle with overspeed.
  - The overspeed warning chime also sound for approximately 5 seconds.

#### This indicator illuminates:

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

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

## This indicator blinks: While the ESC is operating.

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

#### This indicator illuminates:

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

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

## Electric Power Steering (EPS) Warning Light



#### Immobilizer Indicator



This warning light illuminates:

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

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

This indicator illuminates up to 30 seconds:

- When the vehicle detects the smart key in the vehicle with the Engine Start/Stop button in the ACC or ON position.
  - You can start the vehicle.
  - The indicator light goes off after starting the vehicle.

This indicator blinks for a few seconds:

- When the smart key is not in the vehicle.
  - You cannot start the vehicle.

This indicator illuminates for 2 seconds and goes off:

 When the Smart Key is not detected inside the vehicle, when the Engine Start/Stop button is in the ON position.

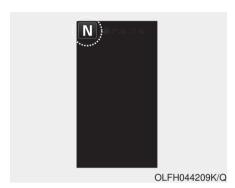
In this case, have the vehicle inspected by an authorized HYUNDAI dealer.

#### This indicator blinks:

- When the Smart Key battery is weak.
  - In this case, you cannot start the engine. However, by pressing the Engine Start/Stop button with the smart key, you may start the engine. (For more information, refer to "Starting the Vehicle" in the chapter 5).
- When there is a malfunction with the immobilizer system.

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

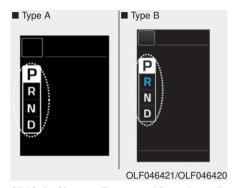
## Automatic Transmission Shift Indicator



This indicator displays where the automatic transmission shift lever is located.

Park : PReverse : RNeutral : NDrive : D

Manual Shift Mode: 1, 2, 3, 4, 5, 6



Shift indicator Pop-up (if equipped) The pop-up displays the current shift indicator selected for 2 seconds (P/R/N/D).

## Turn Signal Indicator



#### This indicator blinks:

When you operate the turn signal indicator light.

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

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

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

#### High Beam Indicator



### **Light ON Indicator**



### Cruise Indicator Light

**CRUISE** 

#### This indicator illuminates:

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

### Smart High Beam indicator (if equipped)



#### This warning light illuminates:

- When the high-Beam is on with the light switch in the AUTO light position.
- If your vehicle detects oncoming or preceding vehicles, the Smart High Beam system will switch the high beam to low beam automatically.

For more information, refer to "Smart High Beam" in this chapter.

#### This indicator illuminates:

When the tail lights and headlights are on.

#### This indicator illuminates:

 When the cruise control system is ON.

For more information, refer to "Cruise Control System" in chapter 5.

#### Cruise SET Indicator

**SET** 

#### This indicator illuminates:

 When the cruise control speed is set.

For more information, refer to "Cruise Control System" in chapter 5.

### **AUTO HOLD Indicator**

AUTO HOLD

## SPORT Mode Indicator (if equipped)

**SPORT** 

#### ECO Mode Indicator

**ECO** 

#### This indicator illuminates:

- [White] When you activate the auto hold system by pressing the AUTO HOLD button.
- [Green] When you completely stop the vehicle by depressing the brake pedal with the auto hold system activated.
- [Yellow] When there is a malfunction with the auto hold system.
   In this case, have the vehicle inspected by an authorized HYUNDAI dealer.

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

#### This indicator illuminates:

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

For more information, refer to "Drive Mode Integrated Control System" in chapter 5.

#### This indicator illuminates:

 When you select "ECO" mode as drive mode.

For more information, refer to "Drive Mode Integrated Control System" in chapter 5.

## **A** WARNING

Do not monitor the ECO indicator while driving. This may distract you, and may cause an accident, resulting in severe personal injury.

## Low Tire Pressure Warning Light



## This warning light illuminates:

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

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

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

When there is a malfunction with the TPMS.

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

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

### **A** WARNING

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

## Lane Keeping Assist System (LKAS) Indicator Light (if equipped)



This indicator light illuminates:

- [Green] When the system operating conditions are satisfied.
- [White] The system operating conditions are not satisfied.
- [Yellow] When there is a malfunction with the lane keeping assist system.

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

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

## Warning messages

#### Shift to P

This warning message is displayed when you attempt to turn OFF the vehicle without setting the shift lever in P (Park).

At this time, the Engine Start/Stop button turns to the ACC position (When you re-press the Engine Start/Stop button again, it will turn to the ON position).

## Low key battery

This warning message is displayed when the Smart Key battery is discharged while turning the Engine Start/Stop button to the OFF position.

## Press brake pedal to start engine

This warning message is displayed when the Engine Start/Stop button changes to the ACC position twice by repeatedly pressing the button without depressing the brake pedal.

You can start the vehicle by depressing the brake pedal

### Key not in vehicle

This warning message is displayed when the Smart Key is not in the vehicle while pressing the Engine Start/Stop button.

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

#### Key not detected

This warning message is displayed when the Smart Key is not detected while pressing the Engine Start/Stop button.

### Press START button again

This message is displayed if you were unable to start the vehicle when the Engine Start/Stop button was pressed.

If this occurs, attempt to start the engine by pressing the Engine Start/ Stop button again.

If the warning message appears each time you press the Engine Start/Stop button, have your vehicle inspected by an authorized Hyundai dealer.

## Press START button with key

This warning message is displayed when you press the Engine Start/Stop button while the warning message, "Key not detected," is displayed.

At this time, the immobilizer indicator light blinks.

#### Check BRAKE SWITCH fuse

This warning message is displayed if the brake switch fuse is disconnected.

If this message is displayed, replace the fuse with a new one before starting the vehicle. If not possible, you can start the engine by pressing the Engine Start/Stop button for 10 seconds in the ACC position.

### Shift to P to start engine

This warning message is displayed when you try to start the vehicle with the shift lever not in P (Park).

### Door, Hood, Trunk Open



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This warning message is displayed indicating which door, or the hood, or the trunk is open.

## **A** CAUTION

Before driving the vehicle, you should confirm that the door/hood/trunk is fully closed.

Also, check there is no door/ hood/trunk open warning light or message displayed on the instrument cluster.

## Sunroof Open (if equipped)



This warning is displayed when the sunroof is opened, after turning OFF the vehicle.

### Low Tire Pressure

This warning message is displayed if the tire pressure is low. The corresponding tire on the vehicle will be illuminated.

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

#### Turn on FUSE SWITCH

This warning message is displayed if the fuse switch in the instrument panel fuse, under the steering wheel is OFF.

If this message is displayed, turn the fuse switch on.

For more information, refer to "Fuses" in chapter 7.

## Align steering wheel (if equipped)

This warning message is displayed when the steering wheel is turned by 90 degrees or wider, either to the left or to the right, while running the engine.

In order to align the steering wheel, turn the wheel in the direction shown while the engine is running to straighten the steering wheel.

## Steering wheel aligning is completed (if equipped)

If the steering wheel aligning is completed after "Align steering wheel" warning message is displayed, this message is displayed for 2 seconds.

#### Low Washer Fluid

This warning message is displayed in the service reminder mode, when the washer fluid in the reservoir is nearly empty.

If this warning message is displayed, have the washer fluid reservoir refilled.

#### Low Fuel

This warning message is displayed if the fuel tank is almost out of fuel.

When this message is displayed, the vehicle range is approximately 30 miles.

When this message is displayed, the low fuel level warning light in the instrument cluster will come on.

It is recommended to look for the nearest fueling station and refuel as soon as possible.

## Engine overheated

This warning message is displayed when the engine coolant temperature is above 248°F (120°C). This means that the engine is overheated and may be damaged.

If your vehicle is overheated, refer to "Overheating" in chapter 6.

## Check headlight (if equipped)

This warning message is displayed, if the headlamps are not operating properly. The headlamp bulb may need to be replaced. If the vehicle is equipped with LED headlamps, have the vehicle inspected by an authorized HYUNDAI dealer.

## Information

Make sure to replace the burned out bulb with a new one of the same wattage rating.

## Check headlamp LED (if equipped)

This warning message is displayed if there is a problem with the LED headlamp. Have the vehicle inspected by an authorized HYUNDAI dealer.

## Check headlamp cooling fan (if equipped)

This warning message is displayed if there is a problem with headlamp fan. Have the vehicle inspected by an authorized HYUNDAI dealer.

## Check smart high beam system (if equipped)

This warning message is displayed if there is a problem with the Smart High Beam System. Have the vehicle inspected by an authorized HYUNDAI dealer.

For more information, refer to "Smart High Beam System" in chapter 3.

### Check Auton. Emergency Braking system (if equipped)

This warning message is displayed if there is a malfunction with the Autonomous Emergency Braking (AEB) system. Have the vehicle inspected by an authorized HYUNDAI dealer.

For more details, refer to "Autonomous Emergency Braking (AEB) system" in chapter 5.

## Check Driver Attention Alert System (if equipped)

This warning message is displayed if there is a problem with the Driver Attention Alert System. Have the vehicle inspected by an authorized HYUNDAI dealer.

For more information, refer to "Driver Attention Alert (DAA)" in chapter 5.

## Check BSD System (if equipped)

This warning message is displayed if there is a problem with the Blind Spot Detection (BSD) system. Have the vehicle inspected by an authorized HYUNDAI dealer.

For more information, refer to "Blind Spot Detection (BSD) System" in chapter 5.

## Check Lane Keep Assist System (if equipped)

This warning message is displayed if there is a problem with the Lane Keeping Assist System (LKAS). Have the vehicle inspected by an authorized HYUNDAI dealer.

For more information, refer to "Lane Keeping Assist System (LKAS)" in chapter 5.

## Check Active Air Flap System

This warning message is displayed in the following situations:

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

When all of the above conditions are fixed, the warning will disappear.

## Check Hybrid system

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

Refrain from driving when the warning message is displayed.

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

### Check Hybrid system. Turn off engine.

This warning message is displayed when there is a problem with the hybrid system. The "=" indicator will blink and a warning chime will sound until the problem is solved.

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

## Check Hybrid system. Do not start engine.

This warning message is displayed when the hybrid battery power (SOC) level is low. A warning chime will sound until the problem is solved. In this case, have your vehicle inspected by an authorized HYUNDAI dealer.

## Stop vehicle and check power supply

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

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

## Stop vehicle to charge battery

This warning message is displayed when the hybrid battery power (SOC) level is low.

In this case, park the vehicle in a safe location and wait until the hybrid battery is charged.

You can increase the hybrid battery charging rate by holding the accelerator pedal to the floor with transmission in P. The engine will rev high but it will be limited for charging purpose when you hold the pedal to the floor.

## Refuel to prevent Hybrid battery damage

This warning message is displayed when the fuel tank is nearly empty.

You should refill the fuel tank to prevent hybrid battery damage.

#### Refill inverter coolant

This warning message is displayed when the inverter coolant is nearly empty.

You should refill the inverter coolant.

#### Stop vehicle and check brakes

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

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

#### Check brakes

This warning message is displayed when the brake performance is low or the regenerative brake does not work properly due to a failure in the brake system.

In this case, it may take longer for the brake pedal to operate and the braking distance may become longer.

#### Check Virtual Engine Sound System

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

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

## Coasting guide (if equipped)



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A chime will sound and the coasting quide indicator will blink four times to inform the driver when to take the foot off from the accelerator by anticipating a decelerating event\* based on the analysis of driving routes and road conditions of the navigation. It encourages the driver to remove foot from the pedal and allow coasting down the road with EV motor only. This helps prevent unnecessary fuel consumption and increases fuel efficiency.

\* Example of a deceleration event is going down an extended hill, slowing down approaching a toll booth, and approaching reduced speed zones



#### User settings

Press the Engine Start/Stop button and put the shift lever in P(Park). In the User Settings Mode, select Driving Assist, Coasting Guide, and then On to turn on the system. Cancel the selection of coasting guide to turn off the system. For the explanation of the system, press and hold the [OK] button.

#### Operation conditions

To activate the system, take the following procedures. Enter your destination information on the navigation and select the driving route. Select the ECO mode in the Integrated Driving Control System. Then, satisfy the following.

- The driving speed should be between 37 mph (60 km/h) and 99 mph (160 km/h).
- \* The operating speed may vary due to difference between instrument cluster and navigation effected by tire inflation level.

## **i** Information

Coasting guide is only a supplemental system to assist with fuel-efficient driving. Thus, the operating conditions may be different in accordance with traffic/road conditions (i.e. driving in a traffic jam, driving on a slope, driving on a curve). Thus, take the actual driving conditions into consideration, such as distances from the vehicles ahead/behind, while referring to the coasting guide system as guidance.

## Unplugging vehicle to start (Plug-in hybrid)

The message is displayed when you start the engine without unplugging the charging cable. Unplug the charging cable, and then start the vehicle.

## Remaining time to fully charge the battery (Plug-in hybrid)

The message is displayed to notify the remaining time to fully charge the battery.

## 2WD Certification Mode (Plug-in hybrid)

The message is displayed when the 2WD vehicle enters the fuel economy certification test mode.

## Wait until fuel door opens (Plug-in hybrid)

The message is displayed when you attempt to open the fuel filler door with the fuel tank pressurized. Wait until the fuel tank is depressurized.

## *i* Information

- It may take up to 20 seconds to open fuel filler door.
- When the fuel filler door is frozen and does not open after 20 seconds at freezing temperature, slightly tap the fuel filler door and then attempt to open it.

## Fuel door open (Plug-in hybrid)

The message is displayed when the fuel filler door opens after the fuel tank is depressurized. If this message is displayed, you can refuel the fuel tank.

## Check fuel door (Plug-in hybrid)

The message is displayed when the vehicle is driven with the fuel filler door opened. Close the fuel filler door and then start driving.

## Park with engine On to charge battery (Plug-in hybrid)

The message is displayed when the charging connector is plugged with the shift lever in R (Reverse), N (Neutral) or D (Drive). Move the shift lever to P (Park) and re-start the charging process.

## EV / HEV / CHG modes (Plug-in hybrid)

A corresponding message is displayed when a mode is selected by pressing the HEV button

# Battery charged. Maintaining current mode / Low battery. Maintaining hybrid mode (Plug-in hybrid)

A corresponding message is displayed when the high-voltage (hybrid) battery is fully charged or nearly discharged.

### Charging complete. Switching to Hybrid mode (Plug-in hybrid)

The message is displayed when the high-voltage (hybrid) battery is fully charged, and when the mode is changed to the HEV mode.

### Low/High System Temp. Maintaining Hybrid mode (Plug-in hybrid)

A corresponding message is displayed when the temperature of the high-voltage (hybrid) battery is too low or too high. This warning message is to protect the battery and the hybrid system.

### Low/High System Temp. Switching to Hybrid mode (Plug-in hybrid)

A corresponding message is displayed when the temperature of the high-voltage (hybrid) battery is too low or high. This warning message is to protect the battery and the hybrid system.

## Switching to Hybrid mode to lubricate engine (Plug-in hybrid)

To prevent damage of the hybrid lubrication system when the hybrid system has not been started for a long time.

- When the hybrid system is ON after 5 weeks of being turned off, the hybrid system maintenance mode will operate.
- When the hybrid system maintenance mode is operated, HEV mode will be kept on after the hybrid system is ON and the above message will be displayed on the cluster.

If you press the HEV switch to shift EV mode during engine maintenance mode, the above message will appear due to priority of the hybrid system maintenance mode.

## Maintaining Hybrid mode to protect engine (Plug-in hybrid)

The hybrid system will automatically stop after sufficient heating. (If the hybrid system is turned OFF without sufficient heating, the hybrid system maintenance mode will be operated once more.

## LCD DISPLAY LCD display control



The LCD display modes can be changed by pressing the control switches on the steering wheel.

(1) : Changing LCD modes or returning to previous position

(2)  $\land$ ,  $\lor$  : Changing items (3) OK : Selecting or resetting

### LCD modes

Modes	Symbol	Description
Trip Computer		This mode displays information related to driving such as tripmeter, fuel economy, etc.  For more information, refer to "Trip Computer" in this chapter.
Turn By Turn (TBT) (if equipped)	<b> </b>	This mode displays the state of the navigation.
Assist (If equipped)		This mode displays the state of the Smart Cruise Control (SCC) and Lane Keeping Assist System (LKAS).
		For more information, refer to "Smart Cruise Control (SCC)" and Lane Keeping Assist System (LKAS) in chapter 5.
		This mode displays information related to Driver Attention Alert and Tire Pressure Monitoring System (TPMS).
		For more information, refer to "Driver Attention Alert (DAA)" in chapter 5 and "Tire Pressure Monitoring System (TPMS)" in chapter 6.
User Settings	<b>O</b>	On this mode, you can change settings of the doors, lamps, etc.
Warning	<u>(i)</u>	This mode displays information such as tire pressure, service intervals, warning messages related to the Smart Cruise Control, etc.

## Shift to P to edit settings



This warning message appears if you try to adjust the User Settings while driving.

For your safety, change the User Settings mode after parking the vehicle, applying the parking brake and moving the shift lever to the P (Park) position.

## Quick guide (if equipped)

This mode provides quick guides for the systems in the User Settings mode.

Select an item, press and hold the [OK] button.

For more information about each system, refer to this Owner's Manual.

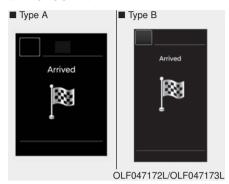
## Trip computer mode



The trip computer mode displays information related to vehicle driving parameters including range, fuel economy, trip meter information and vehicle speed.

For more information, refer to "Trip Computer" in this chapter.

## Turn By Turn (TBT) mode (if equipped)



This mode displays the state of the navigation.

#### Assist mode



#### SCC/LKAS/DAA

This mode displays the state of the Smart Cruise Control (SCC), Lane Keeping Assist System (LKAS) and Driver Attention Alert (DAA).

For more information, refer to each system information in chapter 5.



**Tire Pressure** 

This mode displays information related to Tire Pressure.

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

## Warning Message Mode

If one of followings occurs, warning messages will be displayed on the information mode for several seconds.

- Malfunction of below systems
- Low washer fluid (if equipped)
  - Smart Cruise Control (SCC)
  - Blind Spot Detection (BSD)
  - Tire Pressure Monitoring System (TPMS)
  - Automatic Emergency Braking system (AEB)
  - High Beam Assist system (HBA)

## User settings mode

In this mode, you can change the setting of the instrument cluster, doors, lamps, etc.

- 1. Driving Assist
- 2. Door
- 3. Lights
- 4. Sound
- 5. Convenience
- 6. Service interval
- 7. Other features
- 8. Reset

The information provided differs according to the items applied to your vehicle.

## 1. Driving Assist

- LKAS (Lane Keeping Assist System)
- Lane Departure Warning/Standard LKA/Active LKA

To adjust the sensitivity of the Lane Keeping Assist System.

For more information, refer to the "Lane Keeping Assist System" in chapter 5.

- DAA (Driver Attention Alert)
   To adjust the sensitivity of the Driver Attention Alert (DAA).
- Off/Normal/Early

For more information, refer to the "Driver Attention Alert (DAA)" in chapter 5.

- SCC Response (Smart Cruise Control)
- Slow/Normal/Fast
   To adjust the sensitivity of the Smart Cruise Control system.

# For more information, refer to the "Smart Cruise Control" in chapter 5.

 AEB (Auton. Emergency Braking)
 To activate or deactivate the Autonomous Emergency Braking (AEB).

# For more information, refer to "Autonomous Emergency Braking (AEB)" in chapter 5.

- FCW (Fwd. Collision Warning)
- Late/Normal/Early
   To adjust the initial warning alert time for Autonomous Emergency Braking system.

For more information, refer to "Autonomous Emergency Braking (AEB)" in chapter 5.

 BSD Sound (Blind Spot Detection)
 To activate or deactivate the Blind Spot Detection sound.

# For more information, refer to "Blind Spot Detection" in chapter 5.

 RCTA (Rear Cross Traffic Alert)
 To activate or deactivate the Rear Cross Traffic Alert system.

# For more information, refer to "Blind Spot Detection" in chapter 5.

- Coasting Guide
- Coasting Guide: To activate or deactivate the Coasting Guide system.
- Sound: To activate or deactivate the Coasting Guide system sound.

For more information, refer to "Coasting Guide" in chapter 5.

#### 2. Door

- Automatic Lock
- Disable: The auto door lock operation will be canceled.
- Enable on Speed: All doors will be automatically locked when the vehicle speed exceeds 15 km/h (9.3 mph).
- Enable on Shift: All doors will be automatically locked if the automatic transmission shift lever is shifted from the P (Park) position to the R (Reverse), N (Neutral), or D (Drive) position.

- Automatic Unlock
- Disable: The auto door unlock operation will be canceled.
- Vehicle Off: All doors will be automatically unlocked when the Engine Star/Stop button is set to the OFF position. (if equipped with smart key)
- On Key Out: All doors will be automatically unlocked when the ignition key is removed from the ignition switch. (if equipped with remote key)
- Driver Door Unlock: All doors will be automatically unlocked when the driver's door is opened.
- On Shift to P: All doors will be automatically unlocked if the automatic transmission shift lever is shifted to the P (Park) position.
- Smart Trunk

To activate or deactivate the Smart Trunk system.

For more details, refer to "Smart Trunk" in this chapter.

### 3. Lights

- One Touch Turn Signal
- Off: The one touch turn signal function will be deactivated.
- 3, 5, 7 Flashes: The turn signal indicator will blink 3, 5, or 7 times when the turn signal lever is moved slightly.

## For more information, refer to "Light" in this chapter.

· Head Lamp Delay

To activate or deactivate the headlamp delay function.

## For more information, refer to "Light" in this chapter

· Welcome Light

To activate or deactivate the welcome light function.

For more information, refer to "Light" in this chapter.

#### 4. Sound

- Park Assist Volume
- Softer/Louder
   To adjust the Park Assist System volume.
- · Welcome Sound

To activate or deactivate the welcome sound.

#### 5. Convenience

- Seat Easy Access
- Off: The seat easy access function is deactivated.
- Normal/Extended: When you turn off the engine, the driver's seat will automatically move rearward short (Normal) or long (Extended) for you to enter or exit the vehicle more comfortably.

For more information, refer to "Driver Position Memory System" in this chapter.

Wireless Charging System
 To activate or deactivate the wireless charging system in the front seat.

For more information, refer to "Wireless Charging System" in this chapter.

· Wiper/Lights Display

To activate or deactivate the Wiper/Light mode.

When activated, the LCD display shows the selected Wiper/Light mode whenever you changed the mode.

Gear Position Pop-up

To activate or deactivate the gear position pop-up.

When activated, the gear position will be displayed on the LCD display.

#### 6. Service Interval

Enabled service Interval

To activate or deactivate the service interval function.

Adjust Interval

If the service interval menu is activated, you may adjust the time and distance.

## *i* Information

To use the service interval menu, consult an authorized HYUNDAI dealer.

If the service interval is activated and the time and distance is adjusted, messages are displayed in the following situations each time the vehicle is turned on.

- Service in
  - : Displayed to inform the driver the remaining mileage and days to service.
- Service required
  - : Displayed when the mileage and days to service has been reached or passed.

## Information

If any of the following conditions occur, the mileage and number of days to service may be incorrect.

- The battery cable is disconnected.
- The fuse switch is turned off.
- The battery is discharged.

#### 7. Other Features

Aux. Battery Saver+

To activate or deactivate the Aux. Battery Saver+ function.

When activated, the high voltage battery is used to keep the 12V battery charged.

For more information, refer to the "Hybrid System Overview" provided in the front of the owner's manual.

- Fuel Economy Auto Reset
- Off: The average fuel economy will not reset automatically whenever refueling.
- After Ignition: The average fuel economy will reset automatically whenever it has passed 4 hours after turning OFF the engine.
- After recharging: The average fuel economy will reset automatically when refueling.

For more information, refer to "Trip Computer" in this chapter.

- Fuel Economy Unit
   To select the fuel economy unit. (km/L, L/100, MPG)
- Temperature Unit
   To select the temperature unit. (°C,°F)
- Tire Pressure Unit
   To select the tire pressure unit. (psi, kPa, bar)

#### 8. Reset

You can reset the menus in the User Settings Mode. All menus in the User Settings Mode are initialized, except language and service interval.

## TRIP COMPUTER

The trip computer is a microcomputer-controlled driver information system that displays information related to driving.

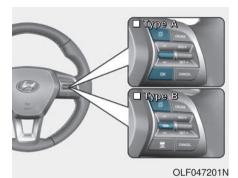
## **1** Information

Some driving information stored in the trip computer (for example Average Vehicle Speed) resets if the battery is disconnected.

## **Trip modes**

## **Fuel Economy** Distance To Empty Average Fuel Economy Instant Fuel Economy Accumulated Info Tripmeter Average Fuel Economy Elapsed Time **Drive Info** Tripmeter Average Fuel Economy Elapsed Time Digital Speedometer Driving style

Energy flow



To change the trip mode, toggle the " $\wedge$ ,  $\vee$ " switch on the steering wheel.

## Fuel economy



### Distance To Empty (1)

- The distance to empty is the estimated distance the vehicle can be driven with the remaining fuel.
- Distance range: 1 ~ 9999 mi. or 1 ~ 9999 km
- If the estimated distance is below 1 mi. (1 km), the trip computer will display "---" as distance to empty.

## Information

- If the vehicle is not on level ground or the battery power has been interrupted, the distance to empty function may not operate correctly.
- The distance to empty may differ from the actual driving distance as it is an estimate of the available driving distance.
- The trip computer may not register additional fuel if less than 1.6 gallons (6 liters) of fuel are added to the vehicle.
- The fuel economy and distance to empty may vary significantly based on driving conditions, driving habits, and condition of the vehicle.

### **Average Fuel Economy (2)**

- The average fuel economy is calculated by the total driving distance and fuel consumption since the last average fuel economy reset.
- The average fuel economy can be reset both manually and automatically.

#### Manual reset

To clear the average fuel economy manually, press the [OK] button on the steering wheel for more than 1 second when the average fuel economy is displayed.

#### **Automatic reset**

To automatically reset the average fuel economy after refueling, select the "Auto Reset" mode in User Settings menu on the LCD display.

- After Ignition: The average fuel economy will reset automatically whenever it has passed 4 hours after turning OFF the engine.
- After Refueling: The average fuel economy will reset automatically when driving speed exceeds 1 km/h, after adding 6 liters (1.6 gallons) of fuel or more.

## **i** Information

The average fuel economy may be inaccurate, when the vehicle drives shorter than 0.19 miles (300 meters) after turning ON the Engine Start/Stop button.

#### **Instant Fuel Economy (3)**

 This mode displays the instant fuel economy during the last few seconds when the vehicle speed is more than 6.2 MPH (10 km/h).

## Accumulated Info display



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

The information is calculated starting from the last reset.

To manually reset the information, press and hold the OK button when viewing the Accumulated driving info.

The trip distance, the average fuel economy, and total driving time will reset simultaneously.

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

## Information

The vehicle must be driven for a minimum of 0.19 miles (300 meters) since the last ignition key cycle before the average fuel economy will be recalculated.

## Driving Info display



This display shows the trip distance (1), the average fuel economy (2), and the total driving time (3).

The information is calculated for each ignition cycle. The driving information data gets initialized, when it has passed 4 hours after turning OFF the engine. In other words, the last driving information is available 4 hours after you have turned on the engine.

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

The driving information will continue to be counted while the engine is still running (for example, when the vehicle is in traffic or stopped at a stop light.)

## **i** Information

The vehicle must be driven for a minimum of 0.19 miles (300 meters) since the last ignition key cycle before the average fuel economy will be recalculated.

## Digital Speedometer



This message shows the speed of the vehicle (MPH).

## Driving style



The driving style is displayed when you select "ECO" mode by pressing the DRIVE MODE button.

When the SPORT or NORMAL mode is selected for your driving, each driving category will be displayed with "--".

## Energy flow (for Hybrid Electric Vehicle)

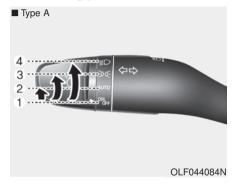
The hybrid system informs the drivers its energy flow in various operating modes. While driving, the current energy flow is specified in 11 modes.

For more information, refer to HEV Energy Flow in the "Hybrid System quick reference" provided in front of the owner's manual.

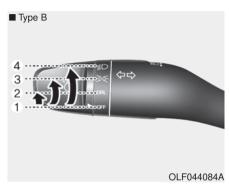
## **LIGHT Exterior Lights**

## Lighting control

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



- (1) DRL OFF position
- (2) AUTO light position
- (3) Parking lamp position
- (4) Headlamp position



- (1) OFF position
- (2) DRL position
- (3) Parking lamp position
- (4) Headlamp position



AUTO light position (if equipped)
The parking lamp and headlamp will
be turned ON or OFF automatically
depending on the amount of light
outside the vehicle.

Even with the AUTO light feature in operation, it is recommended to manually turn ON the lamps when driving at night or in a fog, 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 light system may not work properly.



Parking lamp position (30%)

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



Headlamp position (♠)

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

## **i** Information

Engine Start/Stop button is in the ON position to turn on the headlamp.

## High beam operation



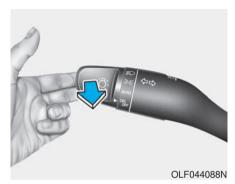
To turn on the high beam headlamp, push the lever away from you. The lever will return to its original position.

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

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

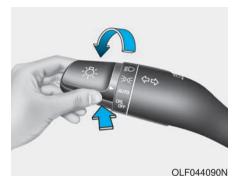
## **A** WARNING

Do not use high beam when there are other vehicles approaching you. Using high beam could obstruct the other driver's vision.



To flash the high beam headlamp, pull the lever towards you, then release the lever. The high beams will remain ON as long as you hold the lever towards you.

## **Smart High Beam** (if equipped)



The Smart High Beam is a system that automatically adjusts the head-lamp range (switches between high beam and low beam) according to the brightness of other vehicles and road conditions.

### Operating condition

- 1. Place the light switch in the AUTO position.
- 2. Turn on the high beam by pushing the lever away from you.
- 3. The Smart High Beam will turn on when vehicle speed is above 28 mph (45km/h).
  - If the lever is pushed away when the Smart High Beam is operating, the Smart High Beam will turn off and the high beam will be on continuously. The smart high beam (♣) indicator will turn off.
  - If the lever is pulled towards you when the Smart High Beam is operating, the Smart High Beam will turn off.
- If the light switch is placed to the headlamp position, the Smart High Beam will turn off and the low beam will be on continuously.

The high beam switches to low beam in the below conditions.

- When the Smart High Beam is off.
- When the light switch is not in the AUTO position.
- When the headlamp is detected from the on-coming vehicle.
- When the tail lamp is detected from the front vehicle.
- When the surrounding is bright enough high beams are not needed.
- When streetlights or other lights are detected.
- When vehicle speed is below 18 mph (35km/h).

## Warning light and message



When the Smart High Beam Assist System is not working properly, the warning message will come on for a few second. After the message disappears, the master warning light will illuminate. Take your vehicle to an authorized HYUNDAI dealer and have the system checked.

## **A** CAUTION

The system may not operate normally in the below conditions.

- When the light from the oncoming or front vehicle is not detected because of lamp damage, hidden from sight, etc.
- When the lamp of the on-coming or front vehicle is covered with dust, snow or water.
- When the light from the oncoming or front vehicle is not detected because of exhaust fume, smoke, fog, snow, etc.
- When the front window is covered with foreign matters such as ice, dust, fog, or is damaged.

(Continued)

## (Continued)

- When there is a similar shape lamp with the front vehicle's lamps.
- When it is hard to see because of fog, heavy rain or snow.
- When the headlamp is not repaired or replaced at an authorized dealer.
- When headlamp aiming is not properly adjusted.
- When driving on a narrow curved road or rough road.
- · When driving downhill or uphill.
- When only part of the vehicle in front is visible on a crossroad or curved road.
- When there is a traffic light, reflecting sign, flashing sign or mirror.

(Continued)

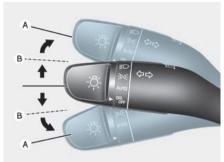
### (Continued)

- When the road conditions are bad such as being wet or covered with snow.
- When the front vehicle's headlamps are off but the fog lamps on.
- When a vehicle suddenly appears from a curve.
- When the vehicle is tilted from a flat tire or being towed.
- When the LKAS (Lane Keeping Assist System) warning light illuminates. (if equipped)

## **A** WARNING

- Do not place any accessories, stickers or tint the windshield.
- Have the windshield glass replaced from an authorized dealer.
- Do not remove or impact related parts of the Smart High Beam system.
- Be careful that water doesn't get into the Smart High Beam unit.
- Do not place objects on the dashboard that reflects light such as mirrors, white paper, etc. The system may malfunction if sunlight is reflected.
- At times, the Smart High Beam system may not work properly, always check the road conditions for your safety. When the system does not operate normally, manually change between the high beam and low beam.

## Turn signals and lane change signals



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To signal a turn, push down on the lever for a left turn or up for a right turn in position (A). To signal a lane change, move the turn signal lever slightly and hold it in position (B). The lever will return to the OFF position when released or when the turn is completed.

If an indicator stays on and does not flash or if it flashes abnormally, one of the turn signal bulbs may be burned out and will require replacement.

## One touch turn signal function

To activate an One Touch Turn Signal function, move the turn signal lever slightly and then release it. The turn signal indicators will blink 3, 5, or 7 times, depending on the User Settings on the LCD display.

You can activate or deactivate the One Touch Turn Signal function or choose the number of blinking (3, 5, or 7) from the User Settings Mode (Light) on the LCD display.

For more information, refer to the "LCD Display" section in this chapter.

## Battery saver function

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

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

If necessary, to keep the lamps on when the engine is turned off, perform the following:

- 1) Open the driver-side door.
- 2) Turn the parking lamps OFF and ON again using the light switch on the steering column.

## Headlamp delay function (if equipped)

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

The headlamps (and/or parking lamps) can be turned off by pressing the lock button on the smart key twice or turning the light switch to the OFF or AUTO position. However, if you turn the light switch to the AUTO position when it is dark outside, the headlamps will not be turned off.

You can activate or deactivate the Headlamp Delay function from the User Settings Mode (Light) on the LCD display.

For more information, refer to the "LCD Display" section in this chapter.

#### NOTICE

If the driver gets out of the vehicle through other doors (except driver's door), the battery saver function does not operate and the headlamp delay function does not turn off automatically. Therefore, It causes the battery to be discharged. In this case, make sure to turn off the lamp before getting out of the vehicle.

## AFLS (Adaptive Front Lighting System) a.k.a. DBL (Dynamic Bending Light) (if equipped)



Adaptive front lighting system uses the steering angle and vehicle speed to help maximize your field of vision by swiveling and leveling the headlamp.

Change the switch to the AUTO position when the engine is running. The adaptive front lighting system will operate when the headlamps are ON. To turn off the AFLS, change the switch to other positions. After turning the AFLS off, headlamp swiveling no longer occurs, but the leveling will operate continuously.

If the AFLS malfunction indicator comes on, the AFLS is not working properly. Drive to the nearest safe location and restart the engine. If the indicator continuously remains on, have the system checked by an authorized HYUNDAI dealer.

## Daytime running light (DRL)

The Daytime Running Lights (DRL) can help for others to see the front of your vehicle during the day, especially after dawn and before sunset.

#### for U.S.A

The DRL will turn off when:

- Type A
- 1. The light switch is not in the AUTO position.
- 2. The parking brake is applied.
- 3. The engine is turned off.
- Type B
- 1. The light switch is not in DRL position.
- 2. The parking brake is applied.
- 3. The engine is turned off.

#### for Canada

The DRL will turn off when:

- 1. The light switch is in the headlamp position, including the operation that the headlamp is turned on automatically in the AUTO light position.
- 2. The parking brake is applied.
- 3. The engine is turned off.

## Welcome System (if equipped) Welcome light



## Door handle lamp (if equipped)

When all the doors (and trunk) are closed and locked, the door handle lamp will come on for about 15 seconds if any of the below is performed.

- When the door unlock button is pressed on the smart key.
- When the button of the outside door handle is pressed.
- When the vehicle is approached with the smart key in possession.

## Headlamp and Parking lamp

When the headlamp (lamp switch in the headlamp or AUTO position) is on and all doors (and trunk) are locked and closed, the parking lamp and headlamp will come on for 15 seconds if/or any of the below is performed.

 When the door unlock button is pressed on smart key.

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

You can activate or deactivate the Welcome Light from the User Settings Mode (Light) on the LCD display.

For more information, refer to the "LCD Display" section in this chapter.

### Interior lamp

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

- When the door unlock button is pressed on the smart key.
- When the button of the outside door handle is pressed.

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

## **Interior Lights**

## **A** WARNING

Do not use the interior lights when driving in the dark. The interior lights may obscure your view and cause an accident.

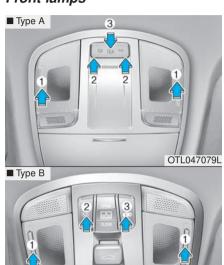
## NOTICE

Do not use the interior lights for extended periods when the engine is turned off or the battery will discharge.

### Interior lamp AUTO cut

The interior lamps will automatically go off approximately 20 minutes after the engine is turned off and the doors closed. If a door is opened, the lamp will go off 40 minutes after the engine is turned off. If the doors are locked by the smart key and the vehicle enters the armed stage of the theft alarm system, the lamps will go off five seconds later.

### Front lamps



- (1) Front Map Lamp
- (2) Front Room Lamp
- (3) Front Door Lamp

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### Front Map Lamp:

Press either of these lens (1) to turn the map lamp on or off. This light produces a spot beam for convenient use as a map lamp at night or as a personal lamp for the driver and the front passenger.

#### **Front Room Lamp:**

### • Type A

宗: Press this switch to turn the front and rear room lamps on.

: Press this switch to turn the front and rear room lamps off.

## • Type B

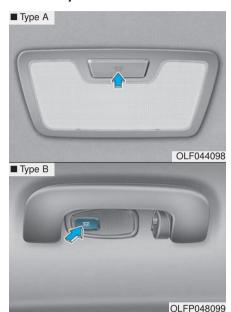
宗: Press this switch to turn the front and rear room lamps on and off.

## Front Door Lamp 3:

The front or rear room lamps come on when the front or rear doors are opened if the engine is running or not. When doors are unlocked by the smart key, the front and rear lamps come on for approximately 15 seconds as long as any door is not opened. The front and rear room lamps go out gradually after approximately 15 seconds if the door is closed. However, if engine Start/Stop button is in the ON position, or all doors are locked, the front and rear lamps will turn off immediately.

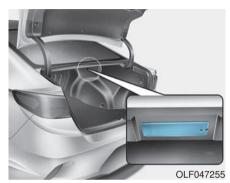
If a door is opened with the ignition switch in the ACC position or the LOCK/OFF position, the front and rear lamps stay on for about 20 minutes. However, if a door is opened with engine Start/Stop button is in the ON position the lamps stays on continuously.

## Rear lamps



Rear Room Lamp 🐺 :
Press this switch to turn the room lamp on and off.

## Trunk room lamp

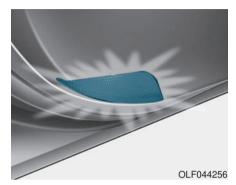


The trunk room lamp comes on when the trunk is opened.

## NOTICE

The trunk lamp comes on as long as the trunk lid is open. To prevent unnecessary charging system drain, close the trunk lid securely after using the trunk.

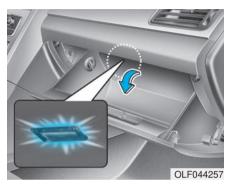
## Door courtesy lamp



The door courtesy lamp comes ON when the door is opened to assist entering or exiting the vehicle. It also serves as a warning to passing vehicles that the vehicle door is open.

When engine Start/Stop button is in the ACC or OFF position, the door courtesy lamp turns off after 20 minutes.

## Glove box lamp



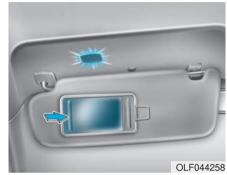
The glove box lamp comes on when the glove box is opened.

If the glove box is not closed, the lamp will turn off after 20 minutes.

## NOTICE

To prevent unnecessary charging system drain, close the glove box securely after using the glove box.

## Vanity mirror lamp

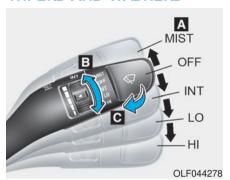


Opening the lid of the vanity mirror will automatically turn on the mirror light.

## NOTICE

To prevent unnecessary charging system drain, close the vanity mirror cover after using the mirror.

### WIPERS AND WASHERS



A: Wiper speed control

- · MIST Single wipe
- · OFF Off
- · INT Intermittent wipe
- · LO Low wiper speed
- · HI High wiper speed

B : Intermittent control wipe time adjustment

C: Wash with brief wipes

## **Windshield Wipers**

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

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

OFF: Wiper is not in operation.

INT: Wiper operates intermittently at the same wiping intervals. To vary the speed setting, move the speed control lever.

LO : The wiper operates continuously at a low speed.

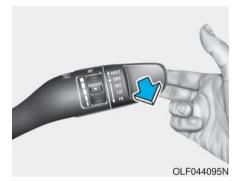
HI: The wiper operates continuously at a higher speed.

## **i** Information

If there is heavy accumulation of snow or ice on the windshield, defrost the windshield for about 10 minutes, or until the snow and/or ice is removed before using the windshield wipers to ensure proper operation.

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

#### Windshield Washers



In the OFF position, pull the lever gently toward you to spray washer fluid on the windshield and to run the wipers 1-3 cycles. The spray and wiper operation will continue until you release the lever. If the washer does not work, you may need to add washer fluid to the washer fluid reservoir.

If equipped with the Headlamp Washer, washer fluid will be sprayed on the headlamp at the same time you operate the windshield washer when:

- 1. Engine Start/Stop button is in the ON position.
- 2. The light switch is in the headlamp position.

## **A** WARNING

When the outside temperature is below freezing, ALWAYS warm the windshield using the defroster to prevent the washer fluid from freezing on the windshield and obscuring your vision which could result in an accident and serious injury or death.

### NOTICE

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

## DRIVER ASSIST SYSTEM Bear view camera



The Rear View Camera will activate when the engine is running and the shift lever is in the R (Reverse) position.

This is a supplemental system that shows behind the vehicle through the navigation display while backing-up.

## **A** WARNING

The Rear View Camera is not a safety device. It only serves to assist the driver in identifying objects directly behind the middle of the vehicle. The camera does NOT cover the complete area behind the vehicle.

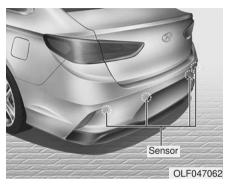
## **A** WARNING

- Never rely solely on the Rear View Camera when backing-up.
- ALWAYS look around your vehicle to make sure there are no objects or obstacles before moving the vehicle in any direction to prevent a collision.
- Always pay close attention when the vehicle is driven close to objects, particularly pedestrians, and especially children.

### NOTICE

Always keep the camera lens clean. The camera may not work normally if the lens is covered with dirt or snow.

## Rear parking assist system (if equipped)



The Rear Parking Assist System assists the driver during reverse movement of the vehicle by chiming if any object is sensed within approximately 50 in (120 cm) behind the vehicle.

This system is a supplemental system that senses objects within the range and location of the sensors, it cannot detect objects in other areas where sensors are not installed.

## **A** WARNING

- ALWAYS look around your vehicle to make sure there are not any objects or obstacles before moving the vehicle in any direction to prevent a collision.
- Always pay close attention when the vehicle is driven close to objects, particularly pedestrians, and especially children.
- Be aware that some objects may not be visible on the screen or be detected by the sensors, due to the objects distance, size or material, all of which can limit the effectiveness of the sensor.

## Operation of the Rear Parking Assist System

## **Operating condition**

- This system will activate when backing up with the ignition switch in the ON position. However, if the vehicle speed exceeds 3 mph (5km/h), the system may not detect objects.
- If the vehicle speed exceeds 6 mph (10 km/h), the system will not warn you even though objects are detected.
- When more than two objects are sensed at the same time, the closest one will be recognized first.

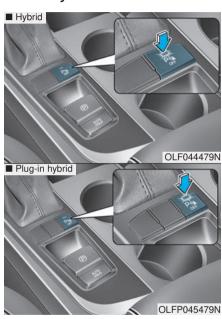
#### Types of warning sound and indicator

Types of warning sound	Indicator
When an object is 24 to 47 in (60 to 120 cm) from the rear bumper, the warning sound beeps intermittently.	
When an object is 12 to 24 in (30 to 60 cm) from the rear bumper, the warning sound beeps more frequently.	
When an object is within 12 in (30 cm) from the rear bumper, the warning sound beeps continuously.	

### NOTICE

- The indicator may differ from the illustration as objects or sensors status. If the indicator blinks, have your vehicle checked by an authorized HYUNDAI dealer.
- If the audible warning does not sound or if the buzzer sounds intermittently when shifting into R (Reverse) position, this may indicate a malfunction with the Parking Assist System. If this occurs, have your vehicle checked by an authorized HYUNDAI dealer as soon as possible.

## To turn off the Rear Parking Assist System



Push the button to turn off the Rear Parking Assist System. The indicator light on the button will turn on.

## Non-operational conditions of Parking Assist System

The Rear Parking Assist System may not operate normally when:

- · Moisture is frozen to the sensor.
- The sensor is covered with dirt or debris such as snow or ice, or the sensor cover is blocked.

There is a possibility of the Rear Parking Assist System malfunction when:

- Driving on uneven road surfaces such as unpaved roads, gravel, bumps, or gradient.
- Objects generating excessive noise such as vehicle horns, loud motorcycle engines, or truck air brakes can interfere with the sensor.
- · Heavy rain or water spray is present.
- Wireless transmitters or mobile phones are present near the sensor.
- The sensor is covered with snow.
- Any non-factory equipment or accessories have been installed, or if the vehicle bumper height or sensor installation has been modified.

Detecting range may decrease when:

- Outside air temperature is extremely hot or cold.
- Undetectable objects smaller than 40 inches (1 m) and narrower than 6 inches (14 cm) in diameter.

The following objects may not be recognized by the sensor:

- Sharp or slim objects such as ropes, chains or small poles.
- Objects, which tend to absorb sensor frequency such as clothes, spongy material or snow.

### NOTICE

Sensor may not recognize objects less than 12 inches (30 cm) from the sensor, or it may sense an incorrect distance.

## NOTICE

Do not push, scratch or strike the sensor with any hard objects that could damage the surface of the sensor. Sensor damage could occur.

## **A WARNING**

Your new vehicle warranty does not cover any accidents or damage to the vehicle or injuries to its occupants related to a Rear Parking Assist System. Always drive safely and cautiously.

## Rear parking assist system precautions

- The rear parking assist system may not operate consistently in some circumstances depending on the speed of the vehicle and the shapes of the objects detected.
- The rear parking assist system may malfunction if the vehicle bumper height or sensor installation has been modified or damaged. Any non-factory installed equipment or accessories may also interfere with the sensor performance.
- The sensor may not recognize objects less than 15 in. (40 cm) from the sensor, or it may sense an incorrect distance. Use caution.
- When the sensor is blocked with snow, dirt, debris, or ice, the rear parking assist system may be inoperative until the snow or ice melts, or the debris is removed. Use a soft cloth to wipe debris away from the sensor.
- Do not push, scratch or strike the sensor with any hard objects that could damage the surface of the sensor. Sensor damage could occur.

 Do not spray the sensors or its surrounding area directly with a high pressure washer. Doing so may cause the sensors to fail to operate normally.

## **A** WARNING

Your new vehicle warranty does not cover any accidents or damage to the vehicle or injuries to its occupants related to a Rear Parking Assist System. Always drive safely and cautiously.

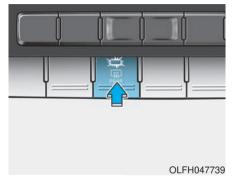
#### **DEFROSTER**

#### NOTICE

To prevent damage to the conductors bonded to the inside surface of the rear window, never use sharp instruments or window cleaners containing abrasives to clean the window.

If you want to defrost and defog the front windshield, refer to the "Windshield Defrosting and Defogging" section in this chapter.

#### **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 engine is running.

- To activate the rear window defroster, press the rear window defroster button located in the center facia switch panel. The indicator on the rear window defroster button illuminates when the defroster is ON.
- To turn off the defroster, press the rear window defroster button again.

## **i** Information

- If there is heavy accumulation of snow on the rear window, brush it off before operating the rear defroster.
- The rear window defroster automatically turns off after approximately 20 minutes or when engine Start/Stop button is in the OFF position.

## Outside rearview mirror defroster

If your vehicle is equipped with the outside rearview mirror defrosters, they will operate at the same time you turn on the rear window defroster.

## **AUTOMATIC CLIMATE CONTROL SYSTEM**

■ Type A



■ Type B



- 1. Driver's temperature control knob
- 2. AUTO (automatic control) button
- 3. Climate control information screen
- 4. Passenger's temperature control knob
- 5. SYNC button
- 6. OFF button
- 7. DRIVER ONLY button
- 8. Fan speed control button
- 9. Mode selection button
- 10. ECON (Economy air conditioning) button
- 11. Front windshield defrost button
- 12. Rear window defrost button
- 13. Air conditioning button
- 14. Air intake control button

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## Automatic heating and air conditioning



#### 1. Press the AUTO button.

The modes, fan speeds, air intake and air-conditioning will be controlled automatically according to the temperature setting.



2. Turn the temperature control knob to set the desired temperature.

## **i** Information

- To turn the automatic operation off, select any button of the following:
  - Mode selection button
  - Front windshield defrost button (Press the button one more time to deselect the front windshield defroster function. The 'AUTO' sign will illuminate on the information display once again.)
  - Fan speed control button

The selected function will be controlled manually while other functions operate automatically without 'AUTO' sign.

• For your convenience, use the AUTO button and set the temperature to 73°F (23°C).



## **i** Information

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

## Manual heating and air conditioning

The heating and cooling system can be controlled manually by pushing buttons other than the AUTO button. In this case, the system works sequentially according to the order of buttons selected. When pressing any button except the AUTO button while using automatic operation, the functions not selected will be controlled automatically.

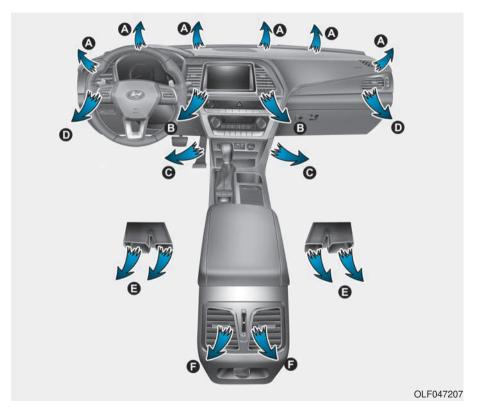
- 1.Start hybrid system.
- 2. Set the mode to the desired position.

For improving the effectiveness of heating and cooling;

- Heating: ✓Cooling: ⋨
- 3.Set the temperature control to the desired position.

- 4. Set the air intake control to the outside (fresh) air position.
- 5.Set the fan speed control to the desired speed.
- 6.If air conditioning is desired, turn the air conditioning system on.

Press the AUTO button in order 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.

The air flow outlet port is converted as follows:





Face-Level (B, D, F)

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



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

Air flow is directed towards the face and the floor.



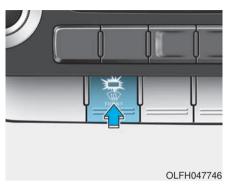
Floor & Defrost (A, C, D, E)

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



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

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



Defrost-Level (A, D)

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



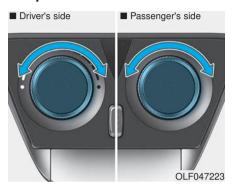


## Instrument panel vents

The outlet vents can be opened or closed separately using the thumb-wheel. To close the vent, rotate it left (Rear : down) to the maximum position. To open the vent, rotate it right (Rear : up) to the desired position.

Also, you can adjust the direction of air delivery from these vents using the vent control lever as shown.

#### Temperature control



Turn the temperature control knob to set the desired temperature.



Adjusting the driver and passenger side temperature equally

- Press the "SYNC" button to adjust the driver and passenger side temperature equally.
  - The passenger side temperature will be set to the same temperature as the driver side temperature.
- Turn the driver side temperature control knob. The driver and passenger side temperature will be adjusted equally.

Adjusting the driver and passenger side temperature individually

- Press the "SYNC" button again to adjust the driver and passenger side temperature individually. The illumination of button turns off.
- Operate the driver side temperature control knob to adjust the driver side temperature.
- Operate the passenger side temperature control knob to adjust the passenger side temperature.

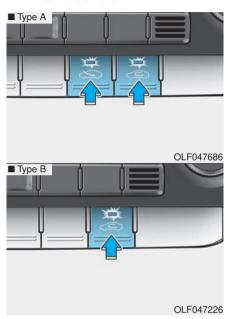
#### **Temperature conversion**

If the battery has been discharged or disconnected, the temperature mode display will reset to Centigrade.

You can switch the temperature mode between Centigrade to Fahrenheit as follows:

- Automatic climate control system While pressing the OFF button. press the AUTO button for 3 seconds or more. The display will change from Centigrade to Fahrenheit, or from Fahrenheit to Centigrade.
- "User setting mode" in the cluster : You can change the temperature unit in the "Other features -Temperature unit"

#### Air intake control



This is used to select the outside (fresh) air position or recirculated air position.

To change the air intake control position, push the control button.

#### Recirculated air position



With the recirculated air position selected, air from the passenger compartment will be drawn through the heating system and heated or cooled according to the function selected

#### Outside (fresh) air position

■ Type A





With the outside (fresh) air position selected, air enters the vehicle from outside and is heated or cooled according to the function selected.

# **i** Information

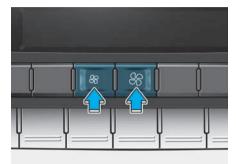
Prolonged operation of the heater in the recirculated air position (without air conditioning selected) may cause fogging of the windshield and side windows and the air within the passenger compartment may become stale.

In addition, prolonged use of the air conditioning with the recirculated air position selected will result in excessively dry air in the passenger compartment.

# **A** WARNING

- Continued climate control system operation in the recirculated air position may allow humidity to increase inside the vehicle which may fog the glass and obscure visibility.
- Do not sleep in a vehicle with the air conditioning or heating system on. It may cause serious harm or death due to a drop in the oxygen level and/or body temperature.
- Continued climate control system operation in the recirculated air position can cause drowsiness or sleepiness, and loss of vehicle control. Set the air intake control to the outside (fresh) air position as much as possible while driving.

## Fan speed control



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The fan speed can be set to the desired speed by pushing the fan speed control button.

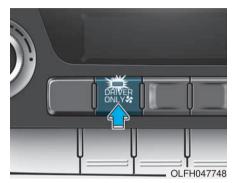
The higher the fan speed is, the more air is delivered.

Pressing the OFF button turns off the fan.

#### NOTICE

Operating the fan speed when the Engine Start/Stop button is in the ON position could cause the battery to discharge. Operate the fan speed when hybrid system is running.

## **Driver Only**



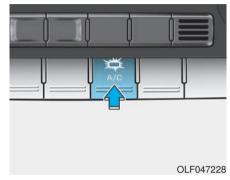
If you press the DRIVER ONLY button(�) and the indicator light illuminates, cold air mostly blows in the direction of the driver's seat. However, some of the cold air may come out of other seats' ducts to keep indoor air pleasant.

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

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

- 1) Defrost on
- 2) SYNC on
- 3) Adjusted front passenger seat temperature
- 4) DRIVER ONLY button re-push

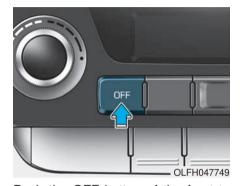
# Air conditioning



Push the A/C button to turn the air conditioning system on (indicator light will illuminate).

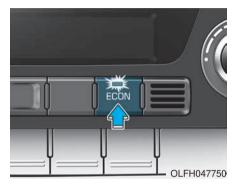
Push the button again to turn the air conditioning system off.

#### OFF mode



Push the OFF button of the front to turn off the air climate control system. However, you can still operate the mode and air intake buttons as long as the Engine Start/Stop button is in the ON position.

# Economy air conditioning button (ECON)



If you push the ECON button while the air conditioning system is working, the air conditioning system will work less and may improve fuel efficiency.

If you want maximum air conditioning turn the ECON system off by pushing the ECON button.

## **System operation**

#### Ventilation

- 1. Set the mode to the 🔀 position.
- 2. Set the air intake control to the outside (fresh) air position.
- 3. Set the temperature control to the desired position.
- 4. Set the fan speed control to the desired speed.

# Heating

- 1. Set the mode to the 🔀 position.
- 2. Set the air intake control to the outside (fresh) air position.
- 3. Set the temperature control to the desired position.
- 4. Set the fan speed control to the desired speed.
- 5. If dehumidified heating is desired, turn the air conditioning system on.
- If the windshield fogs up, set the mode to the or mode to the

#### **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 will help keep the driver alert and comfortable.
- Air for the heating/cooling system is drawn in through the grilles just ahead of the windshield. Care should be taken that these are not blocked by leaves, snow, ice or other obstructions.
- To prevent interior fog on the windshield, set the air intake control to the fresh air position and fan speed to the desired position, turn on the air conditioning system, and adjust the temperature control to desired temperature.

## Air conditioning

HYUNDAI Air Conditioning Systems are filled with R-134a refrigerant.

- 1. Start hybrid system. Push the air conditioning button.
- 2. Set the mode to the 🔀 position.
- 3. Set the air intake control to the outside air or recirculated air position.
- Adjust the fan speed control and temperature control to maintain maximum comfort.

#### NOTICE

- The refrigerant system should only be serviced by trained and certified technicians to insure proper and safe operation.
- The refrigerant system should be serviced in a well-ventilated place.
- The air conditioning evaporator (cooling coil) shall never be repaired or replaced with one removed from a used or salvaged vehicle and new replacement MAC evaporators shall be certified (and labeled) as meeting SAE Standard J2842.

# *i* Information

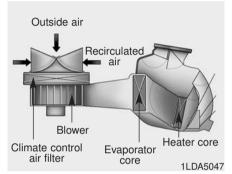
- When using the air conditioning system, monitor the temperature gauge closely while driving up hills or in heavy traffic when outside temperatures are high. Air conditioning system operation may cause engine overheating. Continue to use the blower fan but turn the air conditioning system off if the temperature gauge indicates engine overheating.
- When opening the windows in humid weather air conditioning may create water droplets inside the vehicle. Since excessive water droplets may cause damage to electrical equipment, air conditioning should only be used with the windows closed.

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.
- Use air conditioning to reduce humidity and moisture inside the vehicle on rainy or humid days.
- During air conditioning system operation, you may occasionally notice a slight change in engine speed as the air conditioning compressor cycles. This is a normal system operation characteristic.
- Use the air conditioning system every month only for a few minutes to ensure maximum system performance.
- When using the air conditioning system, you may notice clear water dripping (or even puddling) on the ground under the passenger side of the vehicle. This is a normal system operation characteristic.

- Operating the air conditioning system in the recirculated air position provides maximum cooling, however, continual operation in this mode may cause the air inside the vehicle to become stale.
- During cooling operation, you may occasionally notice a misty air flow because of rapid cooling and humid air intake. This is a normal system operation characteristic.

# System maintenance Climate control air filter



The climate control air filter installed behind the glove box filters the dust or other pollutants that come into the vehicle from the outside through the heating and air conditioning system. If dust or other pollutants accumulate in the filter over a period of time, the air flow from the air vents may decrease, resulting in moisture accumulation on the inside of the windshield even when the outside (fresh) air position is selected. If this happens, we recommend that the climate control air filter be replaced by an authorized HYUNDAI dealer.

# **i** Information

- Replace the filter according to the Maintenance Schedule.
- If the car 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 the system be checked 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 has a bad influence on the air conditioning system.

Therefore, if abnormal operation is found, we recommend that the system be inspected by an authorized HYUNDAI dealer.

# **A** WARNING

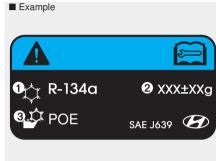


Because the refrigerant is at very high pressure, the air conditioning system should only be serv-

iced by trained and certified technicians. It is important that the correct type and amount of oil and refrigerant is used.

Otherwise, it may cause damage to the vehicle and personal injury.

# Air Conditioning refrigerant label



OLFP046583N

The actual Air Conditioning refrigerant label in the vehicle may differ from the illustration.

The symbols and specifications on the label refer to the following:

- 1. Classification of refrigerant
- 2. Amount of refrigerant
- Classification of Compressor lubricant

Refer to chapter 8 for more detail location of the air conditioning refrigerant label.

#### WINDSHIELD DEFROSTING AND DEFOGGING

# **A** WARNING

#### Windshield heating

Do not use the so or mosition during cooling operation in extremely humid weather. The difference between the temperature of the outside air and that of the windshield could cause the outer surface of the windshield to fog up, causing loss of visibility could cause an accident resulting in serious injury or death. In this case, set the mode selection knob or button to the position and fan speed control knob or button to a lower speed.

- For maximum windshield defrosting, set the temperature control knob to the highest temperature setting and the fan control knob to the highest fan speed. Select the front defrost button on the climate control display. After the engine warm-up period, warm air will be directed to the front windshield.
- If warm air to the floor is desired while defrosting or defogging, set the mode to the floor-defrost position.
- Before driving, clear all snow and ice from the windshield, rear window, outside rear view mirrors, and all side windows.
- Clear all snow and ice from the hood and air inlet in the cowl grill to improve heater and defroster efficiency and to reduce the probability of fogging up the inside of the windshield.
- To reduce tendency of the glass fogging and also to improve visibility, keep the interior surface of the windshield clean by wiping it with a clean cloth and glass cleaner.

#### NOTICE

If the engine temperature is still cold after starting, then a brief engine warm up period may be required for the vented air flow to become warm or hot.

# **Automatic Climate Control System**

# To defog inside windshield

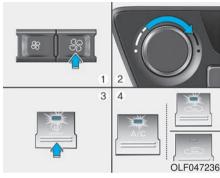


- 1. Select desired fan speed.
- 2. Select desired temperature.
- 3. Press the defroster button ( ).
- 4. The outside (fresh) air position will be selected automatically.

If the outside (fresh) air position is not selected automatically, adjust the corresponding button manually.

If the  $\mbox{$\frac{\mbox{$\mbox{}\mbox{$\mbox$ 

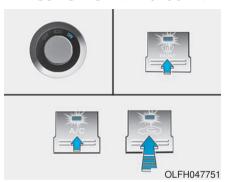
#### To defrost outside windshield



- 1. Set the fan speed to the highest (extreme right) position.
- 2. Set the temperature to the extreme hot (HI) position.
- 3. Press the defroster button ( ).
- 4. The outside (fresh) air position will be selected automatically.

If the  $\mbox{$\frac{\mbox{$\mbox{}\mbox{$\mbox$ 

# **Defogging logic (if equipped)**



To reduce the probability of fogging up the inside of the windshield, the air intake or air conditioning are controlled automatically according to certain conditions such as or mosition. To cancel or return the defogging logic, do the following.

- 1. Press the Engine Start/Stop button to the ON position.
- 2. Press the defroster button ( ).
- While pressing the air conditioning button (A/C), press the air intake control button at least 5 times within 3 seconds.

The recirculation indicator will blink 3 times with 0.5 seconds of interval. It indicates that the defogging logic is canceled or returned to the programmed status.

If the battery has been discharged or disconnected, the defogging logic will be enabled as the default logic.

#### CLIMATE CONTROL ADDITIONAL FEATURES (IF EQUIPPED)

# **Automatic Ventilation** (if equipped)

When the ignition is ON or when the engine is running and the outside temperature is below 59°F (15°C), the automatic ventilation feature will activate if the recirculated air intake position is selected for more than 5 munutes. In this condition the air intake position will automatically switch to the outside (fresh) air intake position.

# To cancel or reset the Automatic Ventilation

When the air conditioning system is on, select Face Level mode and while pressing the A/C button, press the recirculated air position button five times within three seconds.

# **Sunroof Inside Air Recirculation (if equipped)**

When the heater or air conditioning system is on with the sunroof opened, the outside (fresh) air position will be automatically selected. At this time, if you press the recirculated air position button, the recirculated air position will be selected but will change back to the outside (fresh) air position after 3 minutes.

When the sunroof is closed, the air intake position will return to the original position that was selected.

#### STORAGE COMPARTMENT

# **A** WARNING

Never store cigarette lighters, propane cylinders, or other flammable/explosive materials in the vehicle. These items may catch fire and/or explode if the vehicle is exposed to hot temperatures for extended periods.

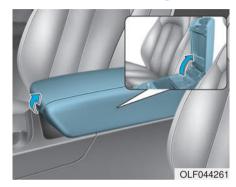
# **A** WARNING

ALWAYS keep the storage compartment covers closed securely while driving. Items inside your vehicle are moving as fast as the vehicle. If you have to stop or turn quickly, or you are involved in an accident, the items may fly out of the compartment and may cause an injury if they strike the driver or passenger.

#### NOTICE

To avoid possible theft, do not leave valuables in the storage compartments.

# **Center Console Storage**



To open: Pull lever (1).

#### **Glove Box**



The glove box can be locked and unlocked with the mechanical key (1).

To open: Pull the lever (2).

# **A** WARNING

ALWAYS close the glove box door after use.

An open glove box door can cause serious injury to the passenger in an accident, even if the passenger is wearing a seat belt.

# **Sunglass Holder**



#### To open:

Press the cover and the holder will slowly open. Place your sunglasses in the compartment door with the lenses facing out.

To close:

Push back into position.

Make sure the sunglass holder is closed while driving.

# **A WARNING**

- Do not keep objects except sunglasses inside the sunglass holder. Such objects can be thrown from the holder in the event of a sudden stop or an accident, possibly injuring the passengers in the vehicle.
- Do not open the sunglass holder while the vehicle is moving. The rear view mirror of the vehicle can be blocked by an open sunglass holder.
- Do not attempt to force sunglasses into the sunglass holder. If the sunglasses become jammed and you try to open it forcibly, personal injury may occur.

#### Multi box



To open the cover, press the cover and it will slowly open. To close the cover, press the cover and it will slowly close.

For the safety of the passengers, when the cover is closed, the cover locks if the vehicle shakes by sudden acceleration and braking.

To unlock the cover, press the cover twice.

## **INTERIOR FEATURES**

# Wireless Cellular Phone Charging System (if equipped)



There is a wireless cellular phone charging inside the front console.

The system is available when all doors are closed, and when the Engine Start/Stop button is in the ACC/ON position.

# To charge a cellular phone

The wireless cellular phone charging system charges only the Qi-enabled cellular phones ( Qi). Read the label on the cellular phone accessory cover or visit your cellular phone manufacturer's website to check whether your cellular phone supports the Qi technology.

The wireless charging process starts when you put a Qi-enabled cellular phone on the wireless charging unit.

- 1. Remove other items, including the smart key, from the wireless charging unit. If not, the wireless charging process may be interrupted.
- 2. The indicator illuminates in orange during the charging process. The indicator color changes to green, when the charging process is completed.
- You can turn ON or OFF the wireless charging function in the user settings mode on the instrument cluster. (For further information, refer to the "LCD Modes" in this chapter.)

Slightly change the cellular phone position, when the cellular phone is not being charged. Make sure that the indicator illuminates in orange. The indicator color may not change to green in accordance with the cellular phone type, even though the charging process is completed. The indicator blinks in orange for 10 seconds when there is a malfunction with the wireless charging system. In this case, temporarily stop the charging process, and re-attempt to wirelessly charge your cellular phone again.

The system warns you with a message on the LCD display when you do not take out the cellular phone from the wireless charging unit with the front door open and the Engine Start/Stop button in the OFF position.

#### NOTICE

- The wireless cellular phone charging system may not support certain cellular phones, which are not verified for the Qi specification (Q)).
- Locate your cell phone well in the middle of the wireless cellular phone charging system.
   Even when your cell phone locates slightly to one side, the charging speed may decrease.
- The wireless charging process may temporarily stop, when a smart key function operates (i.e. starting the engine, opening the doors, closing the doors).
- For certain cell phones, the indicator color may not change to green, even when the wireless charging process is properly completed.

(Continued)

#### (Continued)

- The wireless charging process may temporarily stop, when temperature abnormally increases inside the wireless cellular phone charging system. The wireless charging process restarts, when temperature falls to a proper level.
- The wireless charging process may temporarily stop when there is any metallic item, such as a coin, between the wireless cellular phone charging system and a cellular phone.

# **Cup Holder**



Cups or small beverages cups may be placed in the cup holders.

#### Rear

Pull the armrest down to use the cup holders.

## **A** WARNING

- Avoid abrupt acceleration or braking while driving your vehicle when the cup holder is in use to prevent spilling your drink. If hot liquid spills, you could be burned. Such a burn to the driver could cause loss of vehicle control resulting in an accident.
- Do not place uncovered or unsecured cups, bottles, cans, etc., in the cup holder containing hot liquid while the vehicle is in motion. Injuries may result in the event of sudden stop or collision.

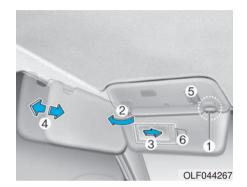
# **A** WARNING

Keep cans or bottles out of direct sunlight and do not leave them in a hot vehicle. Doing so may cause the can or bottle to overheat and explode.

#### NOTICE

- Keep your drinks sealed while driving to prevent spilling your drink. If liquid spills, it may get into the vehicle's electrical/electronic system and damage electrical/electronic parts.
- When cleaning spilled liquids, use a soft cloth. Do not use any type of hot air dryer. Doing so may damage the cup holder.

#### Sunvisor



To use the sunvisor, pull it downward.

To use the sunvisor for a side window, pull it downward, unsnap it from the bracket (1) and swing it to the side (2).

To use the vanity mirror, pull down the sunvisor and slide the mirror cover (3).

Adjust the sunvisor forward or backward (4) as needed. Use the ticket holder (5 and 6) to hold tickets.

#### NOTICE

Close the vanity mirror cover securely and return the sunvisor to its original position after use.

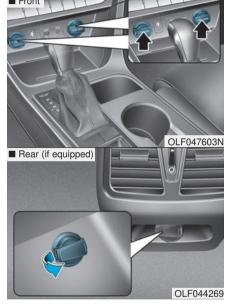
# **A** WARNING

For your safety, do not block your view when using the sunvisor.

#### NOTICE

- Do not put several tickets in the ticket holder at one time. This could cause damage to the ticket holder.
- Avoid putting a plastic card such as a credit card in the ticket holder located in the outside of the sunvisor. This could cause damage to the plastic card.

#### **Power Outlet**



The power outlet is designed to provide power for mobile telephones or other devices designed to operate with vehicle electrical systems. The devices should draw less than 180 W with the engine running.

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 engine is running and remove the accessory plug after use. Using the accessory plug for prolonged periods of time with the engine off could cause the battery to discharge.
- Only use 12V electric accessories which are less than 180 W in electric capacity.
- Adjust the air-conditioner or heater to the lowest operating level when using the power outlet.
- · Close the cover when not in use.
- Some electronic devices can cause electronic interference when plugged into a vehicle's power outlet. These devices may cause excessive audio static and malfunctions in other electronic systems or devices used in your vehicle.

(Continued)

# (Continued)

- Push the plug in as far as it will go. If good contact is not made, the plug may overheat and the fuse may blow.
- Plug in battery equipped electrical/electronic devices with reverse current protection. The current from the battery may flow into the vehicle's electrical/ electronic system and cause system malfunction.

#### Clock

## With AVN system (if equipped)

You can set the clock by using the Navigation system.

#### **GPS** Time check

The clock is automatically updated through the navigation system.

#### **GPS** Time non-check

The clock can be manually adjusted.

- 1. Select the "System Settings" on the "INFO/Setup" screen.
- 2. Select the "Date/Time".
- 3. Select the "Set time" by rotating the controller on the center console panel.
- 4. Select the "Time Format" to the 12 hour or 24 hour format.

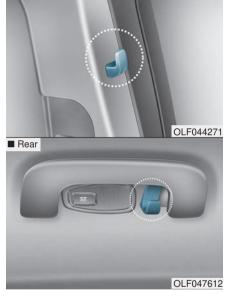
For more information, please refer to the manual that was separately supplied with your vehicle.

# **A** WARNING

Do not adjust the clock while driving, you may lose your steering control and cause an accident that results in severe personal injury or death.

# **Clothes Hanger**

■ Door post

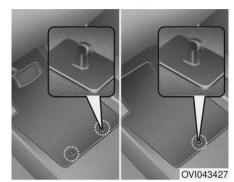


These hangers are not designed to hold large or heavy items.



Do not hang other objects such as hangers or hard objects except clothes. Also, do not put heavy, sharp or breakable objects in the clothe pockets. In an accident or when the curtain air bag is inflated, it may cause vehicle damage or personal injury.

# Floor Mat Anchor(s)



ALWAYS use the Floor Mat Anchors to attach the front floor mats to the vehicle. The anchors on the front floor carpet keep the floor mats from sliding forward.

#### **A** WARNING

The following must be observed when installing ANY floor mat to the vehicle.

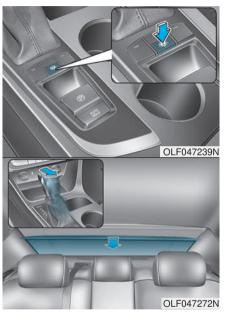
- Ensure that the floor mats are securely attached to the vehicle's floor mat anchor(s) before driving the vehicle.
- Do not use ANY floor mat that cannot be firmly attached to the vehicle's floor mat anchors.
- Do not stack floor mats on top of one another (e.g. all-weather rubber mat on top of a carpeted floor mat). Only a single floor mat should be installed in each position.

(Continued)

#### (Continued)

IMPORTANT - Your vehicle was manufactured with driver's side floor mat anchors that are designed to securely hold the floor mat in place. To avoid any interference with pedal operation, HYUNDAI recommends that the HYUNDAI floor mat designed for use in your vehicle be installed.

# Rear curtain (if equipped)



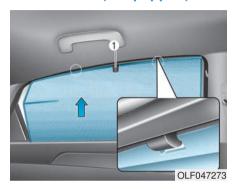
To raise and lower the rear curtain, press the button.

The rear curtain will be lowered automatically when you shift the shift lever into R (Reverse) and raised automatically when you shift the shift lever from R (Reverse) into P (Park). After the rear curtain is lowered by shifting into R (Reverse), if you drive more than 12 mph (20 km/h) with the shift lever in D (Drive), the rear curtain will be raised automatically.

#### NOTICE

Do not apply excessive force while operating the rear curtain. This could cause damage to the rear curtain.

# **Side Curtain (if equipped)**



To use the side curtain:

- 1. Pull up the curtain by the hook (1).
- 2. Hang the curtain on both sides of the hook.

#### NOTICE

- Always hang both sides of the curtain on the hook. This could cause damage to the side curtain if only one side of the curtain is hooked.
- Do not let any foreign material get in between the vehicle and side curtain. The side curtain may not be lifted up.

# Luggage Net Holder (if equipped)



To keep items from shifting in the trunk, you can use the 4 holders located in the trunk to attach the luggage net.

Make sure the luggage net is securely attached to the holders in the trunk.

## **A** WARNING

Avoid eye injury. DO NOT overstretch the luggage net. ALWAYS keep your face and body out of the luggage net's recoil path. DO NOT use the luggage net when the strap has visible signs of wear or damage.

# Multimedia System

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4

#### **MULTIMEDIA SYSTEM**

#### NOTICE

- If you install an aftermarket HID head lamp, your vehicle's audio and electronic device may malfunction.
- Prevent chemicals such as perfume, cosmetic oil, sun cream, hand cleaner, and air freshener from contacting the interior parts because they may cause damage or discoloration.

# AUX, USB and iPod® Port



You can use an AUX port to connect audio devices and an USB port to plug in an USB and also in an iPod® port.

# **i** Information

When using a portable audio device connected to the power outlet, noise may occur during playback. If this happens, use the power source of the portable audio device.

¾ iPod<sup>®</sup> is a trademark of Apple Inc.

#### **Antenna**



# Shark fin antenna (1)

The shark fin antenna will receive the transmit data.

#### Glass antenna (2)

Your vehicle uses a glass antenna to receive both AM and FM signals.

#### NOTICE

- Do not clean the inside of the rear window glass with a cleaner or scraper to remove foreign deposits as this may cause damage to the antenna elements.
- Avoid adding metallic coatings such as Ni, Cd, and so on. These can degrade the receiving AM and FM broadcast signals.

# **Steering Wheel Audio Control**



## NOTICE

Do not operate audio remote control buttons simultaneously.

# *VOLUME (VOL + / - ) (1)*

- Move the VOLUME lever up to increase volume.
- Move the VOLUME lever down to decrease volume

## 

If the SEEK/PRESET lever is moved up or down and held for 0.8 second or more, it will function in the following modes;

#### RADIO mode

It will function as the AUTO SEEK select button. It will SEEK until you release the button.

#### MEDIA mode

It will function as the FF/REW button.

If the SEEK/PRESET lever is moved up or down, it will function in the following modes;

#### **RADIO** mode

It will function as the PRESET STATION UP/DOWN button.

#### **MEDIA** mode

It will function as the TRACK UP/ DOWN button.

## **MODE** (3)

Press the MODE button to select Radio, XM, Disc, or AUX.

# MUTE ( 或 ) (4)

- · Press the button to mute the sound.
- Press the button again to activate the sound.

# **i** Information

Detailed information for audio control buttons are described in the following pages in this chapter.

# Audio (Display Audio) / Video / Navigation System (AVN)

Detailed information for the AVN system is described in a separately supplied manual.

# **Bluetooth® Wireless** Technology Hands-Free







You can use the phone wirelessly by using the *Bluetooth®* Wireless Technology.

- (1) Call / Answer button
- (2) Call end button
- (3) Microphone

Detailed information for the *Bluetooth®* Wireless Technology hands-free is described in the following pages in this chapter or in the manual supplied separately.

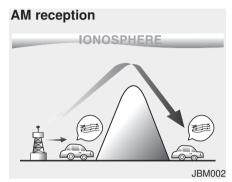
#### How vehicle audio works

# FM reception JBM001

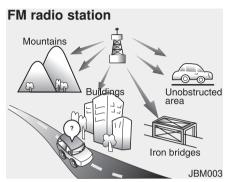
AM and FM radio signals are broadcast from transmitter towers located around your city. They are intercepted by the radio antenna on your vehicle. This signal is then processed by the radio and sent to your vehicle speakers.

When a strong radio signal has reached your vehicle, the precise engineering of your audio system ensures the best possible quality reproduction. However, in some cases the signal coming to your vehicle may not be strong and clear.

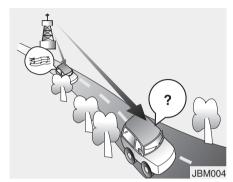
This can be due to factors, such as the distance from the radio station, closeness of other strong radio stations or the presence of buildings, bridges or other large obstructions in the area.



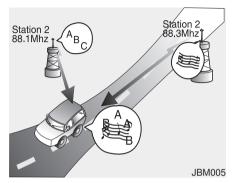
AM broadcasts can be received at greater distances than FM broadcasts. This is because AM radio waves are transmitted at low frequencies. These long distance, low frequency radio waves can follow the curvature of the earth rather than travelling straight. In addition, they curve around obstructions resulting in better signal coverage.



FM broadcasts are transmitted at high frequencies and do not bend to follow the earth's surface. Because of this, FM broadcasts generally begin to fade within short distances from the station. Also, FM signals are easily affected by buildings, mountains, and obstructions. This can lead to undesirable or unpleasant listening conditions which might lead you to believe a problem exists with your radio. The following conditions are normal and do not indicate radio trouble:



- Fading As your vehicle moves away from the radio station, the signal will weaken and sound will begin to fade. When this occurs, we suggest that you select another stronger station.
- Flutter/Static Weak FM signals or large obstructions between the transmitter and your radio can disturb the signal causing static or fluttering noises to occur. Reducing the treble level may lessen this effect until the disturbance clears.

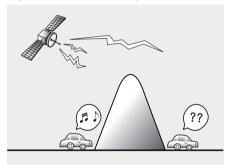


- Station Swapping As an FM signal weakens, another more powerful signal near the same frequency may begin to play. This is because your radio is designed to lock onto the clearest signal. If this occurs, select another station with a stronger signal.
- Multi-Path Cancellation Radio signals being received from several directions can cause distortion or fluttering. This can be caused by a direct and reflected signal from the same station, or by signals from two stations with close frequencies. If this occurs, select another station until the condition has passed.

## Features of your vehicle

#### Satellite radio reception

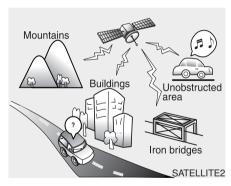
You may experience difficulties in receiving Sirius  $XM^{TM}$  satellite radio signals in the following situations.



SATELLITE1

- If you are driving in a tunnel or a covered parking area.
- If you are driving beneath the top level of a multi-level freeway.
- If you are driving under a bridge.
- If you are driving next to a tall vehicle (such as a truck or a bus) that blocks the signal.
- If you are driving in a valley where the surrounding hills or peaks block the signal from the satellite.

- If you are driving on a mountain road where is the signal blocked by mountains.
- If you are driving in an area with tall trees that block the signal (30 ft. /10m or more), for example on an road that goes through a dense forest.



 The signal can become weak in some areas that are not covered by the Sirius XM<sup>™</sup> repeater network.

# **i** Information

There may also be additional unforeseen circumstances leading to reception problems with the Sirius XM<sup>TM</sup> satellite radio signal.

Advisory Messages, such as 'CH Unavailable' may occur when starting Sirius XM<sup>TM</sup> Radio.

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#### Carbon monoxide (CO) gas is toxic. Breathing CO can cause unconsciousness and death.

Engine exhaust contains carbon monoxide which cannot be seen or smelled.

### Do not inhale engine exhaust.

If at any time you smell engine exhaust inside the vehicle, open the windows immediately. Exposure to CO can cause unconsciousness and death by asphyxiation.

#### Be sure the exhaust system does not leak.

The exhaust system should be checked whenever the vehicle is raised to change the oil or for any other purpose. If you hear a change in the sound of the exhaust or if you drive over something that strikes the underneath side of the vehicle, have the exhaust system checked as soon as possible by an authorized HYUNDAI dealer.

#### Do not run the engine in an enclosed area.

Letting the engine idle in your garage, even with the garage door open, is a hazardous practice. Run the engine only long enough to start the engine and to move the vehicle out of the garage.

#### Avoid idling the engine for prolonged periods with people inside the vehicle.

If it is necessary to idle the engine for a prolonged period with people inside the vehicle, be sure to do so only in an open area with the air intake set at "Fresh" and fan control set to high so fresh air is drawn into the interior.

#### Keep the air intakes clear.

To assure proper operation of the ventilation system, keep the ventilation air intakes located in front of the windshield clear of snow, ice, leaves, or other obstructions.

#### If you must drive with the trunk open:

Close all windows.

Open instrument panel air vents.

Set the air intake control at "Fresh", the air flow control at "Floor" or "Face", and the fan control set to high.

# CALIFORNIA PROPOSITION 65 WARNING

Engine exhaust and a wide variety of automobile components including components found in the interior furnishings in a vehicle, contain or emit harmful chemicals known to the State of California to cause cancer and birth defects and reproductive harm. In addition, certain fluids contained in vehicles and certain products of components contain or emit chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

#### **BEFORE DRIVING**

## Before entering the vehicle

- Be sure all windows, outside mirror(s), and outside lights are clean and unobstructed.
- · Remove frost, snow, or ice.
- Visually check the tires for uneven wear and damage.
- Check under the vehicle for any sign of leaks.
- Be sure there are no obstacles behind you if you intend to back up.

# **Before starting**

- Make sure the hood, the trunk, and the doors are securely closed and locked.
- Adjust the position of the seat and steering wheel.
- Adjust the inside and outside rearview mirrors.
- Verify all the lights work.
- Fasten your seatbelt. Check that all passengers have fastened their seatbelts.

- Check the gauges and indicators in the instrument panel and the messages on the instrument display when the ignition switch is in the ON position.
- Check that any items you are carrying are stored properly or fastened down securely.

# **A** WARNING

To reduce the risk of SERIOUS INJURY or DEATH, take the following precautions:

- ALWAYS wear your seat belt. All passengers must be properly belted whenever the vehicle is moving. For more information, refer to "Seat Belts" in chapter 2.
- Always drive defensively. Assume other drivers or pedestrians may be careless and make mistakes.
- Stay focused on the task of driving. Driver distraction can cause accidents.
- Leave plenty of space between you and the vehicle in front of you.

NEVER drink or take drugs and drive.

Drinking or taking drugs and driving is dangerous and may result in an accident and SERI-OUS 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.

(Continued)

# (Continued)

You are much more likely to have a serious accident if you drink or take drugs and drive. If you are drinking or taking drugs, don't drive. Do not ride with a driver who has been drinking or taking drugs. Choose a designated driver or call a taxi.

# ENGINE START/STOP BUT-TON

# **A** WARNING

To reduce the risk of SERIOUS INJURY or DEATH, take the following precautions:

- NEVER allow children or any person who is unfamiliar with the vehicle to touch the Engine Start/Stop button or related parts. Unexpected and sudden vehicle movement can occur.
- NEVER reach through the steering wheel for the Engine 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.

# Illuminated Engine Start/Stop button



Whenever the front door is opened, the Engine Start/Stop button will illuminate and will go off 30 seconds after the door is closed.

# **A** WARNING

To turn the hybrid system off in an emergency:

Press and hold the Engine Start/Stop button for more than two seconds OR rapidly press and release the Engine Start/Stop button three times (within three seconds).

If the vehicle is still moving, you can restart the hybrid system without depressing the brake pedal by pressing the Engine Start/Stop button with the shift lever in the N (Neutral) position.

# **A** WARNING

- NEVER press the Engine Start/Stop button while the vehicle is in motion except in an emergency. This will result in the hybrid system 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 shift lever is in the P (Park) position, set the parking brake, press the Engine 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.

# **Engine Stop/Start button positions**

<b>Button Position</b>	Action	Notice
OFF  ACC ON ENGINE START STOP	To turn off the hybrid system, press the Engine Start/Stop button with shift lever in P (Park).  When you press the Engine Start/Stop button without the shift lever in P (Park), the Engine Start/Stop button does not turn to the OFF position, but turns to the ACC position.	
ACC  ACC  ENGINE START STOP	Press the Engine Start/Stop button when the button is in the OFF position without depressing the brake pedal.  Electrical accessories are usable.	If you leave the Engine Start/Stop button in the ACC position for more than one hour, the battery power will turn off automatically to prevent the battery from discharging.

<b>Button Position</b>	Action	Notice
ON  ACC  ENGINE START STOP	Press the Engine Start/Stop button while it is in the ACC position without depressing the brake pedal.  The warning lights can be checked before the hybrid system is started.	Do not leave the Engine Start/Stop button in the ON position when the hybrid system is not running to prevent the battery from discharging.
START  ACC  ENGINE START STOP	To start the hybrid system, depress the brake pedal and press the Engine Start/Stop button with the shift lever in the P (Park) position.	If you press the Engine Start/Stop button without depressing the brake pedal, the hybrid system does not start and the Engine Start/Stop button changes as follows:  OFF → ACC → ON → OFF or ACC

## Starting the hybrid system

## **A** WARNING

- Always wear appropriate shoes when operating your vehicle. Unsuitable shoes, such as high heels, ski boots, sandals, flipflops, etc., may interfere with vour ability to use the brake and accelerator pedals.
- · Do not start the vehicle with the accelerator pedal depressed.

to an accident.

The vehicle can move and lead

# **1** Information

- The hybrid system will start by pressing the Engine Start/Stop button, only when the smart key is in the vehicle.
- Even when the smart key is in the vehicle, and when it is far away from the driver, the hybrid system may not start.
- When the Engine Start/Stop button is in the ACC or ON position, if any door is open, the system checks for the smart key. If the smart key is not in the vehicle, the " - " indicator will blink and the warning "Key not in vehicle" will come on. If all doors are closed, the chime will also sound for about 5 seconds. Keep the smart kev in the vehicle when in the ACC position or if the hybrid system is ON.

- 1. Always carry the smart key with you.
- 2. Make sure the parking brake is applied.
- 3. Make sure the shift lever is in P. (Park).
- 4. Depress the brake pedal.
- 5 Press the Engine Start/Stop button. If the hybrid system starts, the " = " indicator will come on.

## *i* Information

 Do not wait for the engine to warm up while the vehicle remains stationary.

Start driving at moderate engine speeds. (Steep accelerating and decelerating should be avoided.)

- Always start the vehicle with your foot on the brake pedal. Do not depress the accelerator while starting the vehicle. Do not race the engine 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 "=" indicator turns off while you are in motion, do not attempt to move the shift lever to the P (Park) position.
  - If traffic and road conditions permit, you may put the shift lever in the N (Neutral) position while the vehicle is still moving and press the Engine Start/Stop button in an attempt to restart the hybrid system.
- Do not push or tow your vehicle to start the hybrid system.

### NOTICE

To prevent damage to the vehicle: Do not press the Engine Start/Stop button for more than 10 seconds

except when the stop lamp fuse is blown.

When the stop lamp fuse is blown, you cannot normally start the hybrid system. Replace the fuse

hybrid system. Replace the fuse with a new one. If you are not able to replace the fuse, you can start the hybrid system by pressing and holding the Engine Start/Stop button for 10 seconds with the Engine Start/Stop button in the ACC position.

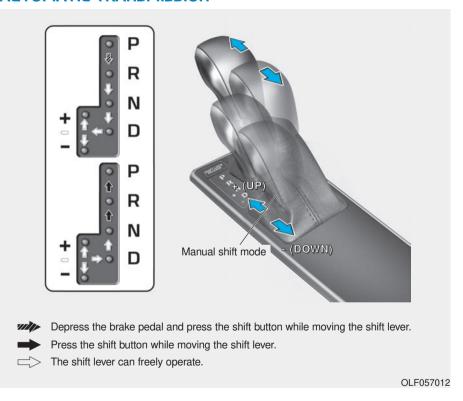
For your safety always depress the brake pedal before starting the hybrid system.



# *i* Information

If the smart key battery is weak or the smart key does not work correctly, you can start the hybrid system by pressing the Engine Start/Stop button with the smart key in the direction of the picture above.

## **AUTOMATIC TRANSMISSION**



# **Automatic transmission operation**

The automatic transmission has 6 forward speeds and one reverse speed.

The individual speeds are selected automatically in the D (Drive) position.

## **A** 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 shift lever is in the P (Park) position, then set the parking brake, and place the Engine Start/Stop button in the OFF position. Unexpected and sudden vehicle movement can occur if these precautions are not followed.
- Do not use the engine brake (shifting from a high gear to lower gear) rapidly on slippery roads. The vehicle may slip causing an accident.
- When using Manual Shift Mode: Do not shift from a high gear to lower gear rapidly on slippery roads. The vehicle may slip causing an accident.

The indicator in the instrument cluster displays the shift lever position when the Engine Start/Stop button is in the ON position.

## P (Park)

Always come to a complete stop before shifting into P (Park).

To shift from P (Park), you must depress firmly on the brake pedal and make sure your foot is off the accelerator pedal.

If you have done all of the above and still cannot shift the lever out of P (Park), see "Shift-Lock Release" in this chapter.

The shift lever must be in P (Park) before turning the hybrid system off.

## **A** WARNING

- Shifting into P (Park) while the vehicle is in motion may cause you to lose control of the vehicle.
- After the vehicle has stopped, always make sure the shift lever is in P (Park), apply the parking brake, and turn the hybrid system off.
- Do not use the P (Park) position in place of the parking brake.

## R (Reverse)

Use this position to drive the vehicle backward.

## NOTICE

Always come to a complete stop before shifting into or out of R (Reverse); you may damage the transmission if you shift into R (Reverse) while the vehicle is in motion.

## N (Neutral)

The wheels and transmission are not engaged. The vehicle will roll freely even on the slightest incline unless the parking brake or service brakes are applied.

## **A** WARNING

Do not drive with the shift lever in N (Neutral).

The engine brake will not work and lead to an accident.

## D (Drive)

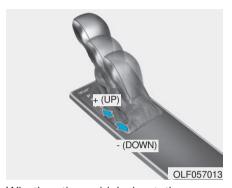
This is the normal driving position. The transmission will automatically shift through a 6-gear sequence, providing the best fuel economy and power.

For extra power when passing another vehicle or driving uphill, depress the accelerator fully. The transmission will automatically downshift to the next lower gear (or gears, as appropriate).

The DRIVE MODE switch, located on the shift lever console, allows the driver to switch from NORMAL mode to SPORT or ECO mode.

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

#### Manual shift mode



Whether the vehicle is stationary or in motion, manual shift mode is selected by pushing the shift lever from the D (Drive) position into the manual gate. To return to D (Drive) range operation, push the shift lever back into the main gate.

In Manual Shift Mode, moving the shift lever backwards and forwards will allow you to select the desired range of gears for the current driving conditions.

- + (Up) : Push the lever forward once to shift up one gear.
- (Down): Pull the lever backwards once to shift down one gear.

# Information

- Only the six forward gears can be selected. To reverse or park the vehicle, move the shift lever to the R (Reverse) or P (Park) position as required.
- Downshifts are made automatically when the vehicle slows down. When the vehicle stops, 1st gear is automatically selected.
- In manual shift mode, the driver must execute upshifts in accordance with road conditions.

(Continued)

#### (Continued)

- To maintain the required levels of vehicle performance and safety, the system may not execute certain gearshifts when the shift lever is operated.
- When driving on a slippery road, push the shift lever forward into the + (Up) position. This causes the transmission to shift into the 2nd gear which is better for smooth driving on a slippery road. Push the shift lever to the (Down) side to shift back to the 1st gear.
- When accelerating from a stop on a slippery road, push the shift lever forward into the + (Up) position. This causes the transmission to shift into the 2nd gear which is better for smooth driving on a slippery road. Push the shift lever to the (Down) side to shift back to the 1st gear.

## Shift-lock system

For your safety, the automatic transmission has a shift-lock system which prevents shifting the transmission from P (Park) into R (Reverse) unless the brake pedal is depressed.

To shift the transmission from P (Park) into R (Reverse):

- 1. Depress and hold the brake pedal.
- Start the hybrid system or place the Engine Start/Stop button in the ON position.
- 3. Move the shift lever.

#### Shift-lock release

If the shift lever cannot be moved from the P (Park) position into R (Reverse) position with the brake pedal depressed, continue depressing the brake, and then do the following:



- 1. Place the Engine Start/Stop button in the OFF position.
- 2. Apply the parking brake.
- 3. Carefully remove the cap (1) covering the shift-lock access hole.
- 4. Insert a tool (e.g. flathead screwdriver) into the access hole and press down on the tool.
- 5. Move the shift lever while holding down the screwdriver.
- Remove the tool from the shiftlock override access hole then install the cap.

If you need to use the shift-lock release, have the system inspected by an authorized HYUNDAI dealer immediately.

## **Parking**

Always come to a complete stop and continue to depress the brake pedal. Move the shift lever into the P (Park) position, apply the parking brake, and place the Engine Start/Stop button in the OFF position. Take the Key with you when exiting the vehicle.

## **A** WARNING

When you stay in the vehicle with the engine running, be careful not to depress the accelerator pedal for a long period of time. The engine or exhaust system may overheat and start a fire.

The exhaust gas and the exhaust system are very hot. Keep away from the exhaust system components.

Do not stop or park over flammable materials, such as dry grass, paper or leaves. They may ignite and cause a fire.

## **Good driving practices**

- Never move the shift lever from P (Park) or N (Neutral) to any other position with the accelerator pedal depressed.
- Never move the shift lever into P (Park) when the vehicle is in motion.

Be sure the vehicle is completely stopped before you attempt to shift into R (Reverse) or D (Drive).

- Do not move the shift lever to N (Neutral) when driving. Doing so may result in an accident because of a loss of engine braking and the transmission could be damaged.
- 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 transmission 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.

## **A** WARNING

To reduce the risk of SERIOUS INJURY or DEATH:

- ALWAYS wear your seatbelt. 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.

(Continued)

## (Continued)

- In the event your vehicle leaves the roadway, do not steer sharply. Instead, slow down before pulling back into the travel lanes.
- HYUNDAI recommends you follow all posted speed limits.

# i Information - Kickdown Mechanism

Use the kickdown mechanism for maximum acceleration. Depress the accelerator pedal beyond the pressure point. The automatic transmission will shift to a lower gear depending on the engine speed.

#### **BRAKING SYSTEM**

#### **Power brakes**

Your vehicle has power-assisted brakes that adjust automatically through normal usage.

If the hybrid system is not on or is turned off while driving, the power assist for the brakes will not work. You can still stop your vehicle by applying greater force to the brake pedal than typical. The stopping distance, however, will be longer than with power brakes.

When the hybrid system is not on, the reserve brake power is partially depleted each time the brake pedal is applied. Do not pump the brake pedal when the power assist has been interrupted.

Pump the brake pedal only when necessary to maintain steering control on slippery surfaces.

## **A** WARNING

Take the following precautions:

- Do not drive with your foot resting on the brake pedal. This will create abnormal high brake temperatures, excessive brake lining and pad wear, and increased stopping distances.
- When descending down a long or steep hill, move the gear shift lever to Manual Shift Mode and manually downshift to a lower gear in order to control your speed without using the brake pedal excessively. Applying the brakes continuously will cause the brakes to overheat and could result in a temporary loss of braking performance.

(Continued)

## (Continued)

 Wet brakes may impair the vehicle's ability to safely slow down: the vehicle may also pull to one side when the brakes are applied. Applying the brakes lightly will indicate whether they have been affected in this way. Always test your brakes in this fashion after driving through deep water. To dry the brakes, lightly tap the brake pedal to heat up the brakes while maintaining a safe forward speed until brake performance returns to normal. Avoid driving at high speeds until the brakes function correctly.

## NOTICE

Do not depress the brake pedal continuously without the "=" indicator ON. The battery may be discharged.

#### Disc brakes wear indicator

When your brake pads are worn out and new pads are required, you will hear a high pitched warning sound from your front or rear brakes. You may hear this sound come and go or it may occur whenever you depress the brake pedal.

Note that some driving conditions or climates may cause a brake squeal when you first apply (or lightly apply) the brakes. This is normal and does not indicate a problem with your brakes.

## NOTICE

To avoid costly brake repairs, do not continue to drive with worn brake pads.

# **i** Information

Always replace brake pads as complete front or rear axle sets.

# Foot parking brake (if equipped)

## Applying the parking brake



To engage the parking brake, first apply the foot brake and then depress the parking brake pedal down as far as possible.

## **A** WARNING

To reduce the risk of SERIOUS INJURY or DEATH, do not operate the parking brake while the vehicle is moving except in an emergency situation. It could damage the brake system and lead to an accident.

## Releasing the parking brake



To release:

Firmly depress the brake pedal.

Depress the parking brake pedal down and it will release automatically.

If the parking brake does not release or does not release all the way, have the system checked by an authorized HYUNDAI dealer.

## **A** WARNING

 Whenever leaving the vehicle or parking, always come to a complete stop and continue to depress the brake pedal. Move the shift lever into the P (Park) position, then apply the parking brake, and place the Engine Start/Stop button in the OFF position.

Vehicles with the parking brake not fully engaged are at risk for moving inadvertently and causing injury to yourself or others.

- NEVER allow anyone who is unfamiliar with the vehicle to touch the parking brake. If the parking brake is released unintentionally, serious injury may occur.
- Only release the parking brake when you are seated inside the vehicle with your foot firmly on the brake pedal.

## NOTICE

- Do not apply the accelerator pedal while the parking brake is engaged. If you depress the accelerator pedal with the parking brake engaged, warning will sound. Damage to the parking brake may occur.
- Driving with the parking brake on can overheat the braking system and cause premature wear or damage to brake parts. Make sure the parking brake is released and the Brake Warning Light is off before driving.



Check the Parking Brake Warning Light by placing the Engine Start/Stop button to the ON position (do not start the hybrid system).

This light will be illuminated when the parking brake is applied with the Engine Start/Stop button in the START or ON position.

Before driving, be sure the parking brake is released and the Brake Warning Light is OFF.

If the Parking Brake Warning Light remains on after the parking brake is released while hybrid system is ON, there may be a malfunction in the brake system. Immediate attention is necessary.

If at all possible, cease driving the vehicle immediately. If that is not possible, use extreme caution while operating the vehicle and only continue to drive the vehicle until you can reach a safe location.

# Electronic Parking Brake (EPB) (if equipped)

## Applying the parking brake



## To apply the EPB:

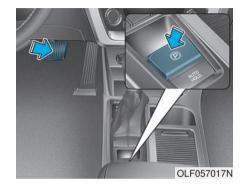
- 1. Depress the brake pedal.
- 2. Pull upwards on the EPB switch. Make sure the Parking Brake Warning Light ( ), red color) comes on.

Also, the EPB is applied automatically if the [AUTO HOLD] switch is on when the engine is turned off. However, to prevent the EPB from being automatically applied, turn off the AUTO HOLD before turning off the vehicle.

## **A** WARNING

To reduce the risk of SERIOUS INJURY or DEATH, do not operate the EPB while the vehicle is moving except in an emergency situation. It could damage the brake system and lead to an accident.

## Releasing the parking brake



To release the EPB With the Engine Start/Stop button in the ON position.

- 1. Depress the brake pedal and hold.
- 2. Press the EPB switch downwards. Make sure the Parking Brake Warning Light ( DP RAME, red color) goes off.

## To release EPB automatically:

- Shift lever in P (Park)
   With the engine running depress the brake pedal and shift out of P (Park) to R (Reverse) or D (Drive).
- Shift lever in N (Neutral)
   With the engine running depress the brake pedal and shift out of N (Neutral) to R (Reverse) or D (Drive).

Make sure the Parking Brake Warning light  $(\mathbb{G})^{(\mathbb{B})}$ , red color) goes off.

# **i** Information

- For your safety, you can engage the EPB even though the Engine Stop/Start button is in the OFF position, but you cannot release it.
- For your safety, depress the brake pedal and release the parking brake manually with the EPB switch when you drive downhill or when backing up the vehicle.

## NOTICE

- If the parking brake warning light (<sup>(1)</sup><sub>BRAKE</sub>), red color) is still on even though the EPB has been released, have the system checked by an authorized HYUNDAI dealer.
- Do not drive your vehicle with the EPB applied. It may cause excessive brake pad and brake rotor wear.

#### When the EPB does not release:

Contact an authorized HYUNDAI dealer by loading the vehicle on a flatbed tow truck and have the system checked.

# EPB may be automatically applied when:

- · The EPB is overheated
- It is requested by other systems
- The hybrid system is turned off when the Auto Hold switch is on.

# **i** Information



If the driver turns the hybrid system off while Auto Hold is operating, EPB will be automatically applied.

However, to prevent the EPB from being automatically applied, turn off the AUTO HOLD before turning off the vehicle.

### Warning messages



To release EPB, fasten seatbelt, close door, hood and trunk

- If you try to drive with the EPB applied, a warning will sound and a message will appear.
- If the driver's seat belt is unfastened and the engine hood or trunk is opened, a warning will sound and a message will appear.
- If there is a problem with the vehicle, a warning may sound and a message may appear.

If the situation occurs, depress the brake pedal and release EPB by pressing the EPB switch.

## **A WARNING**

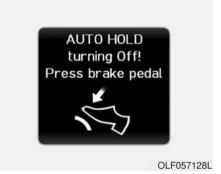
- Whenever leaving the vehicle or parking, always come to a complete stop and continue to depress the brake pedal.
- Move the shift lever into the P (Park) position, pull up the EPB switch, and press the Engine Start/Stop button to the OFF position. Take the Smart Key with you when exiting the vehicle.
- Vehicles not fully engaged in P (Park) with the parking brake set are at risk for moving inadvertently and causing injury to yourself or others.
- NEVER allow anyone who is unfamiliar with the vehicle to touch the EPB switch. If the EPB is released unintentionally, serious injury may occur.
- Only release the EPB when you are seated inside the vehicle with your foot firmly on the brake pedal.

#### NOTICE

- Do not apply the accelerator pedal while the parking brake is engaged. If you depress the accelerator pedal with the EPB engaged, a warning will sound.
- Driving with the parking brake on can overheat the braking system and cause premature wear or damage to brake parts. Make sure the EPB is released and the parking brake warning light ( RAME), red color) is off before driving.

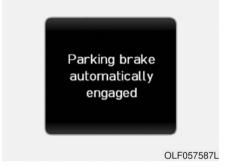
## **i** Information

- A clicking sound may be heard while operating or releasing the EPB. These conditions are normal and indicate that the 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.



**AUTO HOLD turning Off!** Press brake pedal

When the conversion from Auto Hold to EPB is not working properly a warning will sound and a message will appear.



Parking brake automatically engaged

If the EPB is applied while Auto Hold is activated, a warning will sound and a message will appear.

# EPB malfunction indicator (if equipped)



This warning light illuminates if the Engine Start/Stop button is changed to the ON position and goes off in approximately 3 seconds if the system is operating normally.

If the EPB malfunction indicator remains on, comes on while driving, or does not come on when the Engine Start/Stop button is changed to the ON position, this indicates that the EPB may have malfunctioned.

If this occurs, have the system checked by an authorized HYUNDAI dealer.

The EPB malfunction indicator may illuminate when the ESC indicator comes on to indicate that the ESC is not working properly, but it does not indicate a malfunction of the EPB.

#### NOTICE

- If the EPB warning light is still on, we recommend that the system be checked by an authorized HYUNDAI dealer.
- If the parking brake warning light (⊕, red color) does not illuminate or blinks even though the EPB switch was pulled up, the EPB may not be applied.
- If the parking brake warning light (①DP), red color) 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, have the system checked by an authorized HYUNDAI dealer.

## 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.

## **A** WARNING

Do not operate the parking brake while the vehicle is moving except in an emergency situation. It could damage the brake system and lead to a severe accident.

# **i** Information

During emergency braking the parking brake warning light  $\binom{\text{(D)}}{\text{BPACE}}$ , red color) will illuminate to indicate the system is operating.

## NOTICE

If there is a noise or burning smell after using the emergency brake, have your vehicle checked by an authorized HYUNDAI dealer as soon as possible.

#### When the EPB does not release

If the EPB does not release normally, contact an authorized HYUNDAI dealer by loading the vehicle on a flatbed tow truck and have the system checked.

## **AUTO HOLD (if equipped)**

This feature helps keep the brake applied when the shift lever is in D (Drive), N (Neutral) or Manual Shift Mode with the feature enabled and when the brake pedal has been depressed to stop the vehicle.

## To apply:



 With the driver's door and the engine hood closed, fasten the driver's seat belt or depress the brake pedal and then press the [AUTO HOLD] switch. The white "AUTO HOLD" indicator will come on and the system will be in the standby position.



- When you stop the vehicle completely by depressing the brake pedal, the "AUTO HOLD" indicator changes from white to green.
- The vehicle will remain stationary even if you release the brake pedal.
- 4. If EPB is applied, Auto Hold will be released.

#### To release:

If you press the accelerator pedal with the shift lever in D (Drive) or Manual Shift Mode, the Auto Hold will be released automatically and the vehicle will start to move. The indicator changes from green to white.

## **A** WARNING

When the AUTO HOLD is automatically released by depressing the accelerator pedal, always take a look around your vehicle. Slowly depress the accelerator pedal for a smooth start.

#### To cancel:



- 1. Depress the brake pedal.
- 2. Press the [AUTO HOLD] switch. The "AUTO HOLD" indicator will turn off.

## **A** WARNING

To prevent, unexpected and sudden vehicle movement, ALWAYS press your foot on the brake pedal to cancel the Auto Hold before you:

- Drive downhill.
- Drive the vehicle in R (Reverse).
- Park the vehicle.

# **i** Information

- The Auto Hold does not operate when:
  - The driver's seat belt is unfastened and driver's door is opened
  - The engine hood is opened
  - The shift lever is in P (Park) or R (Reverse)
  - The EPB is applied
- For your safety, the Auto Hold automatically switches to EPB when:
  - The driver's seat belt is unfastened and driver's door is opened
  - The engine hood is opened with the shift lever is in D (Drive)
  - The vehicle stops for more than 10 minutes
  - The vehicle stands on a steep slope
  - The vehicle moves several times (Continued)

### (Continued)

In these cases, the parking brake warning light (DP), red color) illuminates, the "AUTO HOLD" indicator color changes from green to white, and a message will be displayed with warning sound to inform you that EPB is automatically applied.

- If the "AUTO HOLD" indicator changes to yellow, the Auto Hold is not working properly. Contact an authorized HYUNDAI dealer.
- While operating Auto Hold, you may hear mechanical noise. However, it is normal operating noise.

## **A** WARNING

- Press the accelerator pedal slowly when you start the vehicle.
- For your safety, cancel the Auto Hold when you drive downhill, back up the vehicle or park the vehicle.

#### NOTICE

If there is a malfunction with the driver's door and engine hood open detection system, the Auto Hold may not work properly.

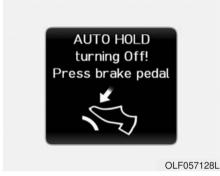
Contact an authorized HYUNDAI dealer.

## Warning messages



Parking brake automatically engaged

When the EPB is applied from Auto Hold, a warning will sound and a message will appear.



# **AUTO HOLD turning Off! Press brake pedal**

When the conversion from Auto Hold to EPB is not working properly a warning will sound and a message will appear.

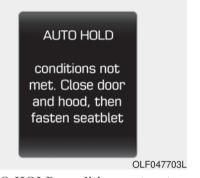
## NOTICE

When this message is displayed, the Auto Hold and EPB may not operate. 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 the Auto Hold by pressing the [AUTO HOLD] switch, a warning will sound and a message will appear.



AUTO HOLD conditions not met. Close door and hood, then fasten seatbelt

When you press the [AUTO HOLD] switch, if the driver's door and the engine hood are not closed or the driver's seat belt is unfastened, a warning will sound and a message will appear on the LCD display. Press the [AUTO HOLD] button again after closing the driver's door, engine hood and trunk and fastening the seat belt.

## **Anti-lock Brake System (ABS)**

## **A** WARNING

An Anti-Lock Braking System (ABS) or an Electronic Stability Control (ESC) system will not prevent accidents due to improper or dangerous driving maneuvers. Even though vehicle control is improved during emergency braking, always maintain a safe distance between you and objects ahead of you. Vehicle speeds should always be reduced during extreme road conditions. The braking distance for cars equipped with ABS or ESC may be longer than for those without these systems in the following road conditions.

- Drive your vehicle at reduced speeds during the following conditions:
- Rough, gravel or snow-covered roads.

(Continued)

## (Continued)

- On roads where the road surface is pitted or has different surface height.
- Tire chains are installed on your vehicle.

The safety features of an ABS or ESC equipped vehicle should not be tested by high speed driving or cornering. This could endanger the safety of yourself or others.

ABS is an electronic braking system that helps prevent a braking skid. ABS allows the driver to steer and brake at the same time.

## Using ABS

To obtain the maximum benefit from your ABS in an emergency situation, do not attempt to modulate your brake pressure and do not try to pump your brakes. Depress your brake pedal as hard as possible.

When you apply your brakes under conditions which may lock the wheels, you may hear sounds from the brakes, or feel a corresponding sensation in the brake pedal. This is normal and it means your ABS is active.

ABS does not reduce the time or distance it takes to stop the vehicle.

Always maintain a safe distance from the vehicle in front of you.

ABS will not prevent a skid that results from sudden changes in direction, such as trying to take a corner too fast or making a sudden lane change. Always drive at a safe speed for the road and weather conditions.

ABS cannot prevent a loss of stability. Always steer moderately when braking hard. Severe or sharp steering wheel movement can still cause your vehicle to veer into oncoming traffic or off the road.

On loose or uneven road surfaces, operation of the anti-lock brake system may result in a longer stopping distance than for vehicles equipped with a conventional brake system.

The ABS warning light ((Image)) will stay on for several seconds after the Engine Start/Stop button is in the ON position. During that time, the ABS will go through self-diagnosis and the light will go off if everything is normal. If the light stays on, you may have a problem with your ABS. Contact an authorized HYUNDAI dealer as soon as possible.

## **A** WARNING

If the ABS warning light (((\*\*\*)) is on and stays on, you may have a problem with the ABS. Your power brakes will work normally. To reduce the risk of serious injury or death, contact your HYUNDAI dealer as soon as possible.

#### NOTICE

When you drive on a road having poor traction, such as an icy road, and apply your brakes continuously, the ABS will be active continuously and the ABS warning light ((ABS)) may illuminate. Pull your car over to a safe place and turn the engine off.

Restart the engine. If the ABS warning light is off, then your ABS system is normal.

Otherwise, you may have a problem with your ABS system. Contact an authorized HYUNDAI dealer as soon as possible.

# **i** Information

When you jump start your vehicle because of a drained battery, the ABS warning light (((as))) may turn on at the same time. This happens because of the low battery voltage. It does not mean your ABS is malfunctioning. Have the battery recharged before driving the vehicle.

# **Electronic Stability Control** (ESC)



(ESC) system helps to stabilize the vehicle during cornering maneuvers. ESC checks where you are steering and where the vehicle is actually going. ESC applies braking pressure to any one of the vehicle's brakes and intervenes in the engine management 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

The Electronic Stability Control

## **A** WARNING

Never drive too fast for the road conditions or too quickly when cornering. The ESC system will not prevent accidents.

Excessive speed in turns, abrupt maneuvers, and hydroplaning on wet surfaces can result in severe accidents.

## ESC operation

**ESC ON condition** 

When the Engine Start/Stop button is in the ON position, the ESC and the ESC OFF indicator lights illuminate for approximately three seconds and goes off, then the ESC is turned on.

road conditions.

### When operating



When the Engine Start/Stop button is in the ON position, the ESC and the ESC OFF indicator lights illuminate for approximately three seconds. After both lights go off, the ESC is enabled.

- When you apply your brakes under conditions which may lock the wheels, you may hear sounds from the brakes, or feel a corresponding sensation in the brake pedal. This is normal and it means your ESC is active.
- When the ESC activates, the engine may not respond to the accelerator as it does under routine conditions.
- If the Cruise Control was in use when the ESC activates, the Cruise Control automatically disengages.
   The Cruise Control can be reengaged when the road conditions allow. See "Cruise Control System" later in this chapter.

 When moving out of the mud or driving on a slippery road, the engine rpm (revolutions per minute) may not increase even if you press the accelerator pedal deeply. This is to maintain the stability and traction of the vehicle and does not indicate a problem.

#### **ESC OFF condition**



To cancel ESC operation:

State 1



Press the ESC OFF button briefly. The ESC OFF indicator light and message will illuminate. In this state, the traction control function of ESC (engine management) is disabled, but the brake control function of ESC (braking management) still operates.

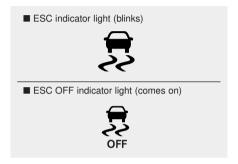
#### • State 2



Press the ESC OFF button continuously for more than 3 seconds. The ESC OFF indicator light and message illuminates and a warning chime sounds. In this state, both the traction control function of ESC (engine management) and the brake control function of ESC (braking management) are disabled.

If the Engine Start/Stop button is placed to the OFF position when ESC is off, ESC remains off. Upon restarting the engine, the ESC will automatically turn on again.

## Indicator lights



When the Engine Start/Stop button is pressed to the ON position, the ESC indicator light illuminates, then goes off if the ESC system is operating normally.

The ESC indicator light blinks whenever the ESC is operating.

If ESC indicator light stays on, your vehicle may have a malfunction with the ESC system. When this warning light illuminates, have the vehicle checked by an authorized HYUNDAI dealer as soon as possible.

The ESC OFF indicator light comes on when the ESC is turned off with the button.

## **A** WARNING

When the ESC is blinking, this indicates the ESC is active:

Drive slowly and NEVER attempt to accelerate. NEVER turn the ESC off while the ESC indicator light is blinking or you may lose control of the vehicle resulting in an accident.

## NOTICE

Driving with wheels and tires with different sizes may cause the ESC system to malfunction. Before replacing tires, make sure all four tires and wheels are the same size. Never drive the vehicle with different sized tires and wheels installed.

## ESC OFF usage

### When Driving

The ESC OFF mode should only be used briefly to help free the vehicle if stuck in snow or mud by temporarily stopping operation of the ESC to maintain wheel torque.

To turn ESC off while driving, press the ESC OFF button while driving on a flat road surface.

### NOTICE

To prevent damage to the transmission:

- Do not allow wheel(s) of one axle to spin excessively while the ESC, ABS, and parking brake warning ( COPP). red color) lights are displayed. The repairs would not be covered by the vehicle warranty. Reduce engine power and do not spin the wheel(s) excessively while these lights are displayed.
- When operating the vehicle on a dynamometer, make sure the ESC is turned off (ESC OFF light illuminated).

# **i** Information

Turning the ESC off does not affect ABS or standard brake system operation.

# Vehicle Stability Management (VSM)

The Vehicle Stability Management (VSM) is a function of the Electronic Stability Control (ESC) system. It helps ensure the vehicle stays stable when accelerating or braking suddenly on wet, slippery and rough roads where traction over the four tires can suddenly become uneven.

## **A** WARNING

Take the following precautions when using the Vehicle Stability Management (VSM):

- ALWAYS check the speed and the distance to the vehicle ahead. The VSM is not a substitute for safe driving practices.
- Never drive too fast for the road conditions. The VSM system will not prevent accidents. Excessive speed in bad weather, slippery and uneven roads can result in severe accidents.

## VSM operation

#### VSM ON condition

The VSM operates when:

- The Electronic Stability Control (ESC) is on.
- Vehicle speed is approximately above 9 mph (15 km/h) on curve roads.
- Vehicle speed is approximately above 12 mph (20 km/h) when the vehicle is braking on rough roads.

## When operating

When you apply your brakes under conditions which may activate the ESC, you may hear sounds from the brakes, or feel a corresponding sensation in the brake pedal. This is normal and it means your VSM is active.

# *i* Information

The VSM does not operate when:

- Driving on bank road such as gradient or incline.
- Driving rearward.
- ESC OFF indicator light is on.
- EPS (Electric Power Steering) warning light ( ⊗! ) is on.

#### **VSM OFF condition**

To cancel VSM operation, press the ESC OFF button. ESC OFF indicator light ( \( \frac{1}{8} \) ) will illuminate.

To turn on VSM, press the ESC OFF button again. The ESC OFF indicator light will go out.

## **A** WARNING

If ESC indicator light (\$\otin\$) or EPS warning light (\$\otins!\$) stays on, your vehicle may have a malfunction with the VSM system. When the warning light illuminates have the vehicle checked by an authorized HYUNDAI dealer as soon as possible.

### NOTICE

Driving with wheels and tires with different sizes may cause the ESC system to malfunction. Before replacing tires, make sure all four tires and wheels are the same size. Never drive the vehicle with different sized tires and wheels installed.

## **Hill-Start Assist Control (HAC)**

The Hill-Start Assist Control (HAC) helps prevent the vehicle from rolling backwards when starting a vehicle from a stop on a hill. The system operates the brakes automatically for approximately 2 seconds and releases the brake after 2 seconds or when the accelerator pedal is depressed.

## **A** WARNING

Always be ready to depress the accelerator pedal when starting off on a incline. The HAC activates only for approximately 2 seconds.

### NOTICE

- The HAC does not operate when the shift lever is in P (Park) or N (Neutral).
- The HAC activates even though the ESC (Electronic Stability Control) is off but does not activate when the ESC has malfunctioned.

## **Good braking practices**

## **A** WARNING

Whenever leaving the vehicle or parking, always come to a complete stop and continue to depress the brake pedal. Move the shift lever into the P (Park) position, then apply the parking brake, and place the Engine Start/Stop button in the OFF position.

Vehicles parked with the parking brake not applied or not fully engaged may roll inadvertently and may cause injury to the driver and others. ALWAYS apply the parking brake before exiting the vehicle.

Wet brakes can be dangerous! The brakes may get wet if the vehicle is driven through standing water or if it is washed. Your vehicle will not stop as quickly if the brakes are wet. Wet brakes may cause the vehicle to pull to one side.

To dry the brakes, apply the brakes lightly until the braking action returns to normal, taking care to keep the vehicle under control at all times. If the braking action does not return to normal, stop as soon as it is safe to do so and call an authorized HYUNDAI dealer for assistance.

DO NOT drive with your foot resting on the brake pedal. Even light, but constant pedal pressure can result in the brakes overheating, brake wear, and possibly even brake failure. If a tire goes flat while you are driving, apply the brakes gently and keep the vehicle pointed straight ahead while you slow down. When you are moving slowly enough for it to be safe to do so, pull off the road and stop in a safe location.

Keep your foot firmly on the brake pedal when the vehicle is stopped to prevent the vehicle from rolling forward

## DRIVE MODE INTEGRATED CONTROL SYSTEM (IF EQUIPPED)

## **Hybrid vehicle**



The drive mode may be selected according to the driver's preference or road condition.

The mode changes whenever the DRIVE MODE button is pressed.



- COMFORT mode:
   COMFORT mode provides smooth and comfortable driving.
- ECO mode : ECO mode improves fuel efficiency for eco-friendly driving.
- SPORT mode : SPORT mode provides sporty riding.

When COMFORT mode is selected, it is not displayed on the instrument cluster.

#### ECO mode



When the Drive Mode is set to ECO mode, the engine and transmission control logic are changed to maximize fuel efficiency.

- When the ECO mode is selected by pressing the DRIVE MODE button, the ECO indicator will illuminate.
- If the vehicle is set to ECO mode, when the engine is turned OFF and restarted the Drive Mode setting will remain in ECO mode.

## **i** Information

Fuel 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 shift pattern of the automatic transmission may change.
- · The engine noise may get louder.

The above situations are normal conditions when ECO mode is activated to improve fuel 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 engine performance becomes normal.
- When driving up a hill:
   The system will be limited to gain power when driving uphill because engine torque is restricted.
- When driving the vehicle with the automatic transmission gear shift lever in manual shift mode:
  - The system will be limited according 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 engine and transmission control logic for enhanced driver performance.

- When SPORT mode is selected by pressing the DRIVE MODE button, the SPORT indicator will illuminate.
- Whenever the engine is restarted, the Drive Mode will revert back to ECO mode. If SPORT mode is desired, re-select SPORT mode from the DRIVE MODE button.
- When SPORT mode is activated:
  - The engine rpm will tend to remain raised over a certain length of time even after releasing the accelerator
  - Upshifts are delayed when accelerating

# Information

In SPORT mode, the fuel efficiency may decrease.

## Plug-in hybrid vehicle



The drive mode may be selected according to the driver's preference or road condition.

The mode changes whenever the DRIVE MODE button is pressed.



- ECO mode :
  - ECO mode improves fuel efficiency for eco-friendly driving.
- COMFORT mode:
   COMFORT mode provides smooth and comfortable driving.

When COMFORT mode is selected, it is not displayed on the instrument cluster.

#### ECO mode



When the Drive Mode is set to ECO mode, the engine and transmission control logic are changed to maximize fuel efficiency.

- When the ECO mode is selected by pressing the DRIVE MODE button, the ECO indicator will illuminate.
- If the vehicle is set to ECO mode, when the engine is turned OFF and restarted the Drive Mode setting will remain in ECO mode.

# **i** Information

Fuel 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 shift pattern of the automatic transmission may change.
- · The engine noise may get louder.

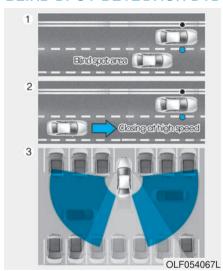
The above situations are normal conditions when ECO mode is activated to improve fuel efficiency.

#### 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 engine performance becomes normal.
- When driving up a hill:
   The system will be limited to gain power when driving uphill because engine torque is restricted.
- When driving the vehicle with the automatic transmission gear shift lever in manual shift mode:
  - The system will be limited according 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.

#### BLIND SPOT DETECTION SYSTEM (BSD) (IF EOUIPPED)



The Blind Spot Detection System (BSD) uses radar sensors in the rear bumper to monitor and warn the driver of an approaching vehicle in the driver's blind spot area.

The system monitors the rear area of the vehicle and provides information to the driver with an audible alert and an indicator on the outside side view mirrors.

(1) BSD (Blind Spot Detection)

The blind spot detection range varies relative to vehicle speed. Note that if your vehicle is traveling much faster than the vehicles around you, the warning will not occur.

(2) LCA (Lane Change Assist)

The Lane Change Assist feature will alert you when a vehicle is approaching in an adjacent lane at a high rate of speed. If the driver activates the turn signal when the system detects an oncoming vehicle, the system sounds an audible alert.

(3) RCTA (Rear Cross Traffic Alert)

The Rear Cross Traffic Alert feature monitors approaching cross traffic from the left and right side of the vehicle when your vehicle is moving in reverse. The feature will operate when the vehicle is moving in reverse below about 6 mph (10 km/h). If oncoming cross traffic is detected a warning chime will sound.

## **A WARNING**

- Always be aware of road conditions while driving and be alert for unexpected situations even though the Blind Spot Detection System is operating.
- The Blind Spot Detection System (BSD) is a supplemental system to assist you. Do not entirely rely on the system. Always pay attention, while driving, for your safety.
- The Blind Spot Detection System (BSD) is not a substitute for proper and safe driving. Always drive safely and use caution when changing lanes or backing the vehicle up. The Blind Spot Detection System (BSD) may not detect every object alongside the vehicle.

#### **A** WARNING

As the Blind Spot Detection (BSD) system is a supplemental device for your safe driving, it may be dangerous to rely on only the BSD information of the head up display image when changing the lane. Always pay attention to drive safely.

# BSD (Blind Spot Detection) / LCA (Lane Change Assist)

## Operating conditions



#### To operate:

Press the BSD switch with the ignition switch in the ON position.

The indicator on the BSD switch will illuminate. When the vehicle speed exceeds 20 mph (30 km/h), the system will be activated.

#### To cancel:

Press the BSD switch again. The indicator on the switch will turn off. When the system is not used, turn the system off by turning the switch off.

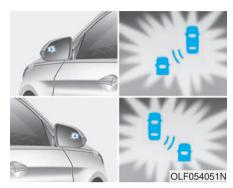
## NOTICE

- If the Engine Start/Stop button is pressed OFF and then ON again, the BSD system returns to the previous state.
- When the system is turned on, the warning light will illuminate for 3 seconds on the outer side view mirror.

## Warning type

The system will activate when:

- 1. The system is on.
- 2. The vehicle speed is above 20 mph (30 km/h).
- 3. An vehicle is detected in the blind spot area.



First stage alert

If a vehicle is detected within the boundary of the system, a warning light will illuminate on the outer side view mirror.

Once the detected vehicle is no longer within the blind spot area, the warning will turn off according to the driving conditions of the vehicle.



Second stage alert

A warning chime to alert the driver will activate when:

- 1. A vehicle has been detected in the blind spot area by the radar system (the warning light will illuminate on the outer side view mirror) AND
- 2. The turn signal is applied (same side as where the vehicle is being detected).

When this alert is activated, the warning light on the side view mirror will also blink.

If you turn off the turn signal indicator, the warning chime will be deactivated.

- The second stage alarm may be deactivated.
  - To deactivate the warning chime:
     Go to the 'User Settings →
     Driving Assist and deselect 'BSD Sound' on the LCD display.
  - To activate the warning chime:
     Go to the 'User Settings →
     Driving Assist and select 'BSD Sound' on the LCD display.

# **1** Information

The warning chime function helps alert the driver. Deactivate this function only when it is necessary.

## Detecting sensor



The sensors are located inside the rear bumper.

Always keep the rear bumper clean for the proper operation of the system.

## Warning message



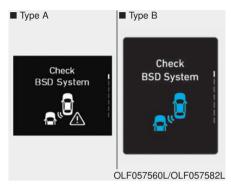
- This warning message may appear when:
  - One or both of the sensors on the rear bumper is blocked by dirt or snow or a foreign object.
  - Driving in rural areas where the BSD sensor does not detect another vehicle for an extended period of time.
  - When there is inclement weather such as heavy snow or rain.

If any of these conditions occur, the light on the BSD switch and the system will turn off automatically.

When the BSD cancelled warning message is displayed in the cluster, check to make sure that the rear bumper is free from any dirt or snow in the areas where the sensor is located. Remove any dirt, snow, or foreign material that could interfere with the radar sensors.

Once dirt or debris is removed, the BSD system should operate normally after about 10 minutes of driving the vehicle.

If the system still does not operate normally have your vehicle inspected by an authorized HYUNDAI dealer.

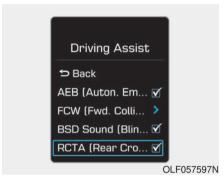


If there is a problem with the BSD system, a warning message will appear and the light on the switch will turn off. The system will turn off automatically. Have your vehicle inspected by an authorized HYUNDAI dealer.

## **RCTA (Rear Cross Traffic Alert)**

The Rear Cross Traffic Alert feature monitors approaching cross traffic from the left and right side of the vehicle when your vehicle is moving in reverse.

#### Operating conditions



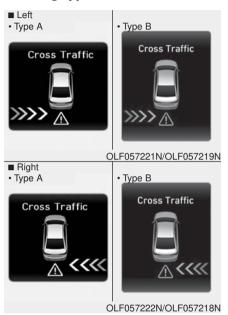
#### To operate:

Go to the User Settings Mode (Driving Assist) and select RCTA (Rear Cross Traffic Alert) on the LCD display (For more information, refer to "LCD Display" in chapter 3.). The system will turn on and standby to activate. The system will activate when vehicle speed is below 6 mph (10 km/h) with the shift lever in R (Reverse).

#### NOTICE

The Rear Cross Traffic Alert (RCTA) detecting range is approximately 1 - 65 ft (0.5 - 20 m). An approaching vehicle will be detected if their vehicle speed is within 2.5 - 22.5 mph (4 - 36 km/h). Note that the detecting range may vary under certain conditions. As always, use caution and pay close attention to your surroundings when backing your vehicle.

#### Warning type



If the vehicle detected by the sensors approaches your vehicle, the warning chime will sound, the warning light on the outer side view mirror will blink and a message will appear on the LCD display.

# **i** Information

- The warning chime will turn off when the detected vehicle moves out of the sensing area or if your vehicle is moved away from the detected vehicle.
- The system may not operate properly due to other factors or circumstances. Always pay attention to your surroundings.
- If the sensing area near the rear bumper is blocked by either a wall or barrier or by a parked vehicle, the system sensing area may be reduced.

## **A** WARNING

 The warning light on the outer side view mirror will illuminate whenever a vehicle is detected at the rear side by the system.

To avoid accidents, do not focus only on the warning light and neglect to see the surrounding of the vehicle.

(Continued)

## (Continued)

 Drive safely even though the vehicle is equipped with a Blind Spot Detection System (BSD) and Rear Cross Traffic Alert (RCTA). Do not solely rely on the system. Check your surrounding before changing lanes or backing up the vehicle.

The system may not alert the driver in some conditions so always check your surroundings while driving.

 The Blind Spot Detection System (BSD) and Rear Cross Traffic Alert (RCTA) are not a substitute for proper and safe driving practices. Always drive safely and use caution when changing lanes or backing up your vehicle. The Blind Spot Detection System (BSD) may not detect every object alongside the vehicle.

#### NOTICE

- The system may not work properly when the bumper has been damaged, or if the rear bumper has been replaced or repaired.
- The sensing range differs somewhat according to the width of the road. When the road is narrow, the system may detect other vehicles in the next lane.
- The system may turn off due to strong electromagnetic waves.

#### Non-operating condition

The BSD indicator on the outer side view mirror may not illuminate properly when:

- The outer side view mirror housing is damaged.
- The mirror is covered with dirt, snow, or debris.
- The window is covered with dirt, snow, or debris.
- The window is tinted.

## Limitations of the system

The driver must be cautious in the below situations, because the system may not detect other vehicles or objects in certain circumstances.

- The vehicle drives on a curved road or through a tollgate.
- The sensor is polluted with rain, snow, mud, etc.
- The rear bumper where the sensor is located is covered with a foreign object such as a bumper sticker, a bumper guard, a bike stand, etc.
- The rear bumper is damaged, or the sensor is out of the original default position.
- The vehicle height gets lower or higher due to heavy loading in a trunk, abnormal tire pressure, etc.
- The vehicle drives in inclement weather such as heavy rain or snow.
- There is a fixed object near the vehicle, such as a guardrail.
- A big vehicle is near such as a bus or truck.

- A motorcycle or bicycle is near.
- A flat trailer is near.
- If the vehicle has started at the same time as the vehicle next to you and has accelerated.
- When the other vehicle passes at a very fast speed.
- While changing lanes.
- While going down or up a steep road where the height of the lane is different.
- When the other vehicle approaches very close.
- When a trailer or carrier is installed.
- When the temperature near the rear bumper area is high or low.
- When the sensors are blocked by the other vehicles, walls or parkinglot pillars.
- When the detected vehicle also moves back, as your vehicle drives back.
- If there are small objects in the detecting area such as a shopping cart or a baby carriage.
- If there is a low height vehicle such as a sports car.

- When other vehicles are close to your vehicle.
- When the vehicle in the next lane moves two lanes away from you OR when the vehicle two lanes away moves to the next lane from you.
- When driving through a narrow road with many trees or bushes.
- When driving on wet surface.

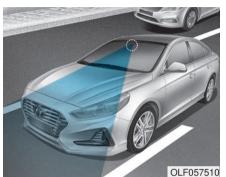
# **i** Information

This device complies with Part 15 of the FCC rules.

Operation is subject to the following two conditions:

- 1. This device may not cause harmful interference, and
- 2. This device must accept any interference received, including interference that may cause undesired operation.

## LANE KEEPING ASSIST SYSTEM (LKAS, IF EQUIPPED)



The Lane Keeping Assist System helps detect the lane markers on the road with a camera at the front windshield, and assists the driver's steering to help keep the vehicle in the lanes.

When the system detects the vehicle straying from its lane, it alerts the driver with a visual and audible warning, while applying a slight countersteering torque, trying to prevent the vehicle from moving out of its lane.

## **A** WARNING

- Driver is responsible for being aware of surroundings and steering the vehicle for safe driving practices.
- Do not steer the steering wheel suddenly when the steering wheel is being assisted by the system.
- LKAS helps prevent the driver from moving out of the lane unintentionally by assisting the driver's steering. However, the system is just a convenience function and the steering wheel is not always controlled. While driving, the driver should pay attention to the steering wheel.
- The operation of the LKAS can be cancelled or not work properly according to road condition and surroundings. Always be cautious when driving.

#### **A** WARNING

- Do not disassemble LKAS camera temporarily for tinted window or attaching any types of coatings and accessories. If you disassemble a camera and assemble it again, take your vehicle to an authorized HYUNDAI dealer and have the system checked for a calibration.
- When you replace the windshield glass, LKAS camera or related parts of the steering, take your vehicle to an authorized HYUNDAI dealer and have the system checked for a calibration.
- The system detects lane markers and controls the steering wheel by a camera, therefore, if the lane markers are hard to detect, the system may not work properly. Always be cautious when using the system.

(Continued)

#### (Continued)

- When the lane markers are hard to detect, please refer to "Limitation of the System".
- Do not remove or damage the related parts of LKAS.

## **A** WARNING

- Do not place objects on the dashboard that reflects light such as mirrors, white paper, etc. The system may malfunction if the sunlight is reflected.
- Do not place any accessories near the rearview mirror.
- You may not hear warning sound of LKAS because of the excessive audio sound.

(Continued)

#### (Continued)

- If you continue to drive with your hands off the steering wheel, the LKAS will stop controlling the steering wheel after the hands off alarm. After then, if you drive with your hands on the steering wheel, the control will be activated again.
- If the vehicle speed is high, steering torque for assistance will not be enough to keep your vehicle within the lane. If so, the vehicle may move out of its lane.
- If you attach objects to the steering wheel, the system may not assist steering.
- If you attach objects to the steering wheel, hands off alarm may not work properly.

## **LKAS** operation



To activate/deactivate the LKAS:

With the ignition switch in the ON position, press the LKAS button located on the instrument panel on the lower left hand side of the driver.

The indicator in the cluster display will initially illuminate white.

When the indicator(white) activated in the previous ignition cycle, the system turns on without any control.

If you press the LKAS button again, the indicator on the cluster display will go off.

The color of indicator will change depend on the condition of LKAS.

- White: Sensor does not detect the lane marker or vehicle speed is less than 40 mph (64 km/h).
- Green: Sensor detects the lane marker and system is able to control the steering.

#### LKAS activation



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- To see the LKAS screen on the LCD display in the cluster, Tab to the ASSIST mode (A). For more details, refer to "LCD Display" in chapter 3.
- After LKAS is activated, if both lane markers are detected, vehicle speed is over 40 mph (64 km/h) and all the activation conditions are satisfied, a green steering wheel indicator will illuminate and the steering wheel will be controlled.

## **A** WARNING

The Lane Keeping Assist System is a system to help prevent the driver from leaving the lane. However, the driver should not solely rely on the system but always check the road conditions when driving.



If the speed of the vehicle is over 40 mph (64 km/h) and the system detects lane markers, the color changes from gray to white.

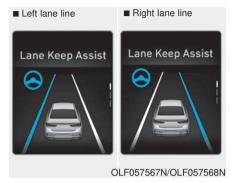


If the speed of the vehicle is over 40 mph (64 km/h) and the system detects lane markers, the color changes from gray to white.

When the conditions below are met, LKAS will be enable to assist steering.

- Vehicle speed is above 40mph (64 km/h).
- Both lane markers are detected by LKAS.
- The vehicle is between the lane markers.

If LKAS can assist steering, a green steering wheel indicator will illuminate.



If the vehicle moves out its lane because steering torque for assistance is not enough, the line indicator of deviation direction will blink.



Keep hands on steering wheel
If the driver takes hands off the steering wheel for several seconds while
the LKAS is activated, the system
will warn the driver.

## **A** WARNING

- The warning message may appear late according to road conditions. Therefore, always have your hands on the steering wheel while driving.
- If you hold the steering wheel lightly, the system would generate hands off warning because LKAS can treat the situation as you do not grab the wheel.



Driver's grasp not detected. LKAS will be disabled temporarily

If the driver still does not have their hands on the steering wheel after several seconds, the system will not control the steering wheel and warn the driver only when the driver crosses the lane markers.

However, if the driver has their hands on the steering wheel again, the system will start controlling the steering wheel.

#### **LKAS** malfunction

#### Check LKAS



#### LKAS failure indicator

The LKAS failure indicator (yellow) will illuminate if the LKAS is not working properly. Have your vehicle checked by an authorized HYUNDAI dealer.

## **A WARNING**

- The driver is responsible for accurate steering.
- Turn off the system and drive the vehicle in below situations.
  - In bad weather
  - In bad road condition
  - When the steering wheel needs to be controlled by the driver frequently.
- The steering wheel may feel heavier when the steering wheel is assisted by the system than when it is not.

The system will be cancelled when:

- You change lanes with the turn signal.
  - Using the turn signal to change lanes.
  - If you change lanes without the turn signal on, the steering wheel might be controlled.
- LKAS can transit to steering assist mode when the car is near to middle of the lane after system on or the lane was changed. LKAS can not assist steering if the vehicle follows lane marker too close continuously before transition to steering assist mode.
- The control of ESC (Electronic Stability Control) or VSM (Vehicle Stability Management) is activated.
- The steering will not be assisted when your drive fast on a sharp curve.
- The steering will not be assisted when vehicle speed is below 40 mph (64 km/h) and over 110 mph (177 km/h).
- The steering will not be assisted when you change lanes fast.

- The steering will not be assisted when you brake suddenly.
- The steering will not be assisted when the lane is very wide or narrow.
- The steering will not be assisted when only one side lane marker is detected.
- There are more than two lane markers such as a construction area.
- · Radius of a curve is too small.
- When you turn steering wheel suddenly, the LKAS will be disabled temporarily.
- · Driving on a steep slope or hill.

## LKAS function change



The driver can change LKAS to Lane Departure Warning System (LDWS) or the LKAS mode between Standard LKA and Active LKA from the User Settings Mode on the LCD display.

#### Lane Departure Warning

LDWS alerts the driver with a visual and acoustic warning when the system detects the vehicle leaving the lane. In this mode, the steering wheel will not be controlled. When the vehicle's front wheel contacts the inside edge of lane line, LKAS issues the lane departure warning.

#### Standard LKA

The Standard LKA mode guides the driver to help keep the vehicle within the lanes. It rarely controls the steering wheel, when the vehicle drives well inside the lanes. However, it starts to control the steering wheel, when the vehicle is about to deviate out of the lanes.

#### Active LKA

The active LKA mode provides more frequent steering wheel control in comparison with the Standard LKA mode. Active LKA can reduce the driver's fatigue to assist the steering for maintaining the vehicle in the middle of the lane.

## **Limitations of the System**

The driver must be cautious in the below situations may not work properly when:

- It is difficult to distinguish the lane marker from road when the lane marker is covered with dust.
- It is difficult to distinguish the color of the lane marker from road.
- There is something looks like a lane marker.
- The lane marker is indistinct or damaged.
- The number of lanes increases/ decreases or the lane lines are crossing (Driving through a toll plaza/toll gate, merged/divided lane).
- There are more than two lane markers.
- The lane marker is very thick or thin.
- The lane marker is not visible due to snow, rain, stain, a puddle or other factors.

- A shadow is on the lane marker because of a median strip, guardrail, noise barriers and others.
- When the lane markers are complicated or a structure substitutes for the lines such as a construction area.
- There are crosswalk signs or other symbols on the road.
- The lane marker in a tunnel is covered with dirt or oil.
- The brightness of outside changes suddenly when entering or exiting a tunnel.
- The headlamps are not on at night or in a tunnel, or light level is low.
- There is a boundary structure in the roadway.
- The light of street, sun, oncoming vehicle and so on reflects from the water on the road.
- When light shines brightly in the reverse direction you drive.
- The lane suddenly disappears such as at the intersection.

- The distance from the vehicle ahead is very short or the vehicle ahead drives hiding the lane line.
- You drive on a steep grade or a sharp curve.
- The vehicle vibrates heavily.
- The temperature near inside mirror is very high due to direct sun light.
- The lens or windshield is covered by strange materials.
- The sensor cannot detect the lane because of fog, heavy rain or snow.
- The windshield is fogged by humid air in the vehicle.
- Putting something on the crash pad.

# **i** Information

This device complies with Part 15 of the FCC rules.

Operation is subject to the following two conditions:

- 1. This device may not cause harmful interference, and
- 2. This device must accept any interference received, including interference that may cause undesired operation.

## DRIVER ATTENTION ALERT SYSTEM (DAA. IF EQUIPPED)

The Driver Attention Alert (DAA) system displays the condition of the driver's fatigue and inattention.

# System setting and activation System setting



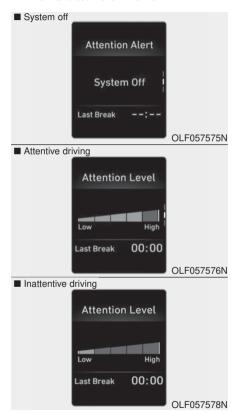
- The Driver Attention Alert system is set to be in the OFF position, when your vehicle is first delivered to you from the factory.
- To turn ON the Driver Attention Alert system, turn on the engine, and then select 'User Settings → Driving Assist → Driver Attention Alert → Normal/Early' on the LCD display.

- The Driver can select mode of the Driver Attention Alert System.
  - Off: The Driver Attention Alert system is deactivated.
  - Normal: The Driver Attention Alert system alerts the driver of his/her fatigue level or inattentive driving practices.
  - Early: The Driver Attention Alert system alerts the driver of his/her fatigue level or inattentive driving practices faster than Normal mode.
- The set-up of the Driver Attention Alert system will be maintained, as selected, when the engine is restarted.

#### Prerequisite for activation

The Driver Attention Alert system is operable, when driving speed is between 40 mph (60 km/h) and 110 mph (180 km/h).

#### Driver's attention level



- The driver can monitor their driving conditions on the LCD display.
  - Select 'User Settings Mode' and then 'Driving Assist' on the LCD display. (For more information, refer to "LCD Display" in chapter 3.)
- · The driver's attention level is displayed on the scale of 1 to 5. The lower the number is, the more inattentive the driver is.
- · The number decreases when the driver does not take a break for a certain period of time.
- The number increases when the driver attentively drives for a certain period of time.
- With the system on while driving, it displays 'Last Break time' and level reflected that.

#### Take a break



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- The "Consider taking a break" message appears on the LCD display and a warning sounds in order to suggest the driver to take a break, when the driver's attention level is below 1.
- · The Driver Attention Alert system does not suggest the driver to take a break, when the total driving time is shorter than 10 minutes.
- The message appears on the LCD display and warning sounds even if you do not choose the Driver Attention Alert system.

## Resetting the system

- The last break time is set to 00:00 and the driver's attention level is set to 5 (very attentive) when the driver resets the Driver Attention Alert system.
- The Driver Attention Alert system resets in the following situations.
  - The engine is turned OFF.
  - The driver unfastens the seat belt and then opens the driver's door.
  - Stop lasting more than 10 minutes.

The Driver attention Alert system operates again, when the driver restarts driving.

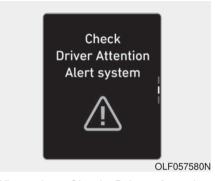
## **System standby**



The Driver Attention Alert system enters the ready status and displays the 'Standby' screen in the following situations.

- The camera sensor keeps failing to detect the lanes.
- Driving speed remains under 40 mph (60 km/h) or over 110 mph (180 km/h).

## **System malfunction**



When the "Check Driver Attention Alert" warning message appears, the system is not working properly. In this case, have the vehicle inspected by an authorized HYUNDAI dealer.

## **A** WARNING

- The Driver Attention Alert system is not a substitute for safe driving practices, but a convenience function only. It is the responsibility of the driver to always drive cautiously to prevent unexpected and sudden situations from occurring. Pay attention to the road conditions at all times.
- It may suggest a break according to the driver's driving pattern or habits even if the driver doesn't feel fatigued.
- The driver, who feels fatigued, should take a break, even though there is no break suggestion by the Driver Attention Alert system.

#### NOTICE

The Driver Attention Alert system utilizes the camera sensor on the front windshield for its operation.

To keep the camera sensor in the best condition, you should observe the followings:

- Do not disassemble camera temporarily for tinted window or attaching any types of coatings and accessories. If you disassemble a camera and assemble it again, take your vehicle to an authorized HYUNDAI dealer and have the system checked for a calibration.
- Do not locate any reflective objects (i.e. white paper, mirror) over the dashboard. Any light reflection may cause a mal-function of the Driver Attention Alert (DAA) system.
- Pay extreme caution to keep the camera sensor out of water.

(Continued)

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- Do not arbitrarily disassemble the camera assembly, nor apply any impact on the camera assembly.
- Playing the vehicle audio system at high volume may offset the Driver Attention Alert system warning sounds.

# **A** CAUTION

The Driver Attention Alert system may not properly operate with limited alerting in the following situations:

- Not properly recognize lane (See the LKAS)
- Rough or intentionally evasive driving
- Large tire pressure deviation, uneven wear, poor wheel alignment, etc.
- Severe winding road
- Uneven road surface condition
- Windy road
- The vehicle drives through a windy area.

(Continued)

## (Continued)

- The vehicle is controlled by the following driving assist systems:
  - Lane Keeping Assist System (LKAS)
  - Autonomous Emergency Braking (AEB) System
  - Smart Cruise Control (SCC) System

## AUTOMATIC EMERGENCY BRAKING (AEB) (IF EQUIPPED)

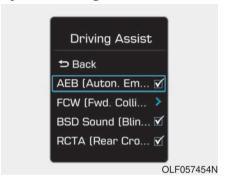
The Automatic Emergency Braking (AEB) system is designed to help detect and monitor the vehicle ahead or help detect a pedestrian in the roadway through radar signals and camera recognition to warn the driver that a collision is imminent, and if necessary, apply emergency braking.

## **A** WARNING

Take the following precautions when using the Automatic Emergency Braking (AEB):

- This system is only a supplemental system and it is not intended to, nor does it replace the need for extreme care and attention of the driver. The sensing range and objects detectable by the sensors are limited. Pay attention to the road conditions at all times.
- NEVER drive too fast in accordance with the road conditions or while cornering.
- Always drive cautiously to prevent unexpected and sudden situations from occurring. AEB does not stop the vehicle completely and is not a collision avoidance system.

# System setting and activation System setting



The driver can activate the AEB by placing the ignition switch to the ON position and by selecting 'User Settings', 'Driving Assist', and 'AEB (Automatic Braking System)'. The AEB deactivates, when the driver cancels the system setting.



The warning light illuminates on the LCD display, when you cancel the AEB system. The driver can

monitor the AEB ON/OFF status on the LCD display. If the warning light remains ON when the AEB is activated, have the system checked by an authorized HYUNDAI dealer.



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The driver can select the initial warning activation time in the User Settings in the Driver LCD display. The options for the initial Forward Collision Warning include the following:

 FAST - When this condition is selected, the initial Forward Collision Warning is activated earlier than normal. This setting maximizes the amount of distance between the vehicle or pedestrian ahead before the initial warning occurs.

- NORMAL When this condition is selected, the initial Forward Collision Warning is activated normally. This setting allows for a nominal amount of distance between the vehicle or pedestrian ahead before the initial warning occurs.
- SLOW When this condition is selected, the initial Forward Collision Warning is activated later than normal. This setting reduces the amount of distance between the vehicle or pedestrian ahead before the initial warning occurs.

## Prerequisite for activation

The AEB gets ready to be activated, when the AEB is selected on the LCD display, and when the following prerequisites are satisfied.

- The ESC is activated.
- To enable the system to detect pedestrians ahead, the vehicle driving speed must be between 5 -40 mph (8 - 65 km/h).
- To enable the system to detect a vehicle ahead, the vehicle driving speed must be between 5 110 mph (8 180 km/h).

When traveling above 50 mph (80 km/h), the AEB system only initiates partial braking. This is to prevent unintended full braking to stop in the middle of the highway.

## **A** WARNING

- The AEB automatically activates upon placing the ignition switch to the ON position.
   The driver can deactivate the AEB by canceling the system setting on the LCD display.
- The AEB automatically deactivates upon canceling the ESC. When the ESC is canceled, the AEB cannot be activated on the LCD display.

# AEB warning message and system control

The AEB produces warning messages and warning alarms in accordance with the collision risk levels. Also, it controls the brakes in accordance with the collision risk levels.

## Forward Warning (1st warning)



This initial warning message appears on the LCD display with a warning chime.

The driver can select the initial warning activation time in the User Settings in the Driver LCD display. The options for the initial Forward Collision Warning include FAST. NORMAL, or SLOW initial warning time.

## Collision Warning (2<sup>nd</sup> warning)



- This warning message appears on the LCD display with a warning chime.
- Additionally, some vehicle system intervention occurs by the engine management system to help decelerate the vehicle.
  - If the detected vehicle in front is driving slower than 50 mph (80 km/h), your vehicle speed may decelerate sharply to avoid a collision. If the detected vehicle in front is driving faster than 50 mph (80 km/h), your vehicle speed may decelerate moderately.

- If your vehicle is traveling less than 40 mph (65 km/h) and a pedestrian is detected within the Collision Warning (2<sup>nd</sup> warning) stage, your vehicle speed may decelerate sharply to avoid a collision.

# Emergency braking (3<sup>rd</sup> warning)



- This warning message appears on the LCD display with a warning alarm.
- Additionally, automatic emergency braking of the vehicle is applied in order to avoid a collision.
  - If your vehicle is traveling less than 40 mph (65 km/h) and a pedestrian is detected within the Emergency Braking stage, automatic emergency braking of the vehicle is applied. In this condition, your vehicle speed will decelerate sharply to avoid a collision.

- When your vehicle drives slower than 40 mph (65 km/h) with a passer-by in front, the driving speed may abruptly decrease. When your vehicle drives faster than 40 mph (65 km/h) with a pedestrian in front, the AEB does not operate.

#### Brake operation

- In an urgent situation, the braking system enters into the ready status for prompt reaction against the driver's depressing the brake pedal.
- The AEB provides additional braking power for optimum braking performance, when the driver depresses the brake pedal.
- The braking control is automatically deactivated, when the driver sharply depresses the brake pedal, or when the driver abruptly operates the steering wheel.
- The braking control is automatically canceled, when risk factors disappear.

## **A** CAUTION

The driver should always use extreme caution while operating the vehicle, whether or not there is a warning message or alarm from the AEB system.

## **A** WARNING

The braking control cannot completely stop the vehicle nor avoid all collisions. The driver should hold the responsibility to safely drive and control the vehicle.

## **A** WARNING

The AEB system logic operates within certain parameters, such as the distance from the vehicle or pedestrian ahead, the speed of the vehicle ahead, and the driver's vehicle speed. Certain conditions such as inclement weather and road conditions may affect the operation of the AEB system.

#### AEB front radar sensor



In order for the AEB system to operate properly, always make sure the radar sensor lens cover is clean and free of dirt. snow, and debris. Dirt. snow, or foreign substances on the lens may adversely affect the sensing performance of the radar.

## Warning message and warning light



When the sensor lens cover is blocked with dirt, snow, or debris, the AEB system operation may stop temporarily. If this occurs, a warning message will appear on the LCD display. Remove any dirt, snow, or debris and clean the radar sensor lens cover before operating the AEB system.

#### NOTICE

- Do not apply foreign objects such as a bumper sticker or a bumper guard near the radar sensor. Doing so may adversely affect the sensing performance of the radar.
- Always keep the radar sensor and lens cover clean and free of dirt and debris.
- Use only a soft cloth to wash the vehicle. Do not spray pressurized water directly on the sensor or sensor cover.
- Be careful not to apply unnecessary force on the radar sensor or sensor cover. If the sensor is forcibly moved out of proper alignment, the AEB system may not operate correctly. In this case, a warning message may not be displayed. Have the vehicle inspected by an authorized HYUNDAI dealer.

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#### (Continued)

- If the front bumper becomes damaged in the area around the radar sensor, the AEB system may not operate properly. Have the vehicle inspected by an authorized HYUNDAI dealer.
- Use only genuine HYUNDAI parts to repair or replace a damaged sensor or sensor cover. Do not apply paint to the sensor cover.

## **System malfunction**



- When the AEB is not working properly, the AEB warning light (A) will illuminate and the warning message will appear for a few seconds. After the message disappears, the master warning light (A) will illuminate. In this case, have the vehicle inspected by an authorized HYUNDAI dealer.
- The AEB warning message may appear along with the illumination of the ESC warning light.

## **A** WARNING

- The AEB is only a supplemental system for the driver's convenience. The driver should hold the responsibility to control the vehicle operation. Do not solely depend on the AEB system. Rather, maintain a safe braking distance, and, if necessary, depress the brake pedal to reduce the driving speed.
- In certain instances and under certain driving conditions, the AEB system may activate prematurely. This initial warning message appears on the LCD display with a warning chime.

Also, in certain instances the front radar sensor or camera recognition system may not detect the vehicle or pedestrian ahead. The AEB system may not activate and the warning message will not be displayed.

(Continued)

#### (Continued)

- If there is a malfunction with the AEB system, the automatic emergency braking is not applied even though the braking system is operating normally.
- The AEB system operates only to help detect vehicles or pedestrians in front of the vehicle.

The AEB system does not operate when the vehicle is in reverse.

The AEB system is not designed to detect other objects on the road such as animals.

The AEB system does not detect cross traffic vehicles that are approaching.

The AEB system cannot detect the driver approaching the side view of a parked vehicle (for example on a dead end street.)

(Continued)

## (Continued)

In these cases, you must maintain a safe braking distance, and if necessary, depress the brake pedal to reduce the driving speed in order to maintain a safe distance.

## Limitations of the system

The Automatic Emergency Braking (AEB) system is designed to help monitor the vehicle ahead or a pedestrian in the roadway through radar signals and camera recognition to warn the driver that a collision is imminent, and if necessary, apply emergency braking.

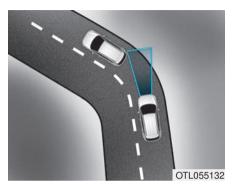
In certain situations, the radar sensor or the camera may not be able to detect the vehicle or pedestrian ahead. In these cases, the AEB system may not operate normally. The driver must pay careful attention in the following situations where the AEB operation may be limited.

## Detecting vehicles

The sensor may be limited when:

- The radar sensor or camera is blocked with a foreign object or debris
- Inclement weather such as heavy rain or snow obscures the field of view of the radar sensor or camera
- There is interference by electromagnetic waves
- There is severe irregular reflection from the radar sensor
- The vehicle in front is too small to be detected by the camera recognition system (for example a motorcycle or a bicycle, etc.)
- The vehicle in front is an oversize vehicle or trailer that is too big to be detected by the camera recognition system (for example a tractor trailer, etc.)
- The driver's field of view is not well illuminated (either too dark or too much reflection or too much backlight that obscures the field of view)

- The vehicle in front does not have their rear lights properly turned ON
- The outside brightness changes suddenly, for example when entering or exiting a tunnel
- The vehicle in front is driving erratically



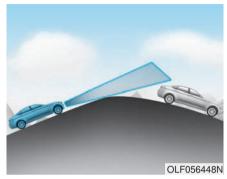
- Driving on a curve

The performance of the AEB system may be limited when driving on a curved road.

In certain instances on a curved road, the AEB system may activate prematurely.

Also, in certain instances the front radar sensor or camera recognition system may not detect the vehicle traveling on a curved road.

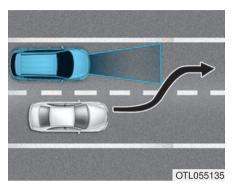
In these cases, the driver must maintain a safe braking distance, and if necessary, depress the brake pedal to reduce your driving speed in order to maintain a safe distance.



- Driving on a slope

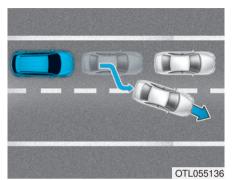
The performance of the AEB decreases while driving upward or downward on a slope, not recognizing the vehicle in front in the same lane. It may unnecessarily produce the warning message and the warning alarm, or it may not produce the warning message and the warning alarm at all.

When the AEB suddenly recognizes the vehicle in front while passing over a slope, you may experience sharp deceleration. Always keep your eyes forward while driving upward or downward on a slope, and, if necessary, depress the brake pedal to reduce your driving speed in order to maintain distance.

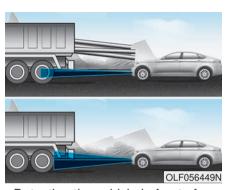


#### - Changing lanes

When a vehicle changes lanes in front of you, the AEB system may not immediately detect the vehicle, especially if the vehicle changes lanes abruptly. In this case, you must maintain a safe braking distance, and if necessary, depress the brake pedal to reduce your driving speed in order to maintain a safe distance.



When driving in stop-and-go traffic, and a stopped vehicle in front of you merges out of the lane, the AEB system may not immediately detect the new vehicle that is now in front of you. In this case, you must maintain a safe braking distance, and if necessary, depress the brake pedal to reduce your driving speed in order to maintain a safe distance.



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

### **Detecting pedestrians**

The sensor may be limited when:

- The pedestrian is not fully detected by the camera recognition system, for example, if the pedestrian is leaning over or is not fully walking upright
- The pedestrian is moving very quickly or appears abruptly in the camera detection area
  - The pedestrian is wearing clothing that easily blends into the background, making it difficult to be detected by the camera recognition system
- The outside lighting is too bright (e.g. when driving in bright sunlight or in sun glare) or too dark (e.g. when driving on a dark rural road at night)
- It is difficult to detect and distinguish the pedestrian from other objects in the surroundings, for example, when there is a group of pedestrians or a large crowd

### **A** WARNING

- Do not use the Automatic Emergency Braking system when towing a vehicle. Application of the AEB system while towing may adversely affect the safety of your vehicle or the towing vehicle
- Use extreme caution when the vehicle in front of you has cargo that extends rearward from the cab, or when the vehicle in front of you has higher ground clearance.
- The AEB system is designed to help detect and monitor the vehicle ahead or detect a pedestrian in the roadway through radar signals and camera recognition. It is not designed to detect bicycles, motorcycles, or smaller wheeled objects such as luggage bags, shopping carts, or strollers.
- Never try to test the operation of the AEB system. Doing so may cause severe injury or death.

## **i** Information

In some instances, the AEB system may be cancelled when subjected to electromagnetic interference.

## Information

This device complies with Part 15 of the FCC rules.

Operation is subject to the following two conditions:

- 1. This device may not cause harmful interference, and
- 2. This device must accept any interference received, including interference that may cause undesired operation.

#### CRUISE CONTROL (IF EQUIPPED)

## **Cruise Control operation**



- 1. CRUISE indicator
- 2. SET indicator

The Cruise Control system allows you to drive at speeds above 20 mph (30 km/h) without depressing the accelerator pedal.

## **A** WARNING

Take the following precautions:

- If the Cruise Control is left on, ("CRUISE" indicator light in the instrument cluster is illuminated) the Cruise Control can be activated unintentionally. Keep the Cruise Control system off ("CRUISE" indicator light OFF) when the Cruise Control is not in use, to avoid inadvertently setting a speed.
- Use the Cruise Control system only when traveling on open highways in good weather.
- Do not use the 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

(Continued)

#### (Continued)

- 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.

## **i** Information

- During normal cruise control operation, when the SET switch is activated or reactivated after applying the brakes, the cruise control will energize after approximately 3 seconds. This delay is normal.
- Before activating the cruise control function, the system will check to verify that the brake switch is operating normally. Depress the brake pedal at least once after turning ON the ignition or starting the engine.

#### To set Cruise Control speed



- 1. Press the CRUISE button on the steering wheel to turn the system on. The "CRUISE" indicator will illuminate.
- 2. Accelerate to the desired speed. which must be more than 20 mph (30 km/h).



- 3. Push the toggle switch (1) down (SET-), and release it. The SET indicator light will illuminate.
- 4. Release the accelerator pedal.

## **i** Information

On a steep slope, the vehicle may slightly slow down or speed up, while driving uphill or downhill.

### To increase Cruise Control speed



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- Push the toggle switch (1) up (RES+) and hold it, while monitoring the SET speed on the instrument cluster.
  - Release the toggle switch when the desired speed is shown and the vehicle will accelerate to that speed.
- Push the toggle switch (1) up (RES+) and release it immediately. The cruising speed will increase 1.2 mph (2.0 km/h) each time the toggle switch is operated in this manner.

 Depress the accelerator pedal. When the vehicle attains the desired speed, push the toggle switch (1) down (SET-).

# To decrease Cruise Control speed



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- Push the toggle switch (1) down (SET-) and hold it. Your vehicle will gradually slow down. Release the lever at the speed you want to maintain.
- Push the toggle switch (1) down (SET-) and release it immediately. The cruising speed will decrease 1.2 mph (2.0 km/h) each time the toggle switch is operated in this manner.
- Lightly tap the brake pedal. When the vehicle attains the desired speed, push the toggle switch (1) down (SET-).

## To temporarily accelerate with the Cruise Control ON

Depress the accelerator pedal. When you take your foot off the accelerator, the vehicle will return to the previously set speed.

If you push the toggle switch down (SET-) at the increased speed, the Cruise Control will maintain the increased speed.

# Cruise Control will be canceled when:



- · Depressing the brake pedal.
- Pressing the CANCEL button located on the steering wheel.
- Pressing the CRUISE button. Both the CRUISE indicator and the "SET" indicator will turn OFF.
- Moving the shift lever into N (Neutral).

- Decreasing the vehicle speed to less than approximately 20 mph (30 km/h).
- The ESC (Electronic Stability Control) is operating.
- Downshifting to 2<sup>nd</sup> gear when in Manual Shift mode.

## *i* Information

Each of the above actions will cancel Cruise Control operation (the "SET" indicator in the instrument cluster will go off), but only pressing the CRUISE button will turn the system off. If you wish to resume Cruise Control operation, push the lever up (RES+) located on your steering wheel. You will return to your previously preset speed, unless the system was turned off using the CRUISE button.

# To resume preset Cruising speed



Push the toggle switch (1) up (RES+). If the vehicle speed is over 20 mph (30 km/h), the vehicle will resume the preset speed.

### To turn Cruise Control off



- Press the CRUISE button (the "CRUISE" indicator light will go off).
- Turn the vehicle OFF.

## SMART CRUISE CONTROL SYSTEM (IF EQUIPPED)



- ① Cruise Indicator
- ② Set Speed
- ③ Vehicle-to-Vehicle Distance

The Smart Cruise Control System allows you to program the vehicle to maintain constant speed and distance detecting the vehicle ahead without depressing the accelerator/brake pedal.

#### **A** WARNING

For your safety, please read the owner's manual before using the Smart Cruise Control system.

#### **A** WARNING

The Smart Cruise Control System is not a substitute for safe driving practices, but a convenience function only. It is the responsibility of the driver to always check the speed and distance to the vehicle ahead.

### **A** WARNING

Do not use smart cruise control when towing a trailer.

#### **A** WARNING

Take the following precautions:

- If the Smart Cruise Control is left on, ("CRUISE" indicator light in the instrument cluster is illuminated) the Smart Cruise Control can be activated unintentionally. Keep the Smart Cruise Control System off ("CRUISE" indicator light OFF) when the Smart Cruise Control is not in use, to avoid inadvertently setting a speed.
- Use the Smart Cruise Control System when traveling on open highways in good weather

(Continued)

#### (Continued)

- Do not use the Smart Cruise Control when it may not be safe to keep the vehicle at a constant speed:
  - When driving in heavy traffic or when traffic conditions make it difficult to drive at a constant speed
  - When driving on rainy, icy, or snow-covered roads
  - When driving on a steep downhill or uphill
  - When driving in windy areas
  - When driving in parking lots
  - When driving near crash barriers
  - When driving on a sharp curve
  - When driving with limited view (possibly due to bad weather, such as fog, snow, rain or sandstorm)
  - When the vehicle sensing ability decreases due to vehicle modification resulting level difference of the vehicle's front and rear

#### To adjust the sensitivity of Smart Cruise Control



The sensitivity of vehicle speed when following the front vehicle to maintain the set distance can be adjusted. Go to the User Settings Mode (Driving Assist) and select SCC (Smart Cruise Control). You may select one of the three stages you prefer.

· Slow:

Vehicle speed following the front vehicle to maintain the set distance is slower than normal speed.

· Normal:

Vehicle speed following the front vehicle to maintain the set distance is normal

Fast:

Vehicle speed following the front vehicle to maintain the set distance is faster than normal speed.

#### To convert to Cruise Control Mode

The driver may choose to only use the Cruise Control Mode (speed control function) by doing as follows:

- 1. Turn the Smart Cruise Control System on (the "CRUISE" indicator will be on but the system will not be activated).
- 2. Press and hold the Vehicle-to-Vehicle Distance button for more than 2 seconds
- 3. Choose between "Smart Cruise Control (SCC) Mode" and "Cruise Control (CC) Mode".

When the system is canceled using the CRUISÉ button or the CRUISÉ button is used after the engine is turned on, the SCC Mode will turn on.

### **A** WARNING

When using the Cruise Control Mode, vou must manually adjust the distance to other vehicles by depressing the accelerator or brake pedal. The system does not automatically adjust the distance to vehicles in front of vou.

### **Smart Cruise Control speed**

To set Smart Cruise Control speed



- 1. Push the CRUISE button on the steering wheel to turn the system on. The "CRUISE" indicator will illuminate.
- 2. Accelerate to the desired speed. The Smart Cruise Control speed can be set as follows:
  - 20 mph (30 km/h)~110 mph (180 km/h): when there is no vehicle in front
  - 0 mph (0 km/h)~110 mph (180 km/h): when there is a vehicle in front



- Push the toggle switch down (SET-), and release it at the desired speed. The Set Speed and Vehicle-to-Vehicle Distance on the LCD display will illuminate.
- Release the accelerator pedal. The desired speed will automatically be maintained.

If there is a vehicle in front of you, the speed may decrease to maintain the distance to the vehicle ahead.

On a steep grade, the vehicle may slow down or speed up slightly while going uphill or downhill.

### To increase Smart Cruise Control set speed



Follow either of these procedures:

- Push the toggle switch up (RES+), and hold it. Your vehicle set speed will increase by 5 mph (10 km/h). Release the toggle switch at the speed you want.
- Push the toggle switch up (RES+), and release it immediately. The cruising speed will increase by 1.0 mph (1.0 km/h) each time you move the toggle switch up in this manner.
- You can set the speed to 110 mph (180 km/h).

#### To decrease the Smart Cruise Control set speed



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Follow either of these procedures:

- Push the toggle switch down (SET-), and hold it. Your vehicle set speed will decrease by 5 mph (10 km/h). Release the toggle switch at the speed you want.
- Push the toggle switch down (SET-), and release it immediately. The cruising speed will decrease by 1.0 mph (1.0 km/h) each time you move the toggle switch down in this manner.
- You can set the speed to 20 mph (30 km/h).

# To temporarily accelerate with the Smart Cruise Control on

If you want to speed up temporarily when the Smart Cruise Control is on, depress the accelerator pedal. Increased speed will not interfere with Smart Cruise Control operation or change the set speed.

To return to the set speed, take your foot off the accelerator.

If you push the toggle switch down (SET-) at increased speed, the cruising speed will be set again.

## **A** CAUTION

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

# Smart Cruise Control will be temporarily canceled when:



## **Canceled manually**

- · Depressing the brake pedal.
- Pressing the CANCEL button located on the steering wheel.
- Depress the brake pedal and press the CANCEL button at the same time, when the vehicle is at a standstill.

The Smart Cruise Control turns off temporarily when the indicator on the LCD display turns off.

The CRUISE indicator is illuminated continuously.

#### **Canceled automatically**

- The driver's door is opened.
- The shift lever is shifted to N (Neutral), R (Reverse) or P (Park).
- The EPB (Electronic Parking Brake) is applied.
- The vehicle speed is over 120 mph (190 km/h)
- The ESC (Electronic Stability Control), TCS (Traction Control System) or ABS is operating.
- · The ESC is turned off.
- The radar or the cover is dirty or blocked with foreign matter.
- The SCC system has malfunctioned.
- When the vehicle is stopped for more than 5 minutes.
- The driver starts driving by pushing the toggle switch up (RES +) or down (SET -) or depressing the accelerator pedal, approximately 3 seconds after the vehicle is stopped by the Smart Cruise Control System with no other vehicle ahead.

- The driver starts driving by pushing the toggle switch up (RES +) or down (SET -) or depressing the accelerator pedal, after stopping the vehicle with a vehicle stopped far away in front.
- The accelerator pedal is continuously depressed for more than one minute.

Each of these actions will cancel the Smart Cruise Control operation. (The Set Speed and Vehicleto-Vehicle Distance on the LCD display will go off.)

In a condition the Smart Cruise Control is canceled automatically, the Smart Cruise Control will not resume even though the RES+ or SET- toggle switch is pushed. Also, the EPB will be applied when the vehicle is stopped.

#### NOTICE

If the Smart Cruise Control is canceled by other than the reasons mentioned, have your vehicle checked by an authorized HYUNDAI dealer.



If the system is canceled, the warning chime will sound and a message will appear for a few seconds.

You must adjust the vehicle speed by depressing the accelerator or brake pedal according to the road condition ahead and driving condition.

Always check the road conditions. Do not rely on the warning chime.

# To resume Smart Cruise Control set speed



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If any method other than the cruise lever was used to cancel cruising speed and the system is still activated, the cruising speed will automatically resume when you push the toggle switch up (RES+) or down (SET-). If you push the toggle switch up (RES+), the speed will resume to the recently set speed. However, if vehicle speed has dropped below approximately 20 mph (30 km/h), it will resume when there is a vehicle in front of your vehicle.

## **!** CAUTION

Always check the road conditions when you push the toggle switch up (RES+) to resume speed.

#### To turn Cruise Control off



Press the CRUISE button (the "CRUISE" indicator light will go off).

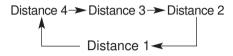
#### **Smart Cruise Control vehicle**to-vehicle distance

#### To set Vehicle-to-Vehicle Distance



When the Smart Cruise Control System is ON, you can set and maintain the distance from the vehicle ahead of you without pressing the accelerator or brake pedal.

Each time the button is pressed, the vehicle to vehicle distance changes as follows:



For example, if you drive at 56 mph (90 km/h), the distance maintain as follows:

- Distance 4 approximately 172 feet (52.5 m)
- Distance 3 approximately 130 feet (40 m)
- Distance 2 approximately 106 feet (32.5 m)
- Distance 1 approximately 82 feet (25 m)

## **i** Information

Distance 4 is always set when the system is used for the first time after starting the engine.

#### When the lane ahead is clear:



The vehicle speed will maintain the set speed.

# When there is a vehicle ahead of you in your lane:



- Your vehicle speed will slow down or speed up to maintain the selected distance.
- If the vehicle ahead speeds up, your vehicle will travel at a steady cruising speed after accelerating to the set speed.

## **A** WARNING



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# When using the Smart Cruise Control System:

 The warning chime sounds and the Vehicle-to Vehicle Distance indicator blinks if the vehicle is unable to maintain the selected distance from the vehicle ahead.

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## (Continued)

- If the warning chime sounds, depress the accelerator or brake pedal to actively adjust the vehicle speed, and the distance to the vehicle ahead.
- Even if the warning chime is not activated, always pay attention to the driving conditions to prevent dangerous situations from occurring.



## **A** CAUTION

If the vehicle ahead (vehicle speed: less than 20 mph (30km/h)) disappears to the next lane, the warning chime will sound and a message will appear. Adjust your vehicle speed for vehicles or objects that can suddenly appear in front of you by depressing the brake pedal.

Always pay attention to the road condition ahead.

#### In traffic situation



In traffic, your vehicle will stop if the vehicle ahead of you stops. Also, if the vehicle ahead of you starts moving, your vehicle will start as well. However, if the vehicle stops for more than 3 seconds, you must depress the accelerator pedal or push up the toggle switch (RES+ or SET-) to start driving.

#### **SCC** front radar sensor



The Smart Cruise Control uses a radar to detect distance to the vehicle ahead.

### Warning message



Smart Cruise Control disabled. Radar blocked

When the sensor lens cover is blocked with dirt, snow, or debris, the Smart Cruise Control System operation may stop temporarily. If this occurs, a warning message will appear on the LCD display. Remove any dirt, snow, or debris and clean the radar sensor lens cover before operating the Smart Cruise Control System.



# **Check Smart Cruise Control system**

The message will appear when the vehicle to vehicle distance control system is not functioning normally.

Take your vehicle to an authorized HYUNDAI dealer and have the system checked.

## **A** CAUTION

- Do not apply foreign objects such as a bumper sticker or a bumper guard near the radar sensor. Doing so may adversely affect the sensing performance of the radar.
- Always keep the radar sensor and lens cover clean and free of dirt and debris.
- Use only a soft cloth to wash the vehicle. Do not spray pressurized water directly on the sensor or sensor cover.
- Be careful not to apply unnecessary force on the radar sensor or sensor cover. If the sensor is forcibly moved out of proper alignment, the Smart Cruise Control System may not operate correctly. In this case, a warning message may not be displayed. Have the vehicle inspected by an authorized HYUNDAI dealer.

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#### (Continued)

- If the front bumper becomes damaged in the area around the radar sensor, the Smart Cruise Control System may not operate properly. Have the vehicle inspected by an authorized HYUNDAI dealer.
- Use only genuine HYUNDAI parts to repair or replace a damaged sensor or sensor cover. Do not apply paint to the sensor cover.

## Limitations of the system

The Smart Cruise Control System may have limits to its ability to detect distance to the vehicle ahead due to road and traffic conditions.

#### On curves

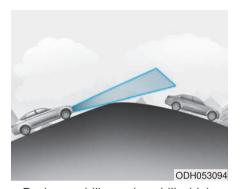


- The Smart Cruise Control System may not detect a moving vehicle in your lane, and then your vehicle could accelerate to the set speed. Also, the vehicle speed will decrease when the vehicle ahead is recognized suddenly.
- Select the appropriate set speed on curves and apply the brakes or accelerator pedal if necessary.



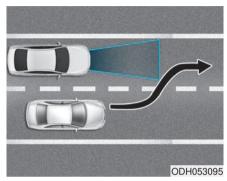
Your vehicle speed can be reduced due to a vehicle in the adjacent lane. Apply the accelerator pedal and select the appropriate set speed. Check to be sure that the road conditions permit safe operation of the Smart Cruise Control.

#### On inclines



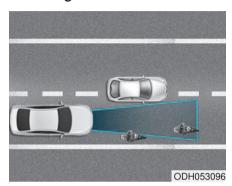
- During uphill or downhill driving, the Smart Cruise Control System may not detect a moving vehicle in your lane, and cause your vehicle to accelerate to the set speed. Also, the vehicle speed will rapidly decrease when the vehicle ahead is recognized suddenly.
- Select the appropriate set speed on inclines and apply the brake or accelerator pedal if necessary.

### Lane changing



- A vehicle which moves into your lane from an adjacent lane cannot be recognized by the radar until it is in the radar's detection range.
- The radar may not detect immediately when a vehicle cuts in suddenly. Always pay attention to the traffic, road and driving conditions.
- If a slower vehicle moves into your lane, your speed may decrease to maintain the distance to the vehicle ahead.
- If a faster vehicle moves into your lane, your vehicle will accelerate to the set speed.

#### Detecting vehicles



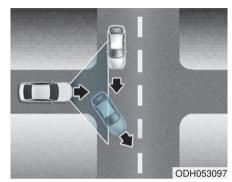
Some vehicles in your lane cannot be recognized by the radar:

- Narrow vehicles such as motorcycles or bicycles
- Vehicles offset to one side
- Slow-moving vehicles or suddendecelerating vehicles
- Stopped vehicles
- Vehicles with small rear profile such as trailers with no loads

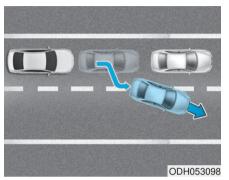
A vehicle ahead cannot be recognized correctly by the radar if any of following occurs:

- When the vehicle is pointing upwards due to overloading in the trunk
- While the steering wheel is operating
- When driving to one side of the lane
- When driving on narrow lanes or on curves

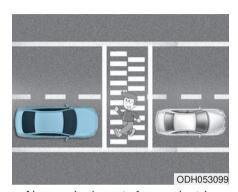
Apply the brake or accelerator pedal if necessary.



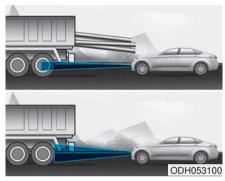
- Your vehicle may accelerate when a vehicle ahead of you disappears.
- When you are warned that the vehicle ahead of you is not detected, drive with caution.



 When vehicles are at a standstill and the vehicle in front of you changes to the next lane, be careful when your vehicle starts to move because it may not recognize the stopped vehicle in front of you.



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



 Always be cautious for vehicles with higher height or vehicles carrying loads that sticks out from the back of the vehicle.

## **A WARNING**

When using the Smart Cruise Control take the following precautions:

- If an emergency stop is necessary, you must apply the brakes. The vehicle cannot be stopped by using the Smart Cruise Control System.
- Keep a safe distance according to road conditions and vehicle speed. If the vehicle to vehicle distance is too close during a high-speed driving, a serious collision may result.
- Always maintain sufficient braking distance and decelerate your vehicle by applying the brakes if necessary.
- The Smart Cruise Control System cannot recognize a stopped vehicle, pedestrians or an oncoming vehicle. Always look ahead cautiously to prevent unexpected and sudden situations from occurring.

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- Vehicles moving in front of you with a frequent lane change may cause a delay in the system's reaction or may cause the system to react to a vehicle actually in an adjacent lane. Always drive cautiously to prevent unexpected and sudden situations from occurring.
- Always be aware of the selected speed and vehicle to vehicle distance.
- The Smart Cruise Control System may not recognize complex driving situations so always pay attention to driving conditions and control your vehicle speed.

#### NOTICE

The Smart Cruise Control System may not operate temporarily due to:

- · Electrical interference
- Modifying the suspension
- Differences of tire abrasion or tire pressure
- Installing different type of tires

## **i** Information

This device complies with Part 15 of the FCC rules.

Operation is subject to the following three conditions:

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

## **i** Information

Radio frequency radiation exposure information:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.

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

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

#### SPECIAL DRIVING CONDITIONS

## **Hazardous driving conditions**

When hazardous driving elements are encountered such as water, snow, ice, mud and sand, take the below suggestions:

- Drive cautiously and keep a longer braking distance.
- · Avoid abrupt braking or steering.
- When your vehicle is stuck in snow, mud, or sand, use second gear. 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.

## **A** WARNING

Downshifting with an automatic transmission while driving on slippery surfaces can cause an accident. The sudden change in tire speed could cause the tires to skid. Be careful when downshifting 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 engine.

To prevent transmission 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 transmission is in gear. Slowly spinning the wheels in forward and reverse directions causes a rocking motion that may free the vehicle.

## **A** WARNING

If the vehicle is stuck and excessive wheel spin occurs, the temperature in the tires can increase very quickly. If the tires become damaged, a tire blow out or tire explosion can occur. This condition is dangerous you and others may be injured. Do not attempt this procedure if people or objects are anywhere near the vehicle.

If you attempt to free the vehicle, the vehicle can overheat quickly, possibly causing an engine compartment fire or other damage. Try to avoid spinning the wheels as much as possible to prevent overheating of either the tires or the engine. DO NOT allow the vehicle to spin the wheels above 35 mph (56 km/h).

## *i* Information

The ESC system must be turned OFF before rocking the vehicle.

## NOTICE

If you are still stuck after rocking the vehicle a few times, have the vehicle pulled out by a tow vehicle to avoid engine overheating, possible damage to the transmission, and tire damage. See "Towing" in chapter 6.

### **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 driver's headlamps.
- Keep your headlamps clean and properly aimed. Dirty or improperly aimed headlamps will make it much more difficult to see at night.
- Avoid staring directly at the headlamps of oncoming vehicles. You could be temporarily blinded, and it will take several seconds for your eyes to readjust to the darkness.

## **Driving in the rain**

Rain and wet roads can make driving dangerous. Here are a few things to consider when driving in the rain or on slick pavement:

- Slow down and allow extra following distance. A heavy rainfall makes it harder to see and increases the distance needed to stop your vehicle.
- Turn OFF your Cruise Control.
- Replace your windshield wiper blades when they show signs of streaking or missing areas on the windshield.
- Be sure your tires have enough tread. If your tires do not have enough tread, making a quick stop on wet pavement can cause a skid and possibly lead to an accident.
   See "Tire Tread" in chapter 7.
- Turn on your headlamps to make it easier for others to see you.
- Driving too fast through large puddles can affect your brakes. If you must go through puddles, try to drive through them slowly.

 If you believe your brakes may be wet, apply them lightly while driving until normal braking operation returns.

## Hydroplaning

If the road is wet enough and you are going fast enough, your vehicle may have little or no contact with the road surface and actually ride on the water. The best advice is SLOW DOWN when the road is wet.

The risk of hydroplaning increases as the depth of tire tread decreases, refer to "Tire Tread" in chapter 7.

## **Driving in flooded areas**

Avoid driving through flooded areas unless you are sure the water is no higher than the bottom of the wheel hub. Drive through any water slowly. Allow adequate stopping distance because brake performance may be reduced.

After driving through water, dry the brakes by gently applying them several times while the vehicle is moving slowly.

## **Highway driving**

#### Tires

Adjust the tire inflation, as specified. Under-inflation may overheat or damage the tires.

Do not install worn-out or damaged tires, which may reduce traction or fail the braking operation.

## **i** Information

Never over-inflate your tires above the maximum inflation pressure, as specified on your tires.

# Fuel, engine coolant and engine oil

Driving at higher speeds on the highway consumes more fuel and is less efficient than driving at a slower, more moderate speed. Maintain a moderate speed in order to conserve fuel when driving on the highway.

Be sure to check both the engine coolant level and the engine oil before driving.

#### Drive belt

A loose or damaged drive belt may overheat the engine.

#### WINTER DRIVING

The severe weather conditions of winter quickly wear out tires and cause other problems. To minimize winter driving problems, you should take the following suggestions:

## Snow or icy conditions

You need to keep sufficient distance between your vehicle and the vehicle in front of you.

Apply the brakes gently. Speeding, rapid acceleration, sudden brake applications, and sharp turns are potentially very hazardous practices. During deceleration, use engine braking to the fullest extent. Sudden brake applications on snowy or icy roads may cause the vehicle to skid.

To drive your vehicle in deep snow, it may be necessary to use snow tires or to install tire chains on your tires.

Always carry emergency equipment. Some of the items you may want to carry include tire chains, tow straps or chains, a flashlight, emergency flares, sand, a shovel, jumper cables, a window scraper, gloves, ground cloth, coveralls, a blanket, etc.

#### Snow tires

### **A WARNING**

Snow tires should be equivalent in size and type to the vehicle's standard tires. Otherwise, the safety and handling of your vehicle may be adversely affected.

If you mount snow tires on your vehicle, make sure to use radial tires of the same size and load range as the original tires. Mount snow tires on all four wheels to balance your vehicle's handling in all weather conditions. The traction provided by snow tires on dry roads may not be as high as your vehicle's original equipment tires. Check with the tire dealer for maximum speed recommendations.

## Information

Do not install studded tires without first checking local, state and municipal regulations for possible restrictions against their use.

#### Tire chains



Since the sidewalls of radial tires are thinner than other types of tires, they may be damaged by mounting some types of tire chains on them. Therefore, the use of snow tires is recommended instead of tire chains. Do not mount tire chains on vehicles equipped with aluminum wheels; if unavoidable use a wire type chain. If tire chains must be used, use genuine HYUNDAI parts and install the tire chain after reviewing the instructions provided with the tire chains. Damage to your vehicle caused by improper tire chain use is not covered by your vehicle manufacturer's warrantv.

#### **A** WARNING

The use of tire chains may adversely affect vehicle handling:

- Drive less than 20 mph (30 km/h) or the chain manufacturer's recommended speed limit, whichever is lower.
- Drive carefully and avoid bumps, holes, sharp turns, and other road hazards, which may cause the vehicle to bounce.
- Avoid sharp turns or locked wheel braking.

## Information

- Install tire chains on the front tires. It should be noted that installing tire chains on the tires will provide a greater driving force, but will not prevent side skids.
- Do not install studded tires without first checking local, state and municipal regulations for possible restrictions against their use.

#### **Chain Installation**

When installing tire chains, follow the manufacturer's instructions and mount them as tightly possible. Drive slowly (less than 20 mph (30 km/h)) with chains installed. If you hear the chains contacting the body or chassis, stop and tighten them. If they still make contact, slow down until the noise stops. Remove the tire chains as soon as you begin driving on cleared roads.

When mounting snow chains, park the vehicle on level ground away from traffic. Turn on the vehicle Hazard Warning Flasher and place a triangular emergency warning device behind the vehicle (if available). Always place the vehicle in P (Park), apply the parking brake and turn off the engine before installing snow chains.

#### NOTICE

When using tire chains:

- Wrong size chains or improperly installed chains can damage your vehicle's brake lines, suspension, body and wheels.
- Use SAE "S" class or wire chains.
- If you hear noise caused by chains contacting the body, retighten the chain to prevent contact with the vehicle body.
- To prevent body damage, retighten the chains after driving 0.3~0.6 miles (0.5~1.0 km).
- Do not use tire chains on vehicles equipped with aluminum wheels. If unavoidable, use a wire type chain.
- Use wire chains less than 0.47 in (12 mm) wide to prevent damage to the chain's connection.

#### **Winter Precautions**

# Use high quality ethylene glycol coolant

Your vehicle is delivered with high quality ethylene glycol coolant in the cooling system. It is the only type of coolant that should be used because it helps prevent corrosion in the cooling system, lubricates the water pump and prevents freezing. Be sure to replace or replenish your coolant in accordance with the maintenance schedule in section 7. Before winter, have your coolant tested to assure that its freezing point is sufficient for the temperatures anticipated during the winter.

#### Check battery and cables

The winter temperature increases the battery consumption. Inspect the battery and cables, as specified in the chapter 7. The battery charging level can be checked by an authorized HYUNDAI dealer or in a service station.

# Change to "winter weight" oil if necessary

In some regions during winter, it is recommended to use the "winter weight" oil with lower viscosity. For further information, refer to the chapter 8. When you are not sure about a type of winter weight oil, consult an authorized HYUNDAI dealer.

# Check spark plugs and ignition system

Inspect the spark plugs, as specified in the chapter 7. If necessary, replace them. Also check all ignition wirings and components for any cracks, wear-out, and damage.

#### To prevent locks from freezing

To prevent the locks from being frozen, spray approved de-icing fluid or glycerin into key holes. When a lock opening is already covered with ice, spray approved de-icing fluid over the ice to remove it. When an internal part of a lock freezes, try to thaw it with a heated key. Carefully use the heated key to avoid an injury.

# Use approved window washer anti-freeze solution in system

To prevent the window washer from being frozen, add authorized window washer anti-freeze solution, as specified on the window washer container. Window washer anti-freeze solution is available from an authorized HYUNDAI dealer, and so are the most vehicle accessory outlets. Do not use engine coolant or other types of anti-freeze solution to prevent any damage to the vehicle paint.

# Do not let your parking brake freeze

Under some conditions your parking brake can freeze in the engaged position. This is most likely to happen when there is an accumulation of snow or ice around or near the rear brakes or if the brakes are wet.

When there is the risk that your parking brake may freeze, temporarily apply it with the shift lever in P (Park). Also, block the rear wheels in advance, so the vehicle may not roll. Then, release the parking brake.

## Do not let ice and snow accumulate underneath

Under some conditions, snow and ice can build up under the fenders and interfere with the steering. When driving in such conditions during the severe winter, you should check underneath the vehicle on a regular basis, so that moving the front wheels and the steering components is unblocked.

#### Carry emergency equipment

In accordance with weather conditions, you should carry appropriate emergency equipment, while driving. Some of the items you may want to carry include tire chains, tow straps or chains, flashlight, emergency flares, sand, shovel, jumper cables, window scraper, gloves, ground cloth, coveralls, blanket, etc.

# Do not place objects or materials in the engine compartment

Putting objects or materials in the engine compartment may cause an engine failure or combustion, because those may block the engine cooling. Such damage will not be covered by the manufacturer's warranty.

#### **VEHICLE LOAD LIMIT**

Two labels on your driver's door sill show how much weight your vehicle was designed to carry: the Tire and Loading Information Label and the Certification Label.

Before loading your vehicle, familiarize yourself with the following terms for determining your vehicle's weight ratings, from the vehicle's specifications and the Certification Label:

#### **Base Curb Weight**

This is the weight of the vehicle including a full tank of fuel and all standard equipment. It does not include passengers, cargo, or optional equipment.

#### **Vehicle Curb Weight**

This is the weight of your new vehicle when you picked it up from your dealer plus any aftermarket equipment.

### **Cargo Weight**

This figure includes all weight added to the Base Curb Weight, including cargo and optional equipment.

### **GAW (Gross Axle Weight)**

This is the total weight placed on each axle (front and rear) - including vehicle curb weight and all payload.

#### **GAWR (Gross Axle Weight Rating)**

This is the maximum allowable weight that can be carried by a single axle (front or rear). These numbers are shown on the Certification Label. The total load on each axle must never exceed its GAWR.

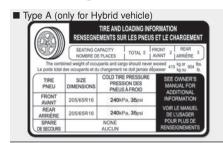
#### **GVW (Gross Vehicle Weight)**

This is the Base Curb Weight plus actual Cargo Weight plus passengers.

# **GVWR (Gross Vehicle Weight Rating)**

This is the maximum allowable weight of the fully loaded vehicle (including all options, equipment, passengers and cargo). The GVWR is shown on the Certification Label located on the driver's door sill.

## Tire loading information label





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The label located on the driver's door sill gives the original tire size, cold tire pressures recommended for your vehicle, the number of people that can be in your vehicle and vehicle capacity weight.

### Vehicle capacity weight

904 lbs. (410 kg)

Vehicle capacity weight is the maximum combined weight of occupants and cargo. If your vehicle is equipped with a trailer, the combined weight includes the tongue load.

## Seating capacity

Total: 5 persons

(Front seat : 2 persons, Rear seat : 3 persons)

Seating capacity is the maximum number of occupants including a driver, your vehicle may carry. However, the seating capacity may be reduced based upon the weight of all of the occupants, and the weight of the cargo being carried or towed. Do not overload the vehicle as there is a limit to the total weight, or load limit including occupants and cargo, the vehicle can carry.

### Towing capacity

We do not recommend using this vehicle for trailer towing.

## Cargo capacity

The cargo capacity of your vehicle will increase or decrease depending on the weight and the number of occupants and the tongue load, if your vehicle is equipped with a trailer.

## Steps for determining correct load limit

- Locate the statement "The combined weight of occupants and cargo should never exceed XXX kg or XXX lbs." on your vehicle's placard.
- 2. Determine the combined weight of the driver and passengers that will be riding in your vehicle.
- Subtract the combined weight of the driver and passengers from XXX kg or XXX lbs.
- 4. The resulting figure equals the available amount of cargo and luggage load capacity. For example, if the "XXX" amount equals 1400 lbs. and there will be five 150 lb. passengers in your vehicle, the amount of available cargo and luggage load capacity is 650 lbs. (1400 750 (5 x 150) = 650 lbs.)
- Determine the combined weight of luggage and cargo being loaded on the vehicle. That weight may not safely exceed the available cargo and luggage load capacity calculated in Step 4.

If your vehicle will be towing a trailer, load from your trailer will be transferred to your vehicle.
 Consult this manual to determine how this reduces the available cargo and luggage load capacity of your vehicle.

#### **A** WARNING

Do not overload the vehicle as there is a limit to the total weight, or load limit, including occupants and cargo, the vehicle can carry. Overloading can shorten the life of the vehicle. If the GVWR or the GAWR is exceeded, parts on the vehicle can break, and it can change the handling of your vehicle. These could cause you to lose control and result in an accident.

Example 1	Vehicle Capacity	≥	**	+		
	Maximum Load (1400 lbs.) (635 kg)		Passenger Weight (150 lbs. × 2 = 300 lbs.) (68 kg × 2 = 136 kg)		Cargo Weight (1100 lbs.) (499 kg)	
Example 2	Vehicle Capacity	≥	444 44	+		
	Maximum Load (1400 lbs.) (635 kg)		Passenger Weight (150 lbs. $\times$ 5 = 750 lbs.) (68 kg $\times$ 5 = 340 kg)		Cargo Weight (650 lbs.) (295 kg)	
Example 3	Vehicle Capacity	≥	<b>444</b> <b>44</b>	+		
	Maximum Load (1400 lbs.) (635 kg)		Passenger Weight (172 lbs. $\times$ 5 = 860 lbs.) (78 kg $\times$ 5 = 390 kg)		Cargo Weight (540 lbs.) (245 kg)	

#### Certification label



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The certification label is located on the driver's door sill at the center pillar and shows the maximum allowable weight of the fully loaded vehicle. This is called the GVWR (Gross Vehicle Weight Rating). The GVWR includes the weight of the vehicle, all occupants, fuel and cargo.

This label also tells you the maximum weight that can be supported by the front and rear axles, called Gross Axle Weight Rating (GAWR).

The total weight of the vehicle, including all occupants, accessories, cargo, and trailer tongue load must not exceed the Gross Vehicle Weight Rating (GVWR) or the Gross Axle Weight Rating (GAWR). To find out the actual loads on your front and rear axles, you need to go to a weigh station and weigh your vehicle. Be sure to spread out your load equally on both sides of the centerline.

### **A** WARNING

### Overloading

- Never exceed the GVWR for your vehicle, the GAWR for either the front or rear axle and vehicle capacity weight. Exceeding these ratings can affect your vehicle's handling and braking ability, and cause an accident.
- Do not overload your vehicle. Overloading your vehicle can cause heat buildup in your vehicle's tires and possible tire failure, increased stopping distances and poor vehicle handling-all of which may result in a crash.

#### NOTICE

Overloading your vehicle may cause damage. Repairs would not be covered by your warranty. Do not overload your vehicle.

#### **A** WARNING

If you carry items inside your vehicle (e.g., suitcases, tools, packages, or anything else), they are moving as fast as the vehicle. If you have to stop or turn quickly, or if there is a crash, the items will keep going and can cause an injury if they strike the driver or a passenger.

- Put items in the cargo area of your vehicle. Try to spread the weight evenly.
- Do not stack items, like suitcases, inside the vehicle above the tops of the seats.
- Do not leave an unsecured child restraint in your vehicle.
- When you carry something inside the vehicle, secure it.

#### TRAILER TOWING

We do not recommend using this vehicle for trailer towing.

### What to do in an emergency

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#### HAZARD WARNING FLASHER



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 both the left and right. The button is located in the center fascia panel. All turn signal lights will flash simultaneously.

- The hazard warning flasher operates whether your vehicle is running or not.
- The turn signals do not work when the hazard flasher is on.

# IN CASE OF AN EMERGENCY WHILE DRIVING

### If 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 hybrid system again. If your vehicle will not start, 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 crossroad or crossing, if safe to do so, move the shift lever to the N (Neutral) position and then push the vehicle to a safe location.

### 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, move the shift lever into P(Park), and apply the parking brake, and place the Engine Start/Stop button in 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 WILL NOT START

- Be sure the shift lever is in P (Park). The vehicle starts only when the shift lever is in P (Park).
- Check the 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 battery is drained.

Do not push or pull the vehicle to start it. This could cause damage to your vehicle. See instructions for "Jump Starting" provided in this chapter.

#### **!** CAUTION

Push or pull starting the vehicle may cause the catalytic converter to overload which can lead to damage to the emission control system.

#### If the engine turns over normally but doesn't start

Check the fuel level and add fuel if necessary.

If the engine still does not start, have your vehicle checked by an authorized HYUNDAI dealer.

#### JUMP STARTING

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.

#### **A** 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.

(Continued)

#### (Continued)



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.

(Continued)

#### (Continued)

- 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 engine running or when the ignition switch is in the ON position.

#### Information



An inappropriately disposed battery can be harmful to the environment and human health. Dispose the battery according to your local law(s) or regulations.

#### NOTICE

To prevent damage to your vehicle:

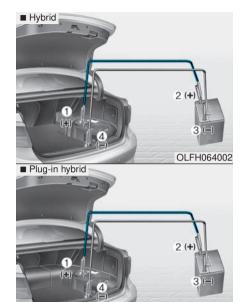
- Only use a 12-volt power supply (battery or jumper system) to jump start your vehicle.
- Do not attempt to jump start your vehicle by push-starting.

#### Jump starting procedure

- Position the vehicles close enough that the jumper cables will reach, but do not allow the vehicles to touch.
- Avoid fans or any moving parts in the engine compartment at all times, even when the vehicles are turned off.
- Turn off all electrical devices such as radios, lights, air conditioning, etc. Put the vehicles in P (Park) and set the parking brakes. Turn both vehicles OFF.

#### **i** Information

Your vehicle has a battery in the trunk compartment.



4. Connect the jumper cables in the exact sequence shown in the illustration. First connect one jumper cable to the red, positive (+) jumper terminal of your vehicle (1).

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- 5. Connect the other end of the jumper cable to the red, positive (+) battery/jumper terminal of the assisting vehicle (2).
- 6. Connect the second jumper cable to the black, negative (-) battery/ chassis ground of the assisting vehicle (3).
- 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.
- Start the engine of the assisting vehicle and let it run at approximately 2,000 rpm for a few minutes. Then start your vehicle.

If your vehicle will not start after a few attempts, it probably requires servicing. In this event please seek qualified assistance. If the cause of your battery discharging is not apparent, have your vehicle checked by an authorized HYUNDAI dealer.

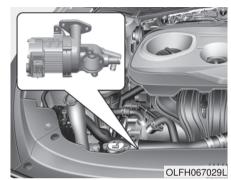
Disconnect the jumper cables in the exact reverse order you connected them:

- 1. Disconnect the jumper cable from the black, negative (-) chassis ground of your vehicle (4).
- 2. Disconnect the other end of the jumper cable from the black, negative (-) battery/chassis ground of the assisting vehicle (3).
- 3. Disconnect the second jumper cable from the red, positive (+) battery/jumper terminal of the assisting vehicle (2).
- 4. Disconnect the other end of the jumper cable from the red, positive (+) jumper terminal of your vehicle (1).

#### IF THE ENGINE OVERHEATS

If your engine coolant temperature gauge indicates overheating, you experience a loss of power, or hear loud pinging or knocking, the engine may be overheating. If this happens, you should:

- 1. Turn ON the hazard warning flasher, pull off the road and stop as soon as it is safe to do so.
- 2. Place the shift lever in P (Park) and set the parking brake.



- 3. Make sure that there is no hot steam gushing out of the engine compartment. When it is safe to do so, open the engine compartment, and check the water-pump connector. When the water-pump connector is disconnected, stop the engine, re-connect the water-pump connector, and then re-start the engine.
- Set the temperature and the air flow to the maximum, and turn ON the air conditioner.

- 5. When the Service warning light ( ) illuminates on the instrument cluster, immediately stop the engine, and contact an authorized HYUNDAI dealer. When the engine warning light ( ) illuminates, or when the coolant or hot steams gush out of the engine compartment, leave the engine compartment opened, while running the engine. This is to ventilate the engine compartment and to cool down the engine.
- 6. Check the coolant temperature gauge on the instrument cluster to make sure the coolant temperature is sufficiently cooled down. Check the coolant level. When it is insufficient, check its connection with the radiator, the heater hose, and the water pump for any leakage. When there is no leakage, add the coolant. However, if the problems persists, such as the illumination of the warning lights, leakages, or the cooling-fan malfunction, which may overheat the engine, immediately stop the engine, and have your vehicle checked by an authorized HYUNDAI dealer.

#### **A** WARNING



The electric motor for the cooling fan may continue to operate or start up when the engine is not running

and can cause serious injury. Keep hands, clothing and tools away from the rotating fan blades of the cooling fan.

#### **A** WARNING



Your vehicle is equipped with a pressurized coolant reserve tank. NEVER remove the coolant

reserve tank cap or the radiator drain plug while the engine and radiator are HOT. Hot coolant and steam may blow out under pressure, causing serious injury.

Turn the engine off and wait until the engine cools down. Use extreme care when removing the coolant reserve tank cap. Wrap a towel or thick rag around it, and turn it counterclockwise slowly to release some of the pressure from the system. Step back while the pressure is released.

When you are sure all the pressure has been released, continue turning the cap counterclockwise to remove it.

- 7. If you cannot find the cause of the overheating, wait until the engine temperature has returned to normal. Then, if coolant has been lost, carefully add coolant to the reservoir to bring the fluid level in the reservoir up to the halfway mark.
- Proceed with caution, keeping alert for further signs of overheating. If overheating happens again, call an authorized HYUNDAI dealer for assistance.

#### **!** CAUTION

Serious loss of coolant indicates a leak in the cooling system and should be checked as soon as possible by an authorized HYUNDAI dealer.

#### 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 LCD display)

#### **Check tire pressure**



- You can check the tire pressure in the Information Mode on the cluster.
  - Refer to the "User Settings Mode" section in chapter 3.
- Tire pressure is displayed after a few minutes of driving after initial engine start up.
- If tire pressure is not displayed when the vehicle is stopped, "Drive to display" message will appear. After driving, check the tire pressure.

- The displayed tire pressure values may differ from those measured with a tire pressure gauge.
- You can change the tire pressure unit in the User Settings Mode on the cluster.
  - psi, kpa, bar (Refer to the "User Settings Mode" section in chapter 3).

## Tire Pressure Monitoring System

#### **A** WARNING

Over-inflation or under-inflation can reduce tire life, adversely affect vehicle handling, and lead to sudden tire failure that may cause loss of vehicle control resulting in an accident.

Each tire, including the spare (if provided), should be checked monthly when cold and inflated to the inflation pressure recommended by the vehicle manufacturer on the vehicle placard or tire inflation pressure label. (If your vehicle has tires of a different size than the size indicated on the vehicle placard or tire inflation pressure label, you should determine the proper tire inflation pressure for those tires.)

As an added safety feature, your vehicle has been equipped with a tire pressure monitoring system (TPMS) that illuminates a low tire pressure telltale when one or more of your tires is significantly under-inflated. Accordingly, when the low tire pressure telltale illuminates, you should stop and check your tires as soon as possible, and inflate them to the proper pressure. Driving on a significantly underinflated tire causes the tire to overheat and can lead to tire failure.

Under-inflation also reduces fuel efficiency and tire tread life, and may affect the vehicle's handling and stopping ability.

Please note that the TPMS is not a substitute for proper tire maintenance, and it is the driver's responsibility to maintain correct tire pressure, even if under-inflation has not reached the level to trigger illumination of the TPMS low tire pressure telltale.

Your vehicle has also been equipped with a TPMS malfunction indicator to indicate when the system is not operating properly.

The TPMS malfunction indicator is combined with the low tire pressure telltale. When the system detects a malfunction, the telltale will flash for approximately one minute and then remain continuously illuminated. This sequence will continue upon subsequent vehicle start-ups as long as the malfunction exists.

When the malfunction indicator is illuminated, the system may not be able to detect or signal low tire pressure as intended. TPMS malfunctions may occur for a variety of reasons, including the installation of replacement or alternate tires or wheels on the vehicle that prevent the TPMS from functioning properly. Always check the TPMS malfunction telltale after replacing one or more tires or wheels on your vehicle to ensure that the replacement or alternate tires and wheels allow the TPMS to continue to function properly.

#### NOTICE

If any of the below happens, have the system checked by an authorized HYUNDAI dealer.

- 1. The Low Tire Pressure Telltale/ TPMS Malfunction Indicator does not illuminate for 3 seconds when the ignition switch is placed to the ON position or engine is running.
- 2. The TPMS Malfunction Indicator remains illuminated after blinking for approximately 1 minute.
- 3. The Low Tire Pressure Position Telltale remains illuminated



#### Low Tire Pressure Telltale



**Low Tire Pressure Position and Tire** Pressure Telltale

When the tire pressure monitoring system warning indicators are illuminated and warning message displayed on the cluster LCD display. one or more of your tires is significantly under-inflated. The Low Tire Pressure Position Telltale will indicate which tire is significantly underinflated by illuminating the corresponding position light.

If either telltale illuminates, immediately reduce your speed, avoid hard cornering and anticipate increased stopping distances. You should stop and check your tires as soon as possible. Inflate the tires to the proper pressure as indicated on the vehicle's placard or tire inflation pressure label located on the driver's side center pillar outer panel.

If you cannot reach a service station or if the tire cannot hold the newly added air, replace the low pressure tire with the spare tire.

The Low Tire Pressure Telltale will remain on and the TPMS Malfunction. Indicator may blink for one minute and then remain illuminated (when the vehicle is driven approximately 20 minutes at speed above 15.5 mph (25 km/h)) until you have the low pressure tire repaired and replaced on the vehicle.

#### Information

The spare tire is not equipped with a tire pressure sensor.

#### **A** CAUTION

In winter or cold weather, the Low Tire Pressure Telltale may be illuminated if the tire pressure was adjusted to the recommended tire inflation pressure in warm weather. It does not mean your TPMS is malfunctioning because the decreased temperature leads to a proportional lowering of tire pressure. When you drive your vehicle from a warm area to a cold area or from a cold area to a warm area, or the outside temperature is greatly higher or lower, you should check the tire inflation pressure and adjust the tires to the recommended tire inflation pressure.

#### **A** WARNING

Low pressure damage

Significantly low tire pressure makes the vehicle unstable and can contribute to loss of vehicle control and increased braking distances.

Continued driving on low pressure tires can cause the tires to overheat and fail.



# TPMS (Tire Pressure Monitoring System) Malfunction Indicator

The TPMS Malfunction Indicator will illuminate after it blinks for approximately one minute when there is a problem with the Tire Pressure Monitoring System.

Have the system checked by an authorized HYUNDAI dealer as soon as possible.

#### NOTICE

If there is a malfunction with the TPMS, the Low Tire Pressure Position Telltale will not be displayed even though the vehicle has an under-inflated tire.

#### NOTICE

The TPMS Malfunction Indicator may illuminate after blinking for one minute if the vehicle is near electric power supply cables or radio transmitters such as police stations, government and public offices, broadcasting stations, military installations, airports, transmitting towers, etc.

Additionally, the TPMS Malfunction Indicator may illuminate if snow chains are used or electronic devices such as computers, chargers, remote starters, navigation, etc. This may interfere with normal operation of the TPMS.

#### **Changing a Tire with TPMS**

If you have a flat tire, the Low Tire Pressure and Position telltales will come on. Have the flat tire repaired by an authorized HYUNDAI dealer as soon as possible or replace the flat tire with the spare tire.

#### **A** CAUTION

It is recommended that you do not use a puncture-repairing agent not approved by HYUNDAI dealer to repair and/ or inflate a low pressure tire. Tire sealant not approved by HYUNDAI dealer may damage the tire pressure sensor.

The spare tire (if equipped) does not come with a tire pressure monitoring sensor. When the low pressure tire or the flat tire is replaced with the spare tire, the Low Tire Pressure Telltale will remain on. Also, the TPMS Malfunction Indicator will illuminate after blinking for one minute if the vehicle is driven at speed above 15.5 mph (25 km/h) for approximately 20 minutes.

Once the original tire equipped with a tire pressure monitoring sensor is reinflated to the recommended pressure and reinstalled on the vehicle, the Low Tire Pressure Telltale and TPMS Malfunction Indicator will go off within a few minutes of driving.

If the indicators do not extinguish after a few minutes, please visit an authorized HYUNDAI dealer.

Each wheel is equipped with a tire pressure sensor mounted inside the tire behind the valve stem (except for the spare tire). You must use TPMS specific wheels. It is recommended that you always have your tires serviced by an authorized HYUNDAI dealer.

You may not be able to identify a tire with low pressure by simply looking at it. Always use a good quality tire pressure gauge to measure. Please note that a tire that is hot (from being driven) will have a higher pressure measurement than a tire that is cold.

A cold tire means the vehicle has been sitting for 3 hours and driven for less than 1 mile (1.6 km) in that 3 hour period.

Allow the tire to cool before measuring the inflation pressure. Always be sure the tire is cold before inflating to the recommended pressure.

#### **A** WARNING

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

#### **A** WARNING

Tampering with, modifying, or disabling the Tire Pressure Monitoring System (TPMS) components may interfere with the system's ability to warn the driver of low tire pressure conditions and/or TPMS malfunctions. Tampering with, modifying, or disabling the Tire Pressure Monitoring System (TPMS) components may void the warranty for that portion of the vehicle.

#### **i** Information

This device complies with Part 15 of the FCC rules.

Operation is subject to the following three conditions:

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

# IF YOU HAVE A FLAT TIRE With tire mobility kit - Type A



For safe operation, carefully read and follow the instructions in this manual before use.

- (1) Compressor
- (2) Sealant bottle

The Tire Mobility Kit is a temporary fix to the tire and the tire should be inspected by an authorized HYUNDAI dealer as soon as possible.

#### **A** CAUTION

One sealant bottle for one tire

When two or more tires are flat, do not use the tire mobility kit because the supported one sealant of Tire Mobility Kit is only used for one flat tire.

#### **A** WARNING

Tire wall

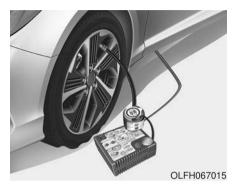
Do not use the Tire Mobility Kit to repair punctures in the tire walls. This can result in an accident due to tire failure.

#### **A** WARNING

#### **Temporary fix**

Have your tire repaired as soon as possible. The tire may lose air pressure at any time after inflating with the Tire Mobility Kit.

#### Introduction



With the Tire Mobility Kit you stay mobile even after experiencing a tire puncture.

The compressor and sealing compound system effectively and comfortably seals most punctures in a passenger car tire caused by nails or similar objects and reinflates the tire.

After you ensure that the tire is properly sealed you can drive cautiously on the tire (distance up to 120 miles (200 km)) at a max. speed of (50mph (80 km/h)) in order to reach a service station or tire dealer for the tire replacement.

It is possible that some tires, especially with larger punctures or damage to the sidewall, cannot be sealed completely.

Air pressure loss in the tire may adversely affect tire performance.

For this reason, you should avoid abrupt steering or other driving maneuvers, especially if the vehicle is heavily loaded or if a trailer is in use.

The Tire Mobility Kit is not designed or intended as a permanent tire repair method and is to be used for one tire only.

This instruction shows you step by step how to temporarily seal the puncture simply and reliably.

Read the section "Notes on the safe use of the Tire Mobility Kit".

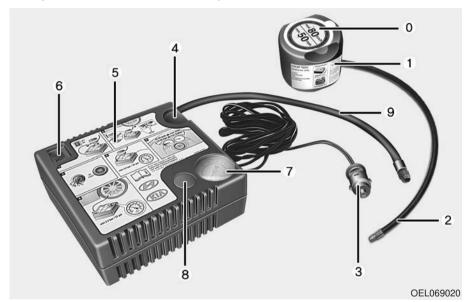
#### Notes on the safe use of the Tire Mobility Kit

- Park your car at the side of the road so that you can work with the Tire Mobility Kit away from moving traffic.
- To be sure your vehicle will not move, even when you're on fairly level ground, always set your parking brake.
- Only use the Tire Mobility Kit for sealing/inflation passenger car tires. Only punctured areas located within the tread region of the tire can be sealed using the tire mobility kit.
- Do not use on motorcycles, bicycles or any other type of tires.
- When the tire and wheel are damaged, do not use Tire Mobility Kit for your safety.
- Use of the Tire Mobility Kit may not be effective for tire damage larger than approximately 0.24 inch (6 mm).

Please contact the nearest HYUNDAI dealership if the tire cannot be made roadworthy with the Tire Mobility Kit.

- Do not use the Tire Mobility Kit if a tire is severely damaged by driving run flat or with insufficient air pressure.
- Do not remove any foreign objects such as nails or screws that have penetrated the tire.
- Provided the car is outdoors, leave the engine running. Otherwise operating the compressor may eventually drain the car battery.
- Never leave the Tire Mobility Kit unattended while it is being used.
- Do not leave the compressor running for more than 10 minutes at a time or it may overheat.
- Do not use the Tire Mobility Kit if the ambient temperature is below -22°F (-30°C).

#### Components of the Tire Mobility Kit



- 0. Speed restriction label
- 1. Sealant bottle and label with speed restriction
- 2. Filling hose from sealant bottle to wheel
- 3. Connectors and cable for power outlet direct connection

- 4. Holder for the sealant bottle
- 5. Compressor
- 6. ON/OFF switch
- 7. Pressure gauge for displaying the tire inflation pressure
- 8. Screw cap for reducing tire inflation pressure

Hose to connect compressor and sealant bottle or compressor and wheel

Connectors, cable and connection hose are stored in the compressor housing.

Strictly follow the specified sequence, otherwise the sealant may escape under high pressure.

#### **A** WARNING

Do not use the tire sealant after the sealant has expired (i.e. pasted the expiration date on the sealant container). This can increase the risk of tire failure.

#### **A** WARNING

- · Keep out of reach of children.
- Avoid contact with eyes.
- Do not swallow.

#### Using the Tire Mobility Kit

 Detach the speed restriction label (0) from the sealant bottle (1), 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.



- 2. Screw the connection hose (9) onto the connector of the sealant bottle.
- 3. Ensure that the screw cap (8) is closed.



4. Unscrew the valve cap from the valve of the flat tire and screw the filling hose (2) of the sealant bottle onto the valve.

#### **A** CAUTION

Securely install the sealant filling hose to the valve. If not, sealant may flow backward, possibly clogging the filling hose.





- 5. Insert the sealant bottle into the housing (4) of the compressor so that the bottle is upright.
- 6. Ensure that the compressor is switched off, position 0.



- 7. Plug the compressor power cord (3) into the vehicle power outlet.
- 8. With the ignition switch in the ON position, switch on the compressor and let it run for approximately 5~7 minutes to fill the sealant up to proper pressure. (refer to the Tire and Wheels, chapter 8). The inflation pressure of the tire after filling is unimportant and will be checked/corrected later.

Be careful not to overinflate the tire and stay away from the tire when filling it.

#### **A** CAUTION

Do not attempt to drive your vehicle if the tire pressure is below 29 psi (200kpa). This could result in an accident due to sudden tire failure.

- 9. Switch off the compressor.
- 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.

#### **A** WARNING

Do not leave your vehicle running in a poorly ventilated area for extended periods of time. Carbon monoxide poisoning and suffocation can occur.

#### Distributing the sealant

11. Immediately drive approximately 4~6miles (7~10km or about 10 minutes) to evenly distribute the sealant in the tire.

Do not exceed a speed of 50 mph (80 km/h). If possible, do not fall below a speed of 12 mph (20 km/h).

While driving, if you experience any unusual vibration, ride disturbance or noise, reduce your speed and drive with caution until you can safely pull off of the side of the road.

#### **A** CAUTION

Never use a puncture-repairing agent not approved by HYUNDAI dealer to repair and/or inflate a low pressure tire. Tire sealant not approved by HYUNDAI dealer may damage the tire pressure sensor.



### Checking the tire inflation pressure

- After driving approximately 4~6miles (7~10km or about 10 minutes), stop at a safe location.
- 2. Connect hose (9) 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 ignition switched on, proceed as follows.

- To increase the inflation pressure:

Switch on the compressor, position to [I]. To check the current inflation pressure setting, briefly switch off the compressor.

- To reduce the inflation pressure:

Loosen the screw cap (8) on the compressor hose.

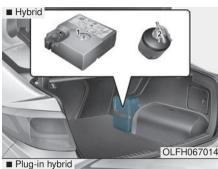
### **1** Information

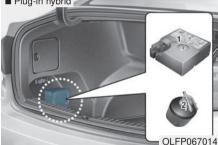
The pressure gauge may show higher than actual reading when the compressor is running. To get an accurate tire pressure, the compressor needs to be turned off.

#### **A** CAUTION

When you use the Tire Mobility Kit including sealant not approved by HYUNDAI, the tire pressure sensors may be damaged by sealant. The sealant on the tire pressure sensor and wheel should be removed when you replace the tire with a new one and inspect the tire pressure sensors at an authorized dealer.

#### With tire mobility kit - Type B





For safe operation, carefully read and follow the instructions in this manual before use.

- (1) Compressor
- (2) Sealant bottle

The Tire Mobility Kit is a temporary fix to the tire and we recommend that the system be inspected by an authorized HYUNDAI dealer.

#### **A** 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.

#### **A** WARNING

Do not use the Tire Mobility Kit to repair punctures in the tire walls. This can result in an accident due to tire failure.

#### **A** WARNING

Have your tire repaired as soon as possible. The tire may loose 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 system of compressor and sealing compound effectively and comfortably seals most punctures in a passenger car tire caused by nails or similar objects and reinflates the tire.

After you ensured that the tire is properly sealed you can drive cautiously on the tire (distance up to 120 miles (200 km)) at a max. speed of 50 mph (80 km/h) in order to reach a service station or tire dealer to have the tire replaced.

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".

#### **A** WARNING

Do not use the TMK if a tire is severely damaged by driving run flat or with insufficient air pressure.

Only punctured areas located within the tread region of the tire can be sealed using the TMK.

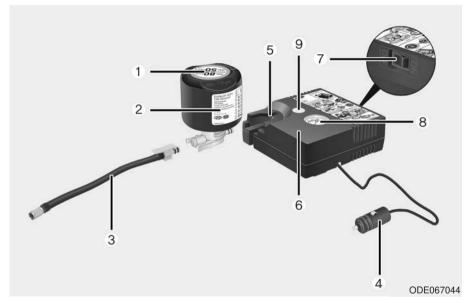
#### Notes on the safe use of the Tire Mobility Kit

- Park your car at the side of the road so that you can work with the Tire Mobility Kit away from moving traffic.
- To be sure your vehicle will not move, even when you're on fairly level ground, always set your parking brake.
- Only use the Tire Mobility Kit for sealing/inflation passenger car tires. Only punctured areas located within the tread region of the tire can be sealed using the tire mobility kit.
- Do not use on motorcycles, bicycles or any other type of tires.
- When the tire and wheel are damaged, do not use Tire Mobility Kit for your safety.
- Use of the Tire Mobility Kit may not be effective for tire damage larger than approximately 0.24 in (6 mm).
   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 engine running. Otherwise operating the compressor may eventually drain the car battery.
- Never leave the Tire Mobility Kit unattended while it is being used.
- Do not leave the compressor running for more than 10 min. at a time or it may overheat.
- Do not use the Tire Mobility Kit if the ambient temperature is below -22°F (-30°C).
- In case of skin contact with the sealant, wash the area thoroughly with plenty of water. If the irritation persists, seek medical attention.
- In case of eye contact with the sealant, flush your eyes for at least 15 minutes. If the irritation persists, seek medical attention.

- In case of swallowing the sealant, rinse the mouth and drink plenty 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 from sealant bottle to wheel
- 4. Connectors and cable for the power outlet direct connection

- 5. Holder for the sealant bottle
- 6. Compressor
- 7. ON/OFF switch
- 8. Pressure gauge for displaying the tire inflation pressure
- 9. Button for reducing 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.

#### **A WARNING**

#### **Expired sealant**

Do not use the Tire sealant after the sealant has expired (i.e. pasted the expiration date on the sealant container). This can increase the risk of tire failure.

#### **A** WARNING

#### **Sealant**

- · Keep out of reach of children.
- Avoid contact with eyes.
- Do not swallow.

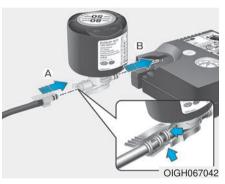
#### Using the Tire Mobility Kit

#### **A** 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.

- 1. Shake the sealant bottle (2).
- 2. Connect the filling hose (3) to the sealant bottle (2) in the direction of (A) and connect the sealant bottle to the compressor (6) in the direction of (B).



3. Ensure that the compressor is switched OFF.



 Unscrew the valve cap from the valve of the defective wheel and screw the filling hose (3) of the sealant bottle onto the valve.

#### **A** CAUTION

Securely install the sealant filling hose to the valve. If not, sealant may flow backward, possibly clogging the filling hose.



5. Plug the compressor power cord (3) into the vehicle power outlet.

#### NOTICE

Only use the front passenger side power outlet when connecting the power cord.

6. With the Engine Start/Stop button in the ON position, switch on the compressor and let it run for approximately 5~7 minutes to fill the sealant up to proper pressure. (refer to the Tire and Wheels, chapter 8). The inflation pressure of the tire after filling is unimportant and will be checked/corrected later.

Be careful not to overinflate the tire and stay away from the tire when filling it.

#### **A** 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.
- Detach the hoses from the sealant bottle connector and from the tire valve.

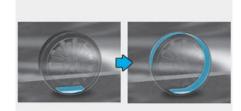
Return the Tire Mobility Kit to its storage location in the vehicle.

#### **A** WARNING

#### Carbon monoxide

Do not leave your vehicle running in a poorly ventilated area for extended periods of time. Carbon monoxide poisoning and suffocation can occur.

#### Distributing the sealant



OLMF064106

9. Immediately drive approximately 4~6 miles (7~10 km or, about 10min) to evenly distribute the sealant in the tire.

Do not exceed a speed of 50 mph (80 km/h). If possible, do not fall below a speed of 12 mph (20 km/h).

While driving, if you experience any unusual vibration, ride disturbance or noise, reduce your speed and drive with caution until you can safely pull off of the side of the road

Call for road side service or towing. When you use the Tire Mobility Kit, the tire pressure sensors and wheel may be damaged by sealant, remove the sealant stained with tire pressure sensors and wheel and inspect in authorized dealer.

### Checking the tire inflation pressure





- 1. After driving approximately 4~6 miles (7~10 km or about 10 min), stop at a safety 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.
- Adjust the tire inflation pressure to the recomended tire inflation.
   With the ignition swithched on, proceed as follows.
  - To increase the inflation pressure: Switch on the compressor. To check the current inflation pressure setting, briefly switch off the compressor.
  - -To reduce the inflation pressure: Press the button (9) on the compressor.

#### NOTICE

Do not let the compressor run for more than 10 minutes, otherwise the device will overheat and may be damaged.

#### **i** Information

The pressure gauge may show higher than actual reading when the compressor is running. To get an accurate tire reading, the compressor needs to be turned off.

#### **A** CAUTION

If the inflation pressure is not maintained, drive the vehicle a second time, refer to Distributing the sealant. Then repeat steps 1 to 4.

Use of the TMK may be ineffectual for tire damage larger than approximately 0.16 in (4 mm).

We recommend that you contact an authorized HYUNDAI dealer if the tire cannot be made roadworthy with the Tire Mobility Kit.

#### **A** WARNING

The tire inflation pressure must be at least 220 kPa (32 psi). If it is not, do not continue driving. Call for road side service or towing.

### **A** CAUTION

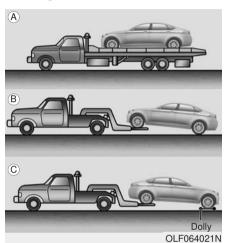
#### Tire pressure sensor

The sealant on the tire pressure sensor and wheel should be removed when you replace the tire with a new one and inspect the tire pressure sensors at an authorized dealer.

### **i** Information

When reinstalling the repaired or replaced tire and wheel on the vehicle, tighten the wheel lug nut to 11~13 kgf·m (79~94 lbf·ft).

# **TOWING**Towing service



If emergency towing is necessary, we recommend having it done by an authorized HYUNDAI dealer or a commercial tow-truck service.

Proper lifting and towing procedures are necessary to prevent damage to the vehicle. The use of wheel dollies or flatbed is recommended.

It is acceptable to tow the vehicle with the rear wheels on the ground (without dollies) and the front wheels off the ground.

If any of the loaded wheels or suspension components are damaged or the vehicle is being towed with the front wheels on the ground, use a towing dolly under the front wheels.

When being towed by a commercial tow truck and wheel dollies are not used, the front of the vehicle should always be lifted, not the rear.





#### **!** CAUTION

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- Do not tow the vehicle with the front wheels on the ground as this may cause damage to the vehicle.
- Do not tow with sling-type equipment. Use wheel lift or flatbed equipment.

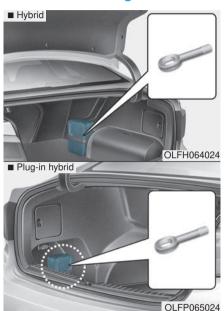
When towing your vehicle in an emergency without wheel dollies:

- 1. Place the Engine Start/Stop button in the ACC position.
- 2. Place the shift lever in N (Neutral).
- 3. Release the parking brake.

#### **!** CAUTION

Failure to place the transmission shift lever in N (Neutral) may cause internal damage to the transmission.

#### Removable towing hook



1. Open the trunk, and take the towing hooks out from the tool case.



- 2. Open the cover by pressing the lower part on the front bumper.
- Install the towing hook by rotating it in a clock-wise direction until it is securely installed.
- 4. After use, remove the towing hook and close the cover.

## **Emergency Towing** (if equipped)



If towing is necessary, we recommend you to have it done by an authorized HYUNDAI dealer or a commercial tow truck service. If towing service is not available in an emergency, your vehicle may be temporarily towed using a cable or chain secured to the emergency towing hook at the rear of the vehicle.

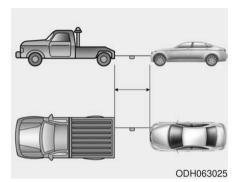
Use extreme caution when towing the vehicle with a cable or chain. A driver must be in the vehicle to steer it and operate the brakes.

Towing should be done only on a solid ground for a short distance and at a low speed.

Also, the wheels, axles, power train, steering and brakes must all be in good condition.

Always follow these emergency towing precautions:

- Place the Engine Start/Stop button in the ACC position so the steering wheel is not locked.
- Place the shift lever in N (Neutral).
- · Release the parking brake.
- Depress the brake pedal with more force than normal since you will have reduced braking performance.
- More steering effort will be required because the power steering system will be disabled.
- Use a vehicle heavier than your own to tow your vehicle.
- The drivers of both vehicles should communicate with each other frequently.
- Before emergency towing, check that the hook is not broken or damaged.
- Fasten the towing cable or chain securely to the hook.
- Do not jerk the hook. Apply steady and even force.



- Use a towing cable or chain less than 16 feet (5 m) long. Attach a white or red cloth (about 12 inches (30 cm) wide) in the middle of the cable or chain for easy visibility.
- Drive carefully so the towing cable or chain remains tight during towing.
- Before towing, check the automatic transmission for fluid leaks under your vehicle. If the automatic transmission fluid is leaking, flatbed equipment or a towing dolly must be used.

#### **A** CAUTION

To avoid damage to your vehicle and vehicle components when towing:

- Always pull straight ahead when using the towing hooks.
   Do not pull from the side or at a vertical angle.
- Do not use the towing hooks to pull a vehicle out of mud, sand or other conditions from which the vehicle cannot be driven out under its own power.
- Limit the vehicle speed to 10 mph (15 km/h) and drive less than 1 mile (1.5 km) when towing to avoid serious damage to the automatic transmission.

#### IF AN ACCIDENT OCCURS

#### **A** WARNING

- For your safety, do not touch high voltage cables, connectors and package modules. High voltage components are orange in color.
- Exposed cables or wires may be visible inside or outside of the vehicle. Never touch the wires or cables, because an electrical shock, an injury, or a death may occur.
- Any gas or electrolyte leakage from your vehicle is not only poisonous but also flammable. Upon witnessing one of those, open the windows, and remain a safe distance from the vehicle out of the road. Immediately contact an authorized Hyundai dealer and advise them that a hybrid vehicle is involved.
- If you need towing, refer to "Towing" in the previous pages. (Continued)

#### (Continued)

 When the vehicle is severely damaged, remain a safe distance of 50 feet (15 meter) or more between your vehicle and other vehicles/flammables.

#### **A** WARNING

#### If a fire occurs:

Upon witnessing any sparks, gases, flames, or fuel leakage of your vehicle, immediately call 911 or contact an authorized HYNDAI dealer. Also, advise them that a hybrid vehicle is involved.

#### **A** WARNING

When a submersion in water occurs:

When your vehicle is flooded in water, a high-voltage battery may cause shock or may catch on fire. Thus, turn the hybrid system OFF, take the key in your possession and move to a safe place. Never attempt physical contact with your flooded vehicle. Immediately contact an authorized HYUNDAI dealer and advise them that a hybrid vehicle is involved.

### Maintenance

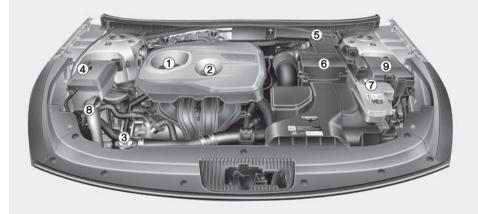
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# **ENGINE COMPARTMENT**



- 1. Engine oil filler cap
- 2. Engine oil dipstick
- 3. Radiator cap
- 4. Engine coolant reservoir
- 5. Brake fluid reservoir
- 6. Air cleaner
- 7. Inverter coolant reservoir
- 8. Windshield washer fluid reservoir
- 9. Fuse box

The actual engine compartment the vehicle may differ from the illustration.

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### 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.

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 Owner's Handbook & Warranty Information booklet.

Repairs and adjustments required as a result of improper maintenance or a lack of required maintenance are not covered.

# Owner maintenance precautions

Inadequate, incomplete or insufficient servicing may result in operational problems with your vehicle that could lead to vehicle damage, an accident, or personal injury. This chapter provides instructions only for the maintenance items that are easy to perform. Several procedures can be done only by an authorized HYUNDAI dealer with special tools.

Your vehicle should not be modified in any way. Such modifications may adversely affect the performance, safety or durability of your vehicle and may, in addition, violate conditions of the limited warranties covering the vehicle.

Certain modifications may also be in violation of regulations established by the U.S. Department of Transportation and other federal or state agencies.

### NOTICE

Improper owner maintenance during the warranty period may affect warranty coverage. For details, read the separate Owner's Handbook & Warranty Information booklet provided with the vehicle. If you're unsure about any service or maintenance procedure, have it done by an authorized HYUNDAI dealer.

### **OWNER MAINTENANCE**

## **A** WARNING

Performing maintenance work on a vehicle can be dangerous. If you lack sufficient knowledge and experience or the proper tools and equipment to do the work, have it done by an authorized HYUNDAI dealer. ALWAYS follow these precautions for performing maintenance work:

- Park your vehicle on level ground, move the shift lever into the P (Park, for automatic transmission vehicle) position, apply the parking brake, place the Engine Start/Stop button in the OFF position.
- Block the tires (front and back) to prevent the vehicle from moving.

Remove loose clothing or jewelry that can become entangled in moving parts.

(Continued)

### (Continued)

- If you must run the engine during maintenance, do so out doors or in an area with plenty of ventilation.
- Keep flames, sparks, or smoking materials away from the battery and fuel-related parts.
- When you open the engine hood, turn the hybrid system off. If not, It may result in death or serious injury because of the high voltage flow.

The following lists are vehicle checks and inspections that should be performed by the owner or an authorized HYUNDAI dealer at the frequencies indicated to help ensure safe, dependable operation of your vehicle.

Any adverse conditions should be brought to the attention of your dealer as soon as possible.

These Owner Maintenance vehicle checks are generally not covered by warranties and you may be charged for labor, parts and lubricants used.

### Owner maintenance schedule

### When you stop for fuel:

- · Check the engine oil level.
- Check coolant level in the engine coolant reservoir.
- Check the windshield washer fluid level.
- Check for low or under-inflated tires.

### **A** WARNING

Be careful when checking your engine coolant level when the engine is hot. This may result in coolant being blown out of the opening and cause serious burns and other injuries.

### While operating your vehicle:

- Note any changes in the sound of the exhaust or any smell of exhaust fumes in the 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 transmission occurs, check the transmission fluid level.
- Check the automatic transmission 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 engine coolant reservoir.
- Check the operation of all exterior lights, including the stoplights, turn signals and hazard warning flashers.
- Check the inflation pressures of all tires including the spare for tires that are worn, show uneven wear, or are damaged.
- · Check for loose wheel lug nuts.

# At least twice a year: (i.e., every Spring and Fall)

- Check radiator, heater and air conditioning hoses for leaks or damage.
- Check windshield washer spray and wiper operation. Clean wiper blades with clean cloth dampened with washer fluid.
- · Check headlamp alignment.
- Check muffler, exhaust pipes, shields and clamps.
- 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 automatic transmission linkage and controls.
- · Clean the battery 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 short distance driving.
- · Driving in dusty conditions or sandy areas.
- · Extensive use of brakes.
- Driving in areas where salt or other corrosive materials are used.
- · Driving on rough or muddy roads.
- · Driving in mountainous areas.
- Extended periods of idling or low speed operation.
- · Driving for a prolonged period in cold temperatures and/or extremely humid climates.
- More than 50% driving in heavy city traffic during hot weather above 90°F (32°C).

For additional information or assistance see your authorized HYUNDAI dealer.

#### **Normal Maintenance Schedule**

The following maintenance services must be performed to ensure good emission control and performance.

Keep receipts for all vehicle emission services to protect your warranty. Where both mileage and time are shown, the frequency of service is determined by whichever occurs first.

MAINTENANCE		Number of months or driving distance, whichever comes first														
INTERVALS	Months	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180
MAINTENANCE	Miles	7.5	15	22.5	30	37.5	45	52.5	60	67.5	75	83	90	98	105	113
ITEM	Km	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180
HSG belts *1	Inspect every 7,500 miles or 12 months, and replace every 67,500 miles or 48 months															
Engine oil and engine oil filter		R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
Fuel additives *2		Add fuel additives every 7,500 miles or 12months														
Air cleaner filter		I	- 1	I	R	I	I	I	R	I	I	I	R	I	ı	- 1
Spark plugs							Repla	ace ev	ery 9	7,500	miles					
Rotate tires						F	Rotate	tires	every	7,500	) miles	S				
Climate control air filter		Replace every 15,000 miles or 12 months														
Vacuum hose							I	- 1								
Engine coolant / Inverter coolan	t	At first, replace at 120,000 miles or 10 years : after that, replace every 30,000 miles or 24 months														

I : Inspect and if necessary, adjust, correct, clean or replace.

R: Replace or change.

\*1 : The drive belt should be replaced when cracks occur or tension is reduced excessively.

\*2 : If TOP TIER Detergent Gasoline is not available, one bottle of additive is recommended. Additives are available from your authorized HYUNDAI dealer along with information on how to use them. Do not mix other additives.

# **Normal Maintenance Schedule (CONT.)**

MAINTENANCE		Number of months or driving distance, whichever comes first														
INTERVALS	Months	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180
MAINTENANCE	Miles	7.5	15	22.5	30	37.5	45	52.5	60	67.5	75	83	90	98	105	113
ITEM	Km	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180
Battery condition		I	- 1	I	I	I	I	I	I	I	ı	I	ı	ı	I	I
Brake lines, hoses and connect	ions	I	I	I	I	I	I	I	I	I	ı	I	I	I	I	I
Brake hoses and lines		I	П	I	I	I	П	I	П	I	ı	I	I	I	I	I
Disc brakes and pads		I	I	I	I	I	I	I	I	I	ı	I	ı	ı	I	I
Steering gear rack, linkage and	boots	I	П	I	I	I	П	I	П	I	ı	I	I	I	I	I
Driveshaft and boots		I	I	I	I	I	I	I	I	I	ı	I	I	I	I	I
Suspension mounting bolts		I	I	I	I	I	I	I	I	I	I	I	I	I	I	I
Air conditioner refrigerant		I	П	I	I	I	П	I	I	I	ı	I	I	I	I	I
Air conditioner compressor		I	П	I	I	I	I	I	П	I	ı	I	I	I	I	I
Exhaust pipe and muffler			T.		- I		I		I		I		I		I	
Automatic transmission fluid		No check, No service required														
Vapor hose, fuel filler cap and fu	uel tank				ı				ı				I			

I : Inspect and if necessary, adjust, correct, clean or replace.

R : Replace or change.

### **Normal Maintenance Schedule (CONT.)**

MAINTENANCE	Number of months or driving distance, whichever comes first															
INTERVALS	Months	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180
MAINTENANCE	Miles	7.5	15	22.5	30	37.5	45	52.5	60	67.5	75	83	90	98	105	113
ITEM	Km	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180
Fuel tank air filter *3			П		I		I		I		I		ı		I	
Fuel filter *3			I		I		I		I		I		ı		ı	
Fuel lines, hoses and connectio	ns		I		I		I		I		I		ı		ı	
Parking brake			I		I		I		I		I		I		I	
Brake fluid			I		I		I		I		I		I		I	

I : Inspect and if necessary, adjust, correct, clean or replace.

R : Replace or change.

\*3 : Fuel filter & Fuel tank air filter are considered to be maintenance free but periodic inspection is recommended for this maintenance schedule depends on fuel quality. If there are some important safety matters like fuel flow restriction, surging, loss of power, hard starting problem, etc. replace the fuel filter immediately regardless of maintenance schedule and consult an authorized HYUNDAI dealer for details.

# **Maintenance Under Severe Usage Conditions**

The following items must be serviced more frequently on cars normally used under severe driving conditions. Refer to the chart below for the appropriate maintenance intervals.

R: Replace I: Inspect and, after inspection, clean, adjust, repair or replace if necessary

Maintenance item	Maintenance operation	Maintenance intervals	Driving condition			
HSG (Hybrid Starter&Generator) belt	R	Every 30,000 miles (48,000 km) or 24 months	C, D, E, L			
Tiod (Tybrid diarteradericiator) ben	I	I Every 3,750 miles (6,000 km) or 6 months				
Engine oil and filter	R	Every 3,750 miles (6,000 km) or 6 months	A, B, C, D, E, F, G, H, I, K			
Air cleaner filter	R	More frequently	C, E			
Spark plugs	R	More frequently	В, Н			
Climate control air filter (for evaporator and blower unit)	R	More frequently	C, E			
Front brake disc/pads, calipers	I	More frequently	C, D, G, H			

Maintenance item	Maintenance operation	Maintenance intervals	Driving condition			
Rear brake disc/pads	I	More frequently	C, D, G, F			
Steering gear box, linkage & boots/ lower arm ball joint, upper arm ball joint	I	More frequently	C, D, E, F, G, H, I			
Drive shafts and boots	I	Every 7,500 miles (12,000 km) or 6 months	C, D, E, F, G, H, I, J			
Automatic transmission fluid	R	Every 60,000 miles (96,000 km)	A, C, D, E, F, G, H, I, K			
Parking brake	I	More frequently	C, D, G, H			

# **Severe driving conditions**

- A-Repeatedly driving short distance of less than 5 miles (8 km) in normal temperature or less than 10 miles (16 km) in freezing temperature
- B-Extensive engine idling or low speed driving for long distances
- C-Driving on rough, dusty, muddy, unpaved, graveled or saltspread roads
- D-Driving in areas using salt or other corrosive materials or in very cold weather
- E-Driving in sandy areas

- F-Driving in heavy traffic area over 90°F (32°C)
- G-Driving on uphill, downhill, or mountain road
- H-Towing a Trailer, or using a camper, or roof rack
- I Driving as a patrol car, taxi, other commercial use or vehicle towing
- J Driving over 106 mph (170 km/h)
- K-Frequently driving in stop-and-go conditions

### **EXPLANATION OF SCHEDULED MAINTENANCE ITEMS**

# **Engine oil and filter**

The engine oil and filter should be changed at the intervals specified in the maintenance schedule. If the car is being driven in severe conditions, more frequent oil and filter changes are required.

# HSG (Hybrid starter & generator) belt

The HSG belt should be changed at the intervals specified in the maintenance schedule.

#### **Fuel filter**

A clogged filter can limit the speed at which the vehicle may be driven, damage the emission system and cause multiple issues such as hard starting. If an excessive amount of foreign matter accumulates in the fuel tank, the filter may require replacement more frequently. After installing a new filter, run the engine for several minutes, and check for leaks at the connections. Fuel filters should be installed by an authorized HYUNDAI dealer.

# Fuel lines, fuel hoses and connections

Check the fuel lines, fuel hoses and connections for leakage and damage. Have an authorized HYUNDAI dealer replace any damaged or leaking parts immediately.

### Vapor hose and fuel filler cap

The vapor hose and fuel filler cap should be inspected at those intervals specified in the maintenance schedule. Make sure a new vapor hose or fuel filler cap is correctly replaced.

### Air cleaner filter

A genuine HYUNDAI air cleaner filter is recommended when the filter is replaced.

### Spark plugs

Make sure to install new spark plugs of the correct heat range.

### **Cooling system**

Check cooling system components, such as radiator, coolant reservoir, hoses and connections for leakage and damage. Replace any damaged parts.

# Engine coolant/Inverter coolant

The coolant should be changed at the intervals specified in the maintenance schedule.

### **Automatic transmission fluid**

Automatic transmission fluid should not be checked under normal usage conditions. But in severe conditions, the fluid should be changed at an authorized HYUNDAI dealer in accordance to the scheduled maintenance at the beginning of this chapter.

### NOTICE

Automatic transmission fluid color is basically red.

As the vehicle is driven, the automatic transmission fluid will begin to look darker. This is a normal condition and you should not judge the need to replace the fluid based upon the changed color.

# **!** CAUTION

The use of a non-specified fluid could result in transmission malfunction and failure. Use only the specified automatic transmission fluid (refer to "Recommended Lubricants and Capacities" in chapter 8).

#### **Brake hoses and lines**

Visually check for proper installation, chafing, cracks, deterioration and any leakage. Replace any deteriorated or damaged parts immediately.

#### **Brake fluid**

Check brake fluid level in the brake fluid reservoir. The level should be between the MIN and the MAX marks on the side of the reservoir. Use only hydraulic brake fluid conforming to DOT 3 or DOT 4 specification.

# Parking brake

Inspect the parking brake system including the parking brake pedal and cables.

# Brake discs, pads, calipers and rotors

Check the pads for excessive wear, discs for run out and wear, and calipers for fluid leakage.

For more information on checking the pads or lining wear limit, refer to the HYUNDAI web site.

(<u>http://service.hyundai-motor.com</u>)

# **Exhaust pipe and muffler**

Visually inspect the exhaust pipes, muffler and hangers for cracks, deterioration, or damage. Start the engine and listen carefully for any exhaust gas leakage. Tighten connections or replace parts as necessary.

# 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 hybrid system 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.

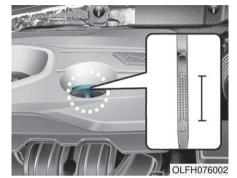
# Air conditioning refrigerant

Check the air conditioning lines and connections for leakage and damage.

### **ENGINE OIL**

### Checking the engine oil level

- 1. Follow all of the oil manufacturer's precautions.
- Be sure the vehicle is on level ground in P (Park) with the parking brake set and the wheels blocked.
- 3. Turn the engine on and allow the engine to reach normal operating temperature.
- 4. Turn the hybrid system off and wait about five minutes for the oil to return to the oil pan.
- 5. Pull the dipstick out, wipe it clean, and re-insert it fully.

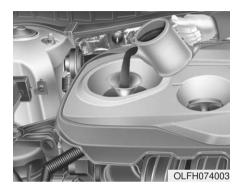


- Pull the dipstick out again and check the level. The level should be between F and L.
- 7. If it is near or at L, add enough oil to bring the level to F.

### NOTICE

To prevent damage to your engine:

- Do not overfill with engine oil. Add oil in small quantities and recheck level to ensure engine is not overfilled.
- Do not spill engine oil when adding or changing engine oil. Use a funnel to help prevent oil from being spilled on engine components. Wipe off spilled oil immediately



### NOTICE

Use only the specified engine oil (refer to "Recommended Lubricants and Capacities" in chapter 8).

# Checking the engine oil and filter



Have engine oil and filter changed by an authorized HYUNDAI dealer according to the Maintenance Schedule at the beginning of this chapter.

### **A** WARNING

# CALIFORNIA PROPOSITION 65 WARNING

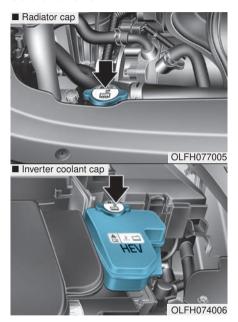
Engine oil contains chemicals known to the State of California to cause cancer, birth defects and reproductive harm. Used engine oil may cause irritation or cancer of the skin if left in contact with the skin for prolonged periods of time. Always protect your skin by washing your hands thoroughly with soap and warm water as soon as possible after handling used oil.

### **ENGINE COOLANT/INVERTER COOLANT**

The high-pressure cooling system has a reservoir filled with year-round antifreeze coolant. The reservoir is filled at the factory.

Check the antifreeze protection and coolant level at least once a year, at the beginning of the winter season and before traveling to a colder climate.

# Checking the engine/inverter coolant level



## **A** WARNING



Never remove the radiator cap and/or inverter coolant cap or the drain plug while the engine and

radiator are hot. Hot coolant and steam may blow out under pressure, causing serious injury.

Turn the hybrid system off and wait until the engine cools down. Use extreme care when removing the radiator cap and/or inverter coolant cap. Wrap a thick towel around it. and turn it counterclockwise slowly to the first stop. Step back while the pressure is released from the cooling system. When you are sure all the pressure has been released. press down on the cap, using a thick towel, and continue turning counterclockwise to remove it.

# *i* Information

The engine coolant and/or inverter coolant level is influenced by the hybrid system temperature. Before checking or refilling the engine coolant and/or inverter coolant, turn the hybrid vehicle off.

## **A** WARNING

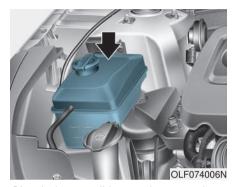


The electric motor for the cooling fan may continue to operate or start up when the engine is not running

and can cause serious injury. Keep hands, clothing and tools away from the rotating fan blades of the cooling fan.

The electric motor for the cooling fan is controlled by engine coolant temperature, refrigerant pressure and vehicle speed. As the engine coolant temperature decreases, the electric motor will automatically shut off. This is a normal condition. If your vehicle is equipped with GDI, the electric motor for the cooling fan may begin to operate at any time and continue to operate until you disconnect the negative battery cable.

### Engine 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 F and the L marks on the side of the coolant reservoir when the engine is cool.

If the coolant level is low, add enough distilled (deionized) water to bring the level to the F mark, but do not overfill. If frequent additions are required, See an authorized HYUNDAI dealer for a cooling system inspection.

#### Inverter 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 the MIN marks on the side of the coolant reservoir when the engine is cool.

If the coolant level is low, add enough distilled (deionized) water to bring the level to the MAX mark, but do not overfill. If frequent additions are required, we recommend that you see an authorized HYUNDAI dealer for a cooling system inspection.

### 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 improper coolant mixture can result in severe malfunction or engine/ hybrid system damage.
- The engine in your vehicle has aluminum engine parts and must be protected by an phosphate-based ethylene glycol coolant to prevent corrosion and freezing.
- Do not use alcohol or methanol coolant or mix them with the specified coolant.
- Do not use a solution that contains more than 60% antifreeze or less than 35% antifreeze, which would reduce the effectiveness of the solution.

For mixing percentage, refer to the following table:

Ambient Temperature	Mixture Percentage (volume)							
remperature	Antifreeze	Water						
5°F (-15°C)	35	65						
-13°F (-25°C)	40	60						
-31°F (-35°C)	50	50						
-49°F (-45°C)	60	40						

# **i** Information

If in doubt about the mix ratio, a 50% water and 50% antifreeze mix is the easiest to mix together as it will be the same quantity of each. It is suitable to use for most temperature ranges of -31°F and higher.

# **Changing engine coolant**

Have coolant changed by an authorized HYUNDAI dealer according to the Maintenance Schedule at the beginning of this chapter.

### **A WARNING**

Do not use engine coolant or antifreeze in the washer fluid reservoir.

Engine coolant can severely obscure visibility when sprayed on the windshield and may cause loss of vehicle control resulting in an accident.

Engine coolant may also cause damage to paint and body trim.

#### NOTICE

To prevent damage to engine parts, put a thick towel around the radiator cap before refilling the coolant to prevent the coolant from overflowing into engine parts, such as the generator.

### HYBRID STARTER & GENERATOR (HSG) BELT

# Checking the hybrid starter & generator (HSG) belt

Have the hybrid starter & generator (HSG) belt inspected or replaced according to the Maintenance Schedule in this chapter by an authorized HYUNDAI dealer.

# **A** CAUTION

When the HSG belt is worn out or damaged, replace the belt.

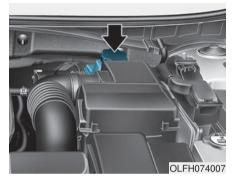
Otherwise, it may cause engine overheating or battery discharge.

# **A** WARNING

- Turn the vehicle off while you inspect the engine or hybrid starter & generator(HSG) belt. Otherwise it may result in serious injury.
- Keep hands, clothing etc. away from the hybrid starter & generator (HSG) belt.

### **BRAKE FLUID**

### Checking the brake fluid level



Check the fluid level in the reservoir periodically. The fluid level should be between MAX and MIN marks on the side of the reservoir.

Before removing the reservoir cap and adding brake fluid, clean the area around the reservoir cap thoroughly to prevent brake fluid contamination. If the level is low, add the specified brake fluid to the MAX level. The level will fall with accumulated mileage. This is a normal condition associated with the wear of the brake linings. If the fluid level is excessively low, have the brake system checked by an authorized HYUNDAI dealer.

# **A** WARNING

If the brake system requires frequent additions of fluid this could indicate a leak in the brake system. Have the vehicle inspected by an authorized HYUNDAI dealer.

# **A** WARNING

Do not allow brake fluid to come in contact with your eyes. If brake fluid comes in contact with your eyes, flush your eyes with clean water for at least 15 minutes and get immediate medical attention.

### NOTICE

- Do not allow brake fluid to contact the vehicle's body paint, as paint damage will result.
- Brake fluid, which has been exposed to open air for an extended time should NEVER be used as its quality cannot be guaranteed. It should be disposed of properly.
- Do not use the wrong kind of brake fluid. A few drops of mineral based oil, such as engine oil, in your brake system can damage brake system parts.

# **i** Information

Use only the specified brake fluid (refer to "Recommended Lubricants and Capacities" in chapter 8).

### **WASHER FLUID**

# Checking the washer fluid level



Check the fluid level in the washer fluid reservoir and add fluid if necessary. Plain water may be used if washer fluid is not available. However, use washer solvent with antifreeze characteristics in cold climates to prevent freezing.

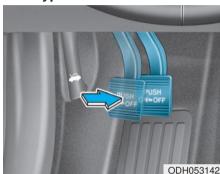
### **A** WARNING

To prevent serious injury or death, take the following safety precautions when using washer fluid:

- Do not use engine coolant or antifreeze in the washer fluid reservoir.
- Engine 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 poisonous to humans and animals.
- Keep washer fluid away from children and animals.

# PARKING BRAKE Checking the parking brake

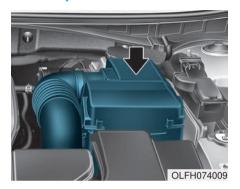
# Foot type



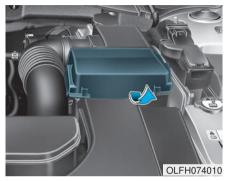
Check whether the stroke is within specification when the parking brake pedal is depressed with 44 lb (20 kg, 196 N) of force. Also, the parking brake alone should securely hold the vehicle on a fairly steep grade. If the stroke is more or less than specified, have the parking brake adjusted by an authorized HYUNDAI dealer.

Stroke: 3 notch

# **AIR CLEANER**Filter replacement



The air cleaner filter can be cleaned for inspection using compressed air. Do not attempt to wash or to rinse it, as water will damage the filter. If soiled, the air cleaner filter must be replaced.



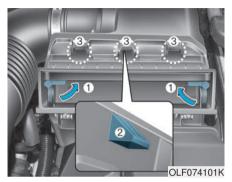
- 1. Remove the air cleaner filter cover.
- 2. Wipe the inside of the air cleaner.



Pull down the lever to the UNLOCK position.



4. Replace the air cleaner filter.



- 5. Pull up the lever (1) to the LOCK position.
- 6. Install the cover and make sure the inner hooks bosses (2) are hung on the hooks (3).
- 7. Check if the cover is firmly installed.

# **i** Information

If the vehicle is operated in extremely dusty or sandy areas, replace the element more often than the usual recommended intervals (refer to "Maintenance Under Severe Usage Conditions" in this chapter).

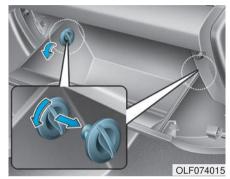
### NOTICE

- Do not drive with the air cleaner filter removed. This will result in excessive engine wear.
- When removing the air cleaner filter, be careful that dust or dirt does not enter the air intake, or damage may result.
- Use HYUNDAI genuine parts, use of non-genuine parts could damage the air flow sensor.

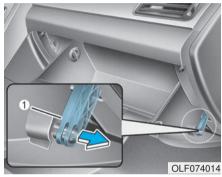
### **CLIMATE CONTROL AIR FILTER**

### **Filter inspection**

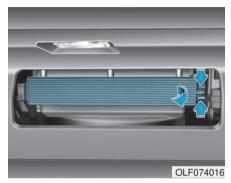
The climate control air filter should be replaced according to the Maintenance Schedule. If the vehicle is operated in severely air-polluted cities or on dusty rough roads for a long period, it should be inspected more frequently and replaced earlier. When you replace the climate control air filter, replace it performing the following procedure, and be careful to avoid damaging other components.



1. With the glove box open, remove the stoppers on both sides to allow the glove box to hang freely on the hinges.



2. Remove the support rod (1).



3. Remove the climate control air filter case by pulling out the right side of the cover.



- 4. Replace the climate control air filter.
- 5. Reassemble in the reverse order of disassembly.

### NOTICE

Install a new climate control air filter in the correct direction with the arrow symbol  $(\downarrow)$  facing downwards. Otherwise, the climate control effects may decrease, possibly with a noise.

### WIPER BLADES

# **Blade inspection**

Contamination of either the windshield or the wiper blades with foreign matter can reduce the effectiveness of the windshield wipers. Common sources of contamination are insects, tree sap, and hot wax treatments used by some commercial car washes. If the blades are not wiping properly, clean both the window and the blades with a clean cloth dampened with washer fluid.

### NOTICE

To prevent damage to the wiper blades, arms or other components, do not:

- Use gasoline, kerosene, paint thinner, or other solvents on or near them.
- Attempt to move the wipers manually.
- Use non-specified wiper blades.

# **i** Information

Commercial hot waxes applied by automatic car washes have been known to make the windshield difficult to clean.

## **Blade replacement**

When the wipers no longer clean adequately, the blades may be worn or cracked, and require replacement.

### NOTICE

To prevent damage to the wiper arms or other components, do not attempt to move the wipers manually.

### NOTICE

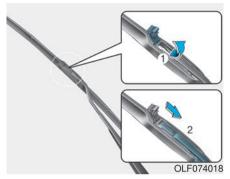
The use of a non-specified wiper blade could result in wiper malfunction and failure.



1. Raise the wiper arm.

# NOTICE

Do not allow the wiper arm to fall against the windshield, since it may chip or crack the windshield.



2. Lift the wiper blade clip. Then push down the blade body.



- 3. Install the new blade assembly in the reverse order of removal.
- 4. Return the wiper arm on the windshield.

#### **BATTERY**

## **A** 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.

(Continued)

### (Continued)

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 engine running or when the Engine Start/Stop button is in the ON position.

### **A** WARNING

# CALIFORNIA PROPOSITION 65 WARNING

Battery posts, terminals, and related accessories contain lead and lead compounds, chemicals known to the State of California to cause cancer, birth defects and reproductive harm. Batteries also contain other chemicals known to the State of California to cause cancer. Wash hands after handling.

### NOTICE

- 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.

### 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 acid from the battery immediately with a solution of water and baking soda.

### **Battery recharging**

### **A** WARNING

Always follow these instructions when recharging your vehicle's battery to avoid the risk of SERI-OUS INJURY or DEATH from explosions or acid burns:

- Before performing maintenance or recharging the battery, turn off all accessories and place the Engine Start/Stop button to the OFF position.
- 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.

(Continued)

### (Continued)

- 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.
- Always use a genuine HYUNDAI approved battery when you replace the battery.

### By jump starting

After a jump start from a good battery, drive the vehicle for 20-30 minutes before it is shutoff. The vehicle may not restart if you shut it off before the battery had a chance to adequately recharge. See "Jump Starting" in chapter 6 for more information on jump starting procedures.

# **i** Information



An inappropriately disposed battery can be harmful to the environment and human health.

Dispose the battery according to your local law(s) or regulation.

#### **Reset features**

Some items need to be reset after the battery has been discharged or the battery has been disconnected. See chapter 3 for:

- · Power Windows
- Trip Computer
- Climate Control System
- Clock
- Audio System
- Sunroof

### TIRES AND WHEELS

# **A** WARNING

Tire failure may cause loss of vehicle control resulting in an accident. To reduce risk of SERIOUS INJURY or DEATH, take the following precautions:

- Inspect your tires monthly for proper inflation as well as wear and damage.
- The recommended cold tire pressure for your vehicle can be found in this manual and on the tire label located on the driver's side center pillar. Always use a tire pressure gauge to measure tire pressure. Tires with too much or too little pressure wear unevenly causing poor handling.
- Check the pressure of the spare every time you check the pressure of the other tires on your vehicle.

(Continued)

### (Continued)

- Replace tires that are worn, show uneven wear, or are damaged. Worn tires can cause loss of braking effectiveness, steering) control, or traction.
- ALWAYS replace tires with the same size as each tire that was originally supplied with this vehicle. Using tires and wheels other than the recommended sizes could cause unusual handling characteristics, poor vehicle control, or negatively affect your vehicle's Anti-Lock Brake System (ABS) resulting in a serious accident.

#### Tire care

For proper maintenance, safety, and maximum fuel economy, you must always maintain recommended tire inflation pressures and stay within the load limits and weight distribution recommended for your vehicle.



All specifications (sizes and pressures) can be found on a label attached to the driver's side center pillar.

# Recommended cold tire inflation pressures

All tire pressures (including the spare) should be checked when the tires are cold. "Cold tires" means the vehicle has not been driven for at least three hours or driven less than one mile (1.6 km).

Warm tires normally exceed recommended cold tire pressures by 4 to 6 psi (28 to 41 kPa). Do not release air from warm tires to adjust the pressure or the tires will be under-inflated. For recommended inflation pressure, refer to "Tire and Wheels" in chapter 8.

# **A 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.

# **A** CAUTION

- Under-inflation results in excessive wear, poor handling and reduced fuel economy. Wheel deformation is also possible. Keep your tire pressures at the proper levels. If a tire frequently needs refilling, have it checked by an authorized HYUNDAI dealer.
- Over-inflation produces a harsh ride, excessive wear at the center of the tire tread, and a greater possibility of damage from road hazards.

# **Check tire inflation pressure**

Check your tires, 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.

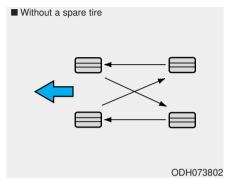
If you overfill the tire, release air by pushing on the metal stem in the center of the tire valve. Recheck the tire pressure with the tire gauge. Be sure to put the valve caps back on the valve stems. Without the valve cap, dirt or moisture could get into the valve core and cause air leakage. If a valve 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 7,500 miles (12,000 km) or sooner if irregular wear develops.

During rotation, check the tires for correct balance.

When rotating tires, check for uneven wear and damage. Abnormal wear is usually caused by incorrect tire pressure, improper wheel alignment, out-of-balance wheels, severe braking or severe cornering. Look for bumps or bulges in the tread or side of tire. Replace the tire if you find either of these conditions. Replace the tire if fabric or cord is visible. After rotation, be sure to bring the front and rear tire pressures to specification and check lug nut tightness (proper torque is 79-94 lb.ft [11-13 kg.m]).



Disc brake pads should be inspected for wear whenever tires are rotated.

# *i* Information

The outside and inside of the unsymmetrical tire is distinguishable. When installing an unsymmetrical tire, be sure to install the side marked "outside" face the outside. If the side marked "inside" is installed on the outside, it will have a bad effect on vehicle performance.

# **A** 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

Improper wheel weights can damage your vehicle's aluminum wheels. Use only approved wheel weights.

## Tire replacement



If the tire is worn evenly, a tread wear indicator will appear as a solid band across the tread. This shows there is less than 1/16 inch (1.6 mm) of tread left on the tire. Replace the tire when this happens.

Do not wait for the band to appear across the entire tread before replacing the tire.

#### **A** 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.

(Continued)

#### (Continued)

- When replacing tires (or wheels), it is recommended to replace the two front or two rear tires (or wheels) as a pair. Replacing just one tire can seriously affect your vehicle's handling.
- Tires degrade over time, even when they are not being used. Regardless of the remaining tread, HYUNDAI recommends that tires be replaced after six (6) years of normal service.
- Heat caused by hot climates or frequent high loading conditions can accelerate the aging process. Failure to follow this warning may cause sudden tire failure, which could lead to a loss of vehicle control resulting in an accident.

### Compact spare tire replacement

A compact spare tire has a shorter tread life than a regular size tire. Replace it when you can see the tread wear indicator bars on the tire. The replacement compact spare tire should be the same size and design tire as the one provided with your new vehicle and should be mounted on the same compact spare tire wheel. The compact spare tire is not designed to be mounted on a regular size wheel, and the compact spare tire wheel is not designed for mounting a regular size tire.

#### **A** WARNING

The original tire should be repaired or replaced as soon as possible to avoid failure of the spare and loss of vehicle control resulting in an accident. The compact spare tire is for emergency use only. Do not operate your vehicle over 50 mph (80 km/h) 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.

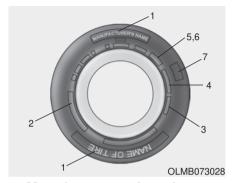
#### Tire maintenance

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.)

#### 205/65R16 95H

205 - Tire width in millimeters.

- 65 Aspect ratio. The tire's section height as a percentage of its width.
- R Tire construction code (Radial).
- 16 Rim diameter in inches.
- 95 Load Index, a numerical code associated with the maximum load the tire can carry.
- H Speed Rating Symbol. See the speed rating chart in this section for additional information.

#### Wheel size designation

Wheels are also marked with important information that you need if you ever have to replace one. The following explains what the letters and numbers in the wheel size designation mean.

Example wheel size designation:

#### 6.5JX16

6.5 - Rim width in inches.

J - Rim contour designation.

16 - Rim diameter in inches.

### Tire speed ratings

The chart below lists many of the different speed ratings currently being used for passenger car tires. The speed rating is part of the tire size designation on the sidewall of the tire. This symbol corresponds to that tire's designed maximum safe operating speed.

Speed Rating Symbol	Maximum Speed	
S	112 mph (180 km/h)	
Т	118 mph (190 km/h)	
Н	130 mph (210 km/h)	
V	149 mph (240 km/h)	
Z	Above 149 mph (240 km/h)	

## 3. Checking tire life (TIN : Tire Identification Number)

Any tires that are over six years old, based on the manufacturing date, (including the spare tire) should be replaced by new ones. You can find the manufacturing date on the tire sidewall (possibly on the inside of the wheel), displaying the DOT Code. The DOT Code is a series of numbers on a tire consisting of numbers and English letters. The manufacturing date is designated by the last four digits (characters) of the DOT code.

#### DOT: XXXX XXXX OOOO

The front part of the DOT means a plant code number, tire size and tread pattern and the last four numbers indicate week and year manufactured.

#### For example:

DOT XXXX XXXX 1618 represents that the tire was produced in the 16th week of 2018.

## 4. Tire ply composition and material

The number of layers or plies of rubber-coated fabric in the tire. Tire manufacturers also must indicate the materials in the tire, which include steel, nylon, polyester, and others. The letter "R" means radial ply construction; the letter "D" means diagonal or bias ply construction; and the letter "B" means belted-bias ply construction.

## 5. Maximum permissible inflation pressure

This number is the greatest amount of air pressure that should be put in the tire. Do not exceed the maximum permissible inflation pressure. Refer to the Tire and Loading Information label for recommended inflation pressure.

#### 6. Maximum load rating

This number indicates the maximum load in kilograms and pounds that can be carried by the tire. When replacing the tires on the vehicle, always use a tire that has the same load rating as the factory installed tire.

#### 7. Uniform tire quality grading

Quality grades can be found where applicable on the tire sidewall between tread shoulder and maximum section width.

For example:

TREAD wear 200 TRACTION AA TEMPERATURE A

#### Tread wear

The tread wear grade is a comparative rating based on the wear rate of the tire when tested under controlled conditions on a specified government test course. For example, a tire graded 150 would wear one-and-a-half times (1½) as well on the government course as a tire graded 100.

The relative performance of tires depends upon the actual conditions of their use, however, and may depart significantly from the norm due to variations in driving habits, service practices and differences in road characteristics and climate.

These grades are molded on the sidewalls of passenger vehicle tires. The tires available as standard or optional equipment on your vehicle may vary with respect to grade.

#### Traction - AA, A, B & C

The traction grades, from highest to lowest, are AA, A, B and C. Those grades represent the tire's ability to stop on wet pavement as measured under controlled conditions on specified government test surfaces of asphalt and concrete. A tire marked C may have poor traction performance.

#### **A** WARNING

The traction grade assigned to this tire is based on straightahead braking traction tests, and does not include acceleration, cornering, hydroplaning, or peak traction characteristics.

### Temperature - A, B & C

The temperature grades are A (the highest), B and C representing the tire's resistance to the generation of heat and its ability to dissipate heat when tested under controlled conditions on a specified indoor laboratory test wheel.

Sustained high temperature can cause the material of the tire to degenerate and reduce tire life, and excessive temperature can lead to sudden tire failure. Grade C responds to a level of performance which all passenger car tires must meet under the Federal Motor Vehicle Safety Standard No. 109. Grades B and A represent higher levels of performance on the laboratory test wheel than the minimum required by law.

### **A** WARNING

The temperature grade for this tire is established for a tire that is properly inflated and not overloaded. Excessive speed, under-inflation, over-inflation, or excessive loading, either separately or in combination, can cause heat build-up and possible sudden tire failure. This may cause loss of vehicle control resulting in an accident.

## Tire terminology and definitions

#### Air Pressure

The amount of air inside the tire pressing outward on the tire. Air pressure is expressed in pounds per square inch (psi) or kilopascal (kPa).

## **Accessory Weight**

This means the combined weight of optional accessories. Some examples of optional accessories are automatic transmission, power seats, and air conditioning.

### Aspect Ratio

The relationship of a tire's height to its width.

#### Belt

A rubber coated layer of cords that is located between the plies and the tread. Cords may be made from steel or other reinforcing materials.

#### Bead

The tire bead contains steel wires wrapped by steel cords that hold the tire onto the rim.

### Bias Ply Tire

A pneumatic tire in which the plies are laid at alternate angles less than 90 degrees to the centerline of the tread.

#### Cold Tire Pressure

The amount of air pressure in a tire, measured in pounds per square inch (psi) or kilopascals (kPa) before a tire has built up heat from driving.

### **Curb Weight**

This means the weight of a motor vehicle with standard and optional equipment including the maximum capacity of fuel, oil and coolant, but without passengers and cargo.

#### **DOT Markings**

A code molded into the sidewall of a tire signifying that the tire is in compliance with the U.S. Department of Transportation motor vehicle safety standards. The DOT code includes the Tire Identification Number (TIN), an alphanumeric designator which can also identify the tire manufacturer, production plant, brand and date of production.

#### **GVWR**

Gross Vehicle Weight Rating

#### **GAWR FRT**

Gross Axle Weight Rating for the Front Axle.

#### **GAWR RR**

Gross Axle Weight Rating for the Rear axle.

#### Intended Outboard Sidewall

The side of an asymmetrical tire, that must always face outward when mounted on a vehicle.

### Kilopascal (kPa)

The metric unit for air pressure.

### Light truck (LT) tire

A tire designated by its manufacturer as primarily intended for use on light-weight trucks or multipurpose passenger vehicles.

### Load ratings

The maximum load that a tire is rated to carry for a given inflation pressure.

#### Load Index

An assigned number ranging from 1 to 279 that corresponds to the load carrying capacity of a tire.

#### Maximum Inflation Pressure

The maximum air pressure to which a cold tire may be inflated. The maximum air pressure is molded onto the sidewall.

### Maximum Load Rating

The load rating for a tire at the maximum permissible inflation pressure for that tire.

## Maximum Loaded Vehicle Weight

The sum of curb weight; accessory weight; vehicle capacity weight; and production options weight.

### Normal Occupant Weight

The number of occupants a vehicle is designed to seat multiplied by 150 pounds (68 kg).

### Occupant Distribution

Designated seating positions.

## **Outward Facing Sidewall**

An asymmetrical tire has a particular side that faces outward when mounted on a vehicle. The outward facing sidewall bears white lettering or bears manufacturer, brand, and/or model name molding that is higher or deeper than the same moldings on the inner facing sidewall.

## Passenger (P-Metric) tire

A tire used on passenger cars and some light duty trucks and multipurpose vehicles.

### Ply

A layer of rubber-coated parallel cords

#### Pneumatic tire

A mechanical device made of rubber, chemicals, fabric and steel or other materials, that, when mounted on an automotive wheel, provides the traction and contains the gas or fluid that sustains the load.

## Production options weight

The combined weight of installed regular production options weighing over 5 lb. (2.3 kg) in excess of the standard items which they replace, not previously considered in curb weight or accessory weight, including heavy duty brakes, ride levelers, roof rack, heavy duty battery, and special trim.

## Recommended Inflation Pressure

Vehicle manufacturer's recommended tire inflation pressure as shown on the tire placard.

#### Radial Ply Tire

A pneumatic tire in which the ply cords that extend to the beads are laid at 90 degrees to the centerline of the tread.

#### Rim

A metal support for a tire and upon which the tire beads are seated.

#### Sidewall

The portion of a tire between the tread and the bead.

#### Speed Rating

An alphanumeric code assigned to a tire indicating the maximum speed at which a tire can operate.

#### Traction

The friction between the tire and the road surface. The amount of grip provided.

#### Tread

The portion of a tire that comes into contact with the road.

#### Treadwear Indicators

Narrow bands, sometimes called "wear bars", that show across the tread of a tire when only 1/16 inch of tread remains.

#### **UTQGS**

Uniform Tire Quality Grading Standards is a tire information system that provides consumers with ratings for a tire's traction, temperature and treadwear. Ratings are determined by tire manufacturers using government testing procedures. The ratings are molded into the sidewall of the tire

#### Vehicle Capacity Weight

The number of designated seating positions multiplied by 150 lbs. (68 kg) plus the rated cargo and luggage load.

## Vehicle Maximum Load on the Tire

Load on an individual tire due to curb and accessory weight plus maximum occupant and cargo weight.

#### Vehicle Normal Load on the Tire

Load on an individual tire that is determined by distributing to each axle its share of the curb weight, accessory weight, and normal occupant weight and dividing by 2.

#### Vehicle Placard

A label permanently attached to a vehicle showing the original equipment tire size and recommended inflation pressure.

#### All season tires

HYUNDAI specifies all season tires on some models to provide good performance for use all year round, including snowy and icy road conditions. All season tires are identified by ALL SEASON and/or M+S (Mud and Snow) on the tire sidewall. Snow tires have better snow traction than all season tires and may be more appropriate in some areas.

#### **Summer tires**

HYUNDAI specifies summer tires on some models to provide superior performance on dry roads. Summer tire performance is substantially reduced in snow and ice. Summer tires do not have the tire traction rating M+S (Mud and Snow) on the tire side wall. If you plan to operate your vehicle in snowy or icy conditions, HYUNDAI recommends the use of snow tires or all season tires on all four wheels.

#### **Snow tires**

If you equip your car with snow tires. they should be the same size and have the same load capacity as the original tires. Snow tires should be installed on all four wheels: otherwise, poor handling may result. Snow tires should carry 4 psi (28 kPa) more air pressure than the pressure recommended for the standard tires on the tire label on the driver's side of the center pillar, or up to the maximum pressure shown on the tire sidewall, whichever is less. Do not drive faster than 75 mph (120 km/h) when your vehicle is equipped with snow tires.

### **Radial-ply tires**

Radial-ply tires provide improved tread life, road hazard resistance and smoother high speed ride. The radial-ply tires used on this vehicle are of belted construction, and are selected to complement the ride and handling characteristics of your vehicle. Radial-ply tires have the same load carrying capacity, as bias-ply or bias belted tires of the same size, and use the same recommended inflation pressure. Mixing of radial-ply tires with bias-ply or bias belted tires is not recommended. Any combinations of radial-ply and bias-ply or bias belted tires when used on the same vehicle will seriously deteriorate vehicle handling. The best rule to follow is: Identical pairs of radial-ply tires should always be used as a set for the front tires and a set for the rear tires.

Longer wearing tires can be more susceptible to irregular tread wear. It is very important to follow the tire rotation interval in this chapter to achieve the tread life potential of these tires. Cuts and punctures in radial-ply tires are repairable only in the tread area, because of sidewall flexing. Consult your tire dealer for radial-ply tire repairs.

#### **A** WARNING

Do not mix bias ply and radial ply tires under any circumstances. This may cause unusual handling characteristics that may cause loss of vehicle control resulting in an accident.

### Low aspect ratio tires

Low aspect ratio tires, the aspect ratio is lower than 50, are provided for sporty looks.

Because low aspect ratio tires are optimized for handling and braking, their sidewall is a little stiffer than a standard tire. Also low aspect ratio tires tend to be wider and consequently have a greater contact patch with the road surface. In some instances they may generate more road noise compared with standard tires.

## **A** CAUTION

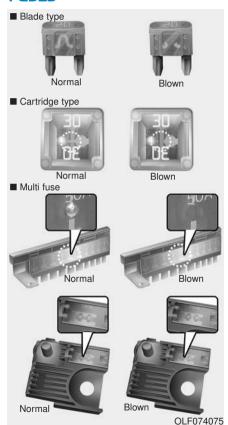
Because the sidewall of a low aspect ratio tire is shorter than a standard tire, the rim of the wheel and the tire itself is more easily susceptible to damage. Use caution when driving and follow the guidelines below to help minimize damage to the wheel and tire:

- When driving on a rough road or off road, drive cautiously because tires and wheels may be damaged. And after driving, inspect tires and wheels.
- When passing over a pothole, speed bump, manhole, or curb stone, drive slowly so that the tires and wheels are not damaged.
- If the tire is subjected to a severe impact, have the tire and wheel inspected by an authorized HYUNDAI dealer.
- Inspect the tire condition and pressure every 1,800 miles (3,000km).

## **A** CAUTION

- It is not easy to recognize tire damage with your own eyes. But if there is the slightest hint of tire damage, have the tire checked or replaced because the tire damage may cause air leakage from the tire.
- If the tire is damaged by driving on a rough road, off road, pothole, manhole, or curb stone, it will not be covered by the warranty.

#### **FUSES**



A vehicle's electrical system is protected from electrical overload damage by fuses.

This vehicle has 2 (or 3) fuse panels, one located in the driver's side panel bolster, the other in the engine compartment near the battery.

If any of your vehicle's lights, accessories, or controls do not work, check the appropriate circuit fuse. If a fuse has blown, the element inside the fuse will be melted or broken.

If the electrical system does not work, first check the driver's side fuse panel. Before replacing a blown fuse, turn the engine and all switches off, and then disconnect the negative battery cable. Always replace a blown fuse with one of the same rating.

If the replacement fuse blows, this indicates an electrical problem. Avoid using the system involved and immediately consult an authorized HYUNDAI dealer.

## **i** Information

Three kinds of fuses are used: blade type for lower amperage rating, cartridge type, and fusible link for higher amperage ratings.

#### **A** WARNING

NEVER replace a fuse with anything but another fuse of the same rating.

- A higher capacity fuse could cause damage and possibly cause a fire.
- Do not install a wire or aluminum foil instead of the proper fuse - even as a temporary repair. It may cause extensive wiring damage and possibly a fire.

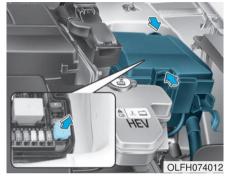
### **!** CAUTION

Do not use a screwdriver or any other metal object to remove fuses because it may cause a short circuit and damage the system.

## Instrument panel fuse replacement



- 1. Turn the hybrid system off.
- 2. Turn all other switches OFF.
- 3. Open the fuse panel cover.
- 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 engine compartment fuses panel.
- Check the removed fuse; replace it if it is blown. Spare fuses are provided in the instrument panel fuse panels (or in the engine compartment fuse panel).
- Push in a new fuse of the same rating, and make sure it fits tightly in the clips. If it fits loosely, consult an authorized HYUNDAI dealer.

In an emergency, if you do not have a spare fuse, use a fuse of the same rating from a circuit you may not need for operating the vehicle, such as the cigarette lighter fuse.

If the headlamps or other electrical components do not work and the fuses are OK, check the fuse panel in the engine compartment. If a fuse is blown, it must be replaced with the same rating.

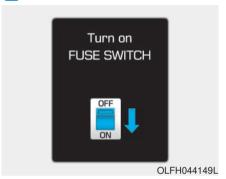
#### Fuse switch



Always, place the fuse switch to the ON position.

If you move the switch to the OFF position, some items such as the audio system and digital clock must be reset and the smart key may not work properly.

## Information

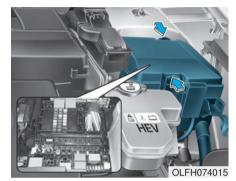


If the fuse switch is OFF, the above message will appear.

#### NOTICE

- Always place the fuse switch in the ON position while driving the vehicle.
- Do not move the fuse switch repeatedly. The fuse switch may be damaged.

## Engine compartment panel fuse replacement



- 1. Turn the hybrid system off.
- 2. Turn all other switches OFF.
- 3. Remove the fuse panel cover by pressing the tap and pulling up.
- Check the removed fuse; replace it if it is blown. To remove or insert the fuse, use the fuse puller in the engine compartment fuse panel.
- Push in a new fuse of the same rating, and make sure it fits tightly in the clips. If it fits loosely, consult an authorized HYUNDAI dealer.

#### Main fuse



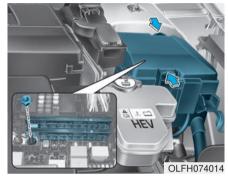
If the main fuse is blown, it must be removed as follows:

- 1. Turn off the engine.
- 2. Disconnect the negative battery cable.
- 3. Remove the fuse panel cover by pressing the tab and pulling it up.
- 4. Remove the nuts shown in the picture above.
- 5. Replace the fuse with a new one of the same rating.
- Reinstall in the reverse order of removal.

## **i** Information

If the main fuse is blown, consult an authorized HYUNDAI dealer.

#### Multi fuse



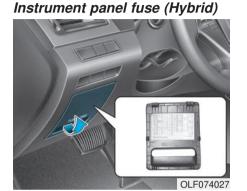
If the multi fuse is blown, it must be removed as follows:

- 1. Turn off the engine.
- 2. Disconnect the negative battery cable.
- Remove the fuse panel cover by pressing the tab and pulling it up.
- 4. Remove the nuts shown in the picture above.
- 5. Replace the fuse with a new one of the same rating.
- Reinstall in the reverse order of removal.

## *i* Information

If the multi fuse is blown, consult an authorized HYUNDAI dealer.

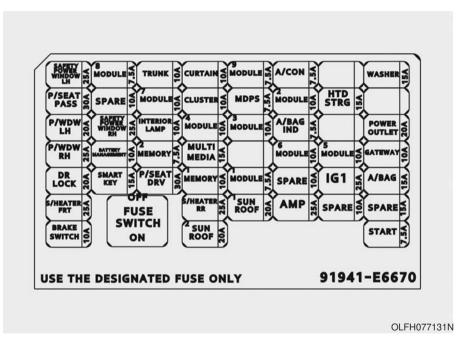
## Fuse/relay panel description



Inside the fuse/relay box cover, you can find the fuse/relay label describing fuse/relay name and capacity.

## **i** Information

Not all fuse panel descriptions in this manual may be applicable to your vehicle; the information is accurate at the time of printing. When you inspect the fuse box on your vehicle, refer to the fuse box label.



Fuse Name	Fuse rating	Circuit Protected	
SAFETY POWER WINDOW LH	25A	Driver Safety Power Window Module	
P/SEAT PASS	30A	Passenger Seat Manual Switch	
P/WDW LH	20A	Power Window Main Switch, Rear Power Window Module LH	
P/WDW RH	25A	Power Window Main Switch, Rear Power Window Module RH, Passenger Door Module, Passenger Power Window Switch	
DR LOCK	20A	Door Lock Relay, Door Unlock Relay	
S/HEATER FRT	25A	Front Air Ventilation Seat Module, Front Seat Warmer Module	
BRAKE SWITCH	10A	Stop Lamp Switch, Smart Key Control Module	
MODULE 8	7.5A	BCM, Smart Key Control Module	
SAFETY POWER WINDOW RH	25A	Passenger Safety Power Window Module	
BATTERY MANAGEMENT	10A	BMS Control Module	
SMART KEY	15A	Smart Key Control Module	
TRUNK	10A	Trunk Lid Relay, Fuel Filler Door & Trunk Lid Switch	

Fuse Name	Fuse rating	Circuit Protected	
MODULE 7	10A	Driver/Passenger Door Module, Electric Parking Brake Module, AMP, Digital Clock, Blind Spot Detection Rader LH/RH, Rear Parking Assist Sensor LH/RH/(Center), Rear Parking Assist Sensor LH/RH	
INTERIOR LAMP	10A	Glove Box Lamp, Driver/Passenger Door Lamp, Front Vanity Lamp Switch LH/RH, Overhead Console Lamp, Room Lamp, Rear Personal Lamp LH/RH, Trunk Room Lamp	
MEMORY 2	7.5A	Electro Chromic Mirror	
P/SEAT DRV	30A	Driver Seat Manual Switch, Driver IMS Module	
CURTAIN	10A	Rear Curtain Module	
CLUSTER	10A	Instrument Cluster	
MODULE 4	10A	Smart Key Control Module	
MULTI MEDIA	15A	Audio, A/V & Navigation Head Unit	
MEMORY 1	10A	Driver/passenger Door Module, Instrument Cluster, Digital Clock, Driver IMS Module, Auto Light & Photo Sensor, A/C Control Module, Rear Curtain Module, Data Link Connector, BCM, Tire Pressure Monitoring Module, Wireless Charger	
S/HEATER RR	25A	Rear Seat Warmer Module	
SUN ROOF 2	20A	Panorama Sunroof Motor	

Fuse Name	Fuse rating	Circuit Protected	
MODULE 9	7.5A	Front Air Ventilation Seat Module, Front Seat Warmer Module, Rear Seat Warmer Module, Rear Curtain Module	
MDPS	7.5A	MDPS Unit	
MODULE 3	10A	BCM, Sport Mode Switch, Stop Lamp Switch, Head Lamp LH/RH, DBL Control Module	
MODULE 1	7.5A	Natural Vacuum Leak Detection, Driver/Passenger Door Module, Driver/Passenger Smart Key Outside Handle, IGPM (Gateway), Driver/Passenger Power Outside Mirror, Active Air Flap Unit	
SUN ROOF 1	20A	Panorama Sunroof Motor	
A/CON	7.5A	A/C Control Module, E/R Junction Block (Blower Relay), Electric A/C Compressor	
MODULE 2	10A	AMP, Power Outside Mirror Switch, Digital Clock, Audio, A/V & Navigation Head Unit, Smart Key Control Module, BCM, Wireless Charger, USB Charge E/R Junction Block (Power Outlet Relay)	
A/BAG IND	7.5A	Instrument Cluster	
MODULE 6	10A	Multipurpose Check Connector, A/C Control Module, Audio, A/V & Navigation Head Unit, Electro Chromic Mirror, VESS Unit, Front Air Ventilation Seat Module, Front Seat Warmer Module, Rear Seat Warmer Module, Head Lamp LH/RH, A/T Shift Lever IND, Auto Head Lamp Leveling Device Module, E/R Junction Block (Battery C/Fan Relay)	
AMP	25A	AMP (JBL or INFINITY/ESTECH/DIMENSION)	
HTD STRG	15A	ВСМ	

Fuse Name	Fuse rating	Circuit Protected	
MODULE 5	10A	Front Console Switch, Active Air Flap Unit, BMS Control Module, Fuel Filler Door & Trunk Lid Switch, Smart Cruise Control Unit, Tire Pressure Monitoring Mudule, Driver IMS Module, VPD, Multi-Function Camera Unit	
IG1	25A	PCB Block (Fuse - TCU2/ECU3/HEV ECU2/OPCU2/EWP/AHB3)	
WASHER	15A	Multifunction Switch (Wiper Low & Washer Switch)	
POWER OUTLET	20A	Cigarette Lighter & Front Power Outlet #2	
GATEWAY	10A	IGPM (Gateway)	
A/BAG	15A	SRS Control Module, Occupant Detection Sensor	
START	7.5A	Transmission Range Switch, HPCU	

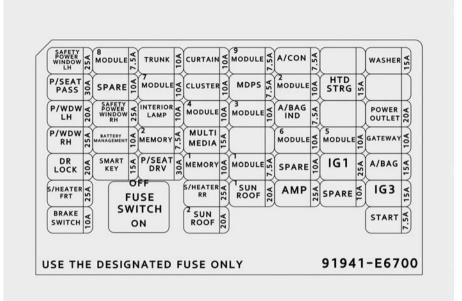
## Instrument panel fuse (Plug-in hybrid)



Inside the fuse/relay box cover, you can find the fuse/relay label describing fuse/relay name and capacity.

## **i** Information

Not all fuse panel descriptions in this manual may be applicable to your vehicle; the information is accurate at the time of printing. When you inspect the fuse box on your vehicle, refer to the fuse box label.



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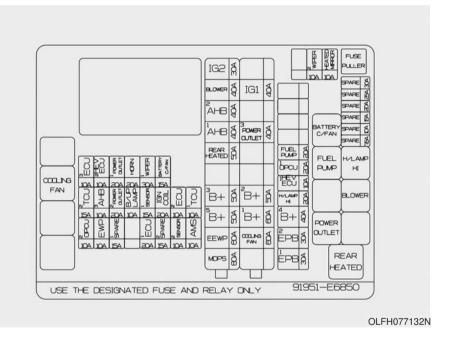
## Engine compartment fuse panel (Hybrid)



Inside the fuse/relay box cover, you can find the fuse/relay label describing fuse/relay name and capacity.

## **1** Information

Not all fuse panel descriptions in this manual may be applicable to your vehicle; the information is accurate at the time of printing. When you inspect the fuse panel in your vehicle, refer to the fuse panel label.



## Engine compartment main fuse panel

Fuse No.	Fuse Name	Fuse Rating	Circuit Protected
	IG2	30A	PCB Block (IG2 Relay)
	BLOWER	40A	Blower Relay
	<sup>2</sup> AHB	40A	Integrated Brake Actuation Unit, Multipurpose Check Connector
	1 AHB	40A	Integrated Brake Actuation Unit, Multipurpose Check Connector
MULTI FUSE (TYPE A)	REAR HEATED	50A	Rear Heated Relay
	<sup>3</sup> B+	50A	IGPM (IPS2 (4CH), IPS3 (4CH), Fuse - STOP LAMP/MODULE 1)
	<sup>5</sup> B+	50A	PCM Block (Fuse - WIPER1/HORN/BATTERY C/FAN/AMS/TCU1/ECU2/Engine Control Relay)
	EEWP	60A	Electric Water Pump
	MDPS 1	80A	MDPS Unit
MULTI FUSE - (TYPE B)	IG1	40A	PCB Block (IG1Relay)
	<sup>3</sup> POWER OUTLET	40A	Power Outlet Relay

## Engine compartment main fuse panel

Fuse No.	Fuse Name	Fuse Rating	Circuit Protected	
MULTI FUSE (TYPE B)	<sup>2</sup> B+	50A	IGPM (IPS1 (4CH), IPS4 (1CH), IPS5 (4CH), IPS6 (2CH), IPS7 (1CH), Fuse - AMP)	
	<sup>1</sup> B+	60A	IGPM (Fuse - P/SEAT DRV/P/SEAT PASS/S/HEATER RR/SUNROOF1/SUNROOF2/ SAFETY POWER WINDOW LH/ SAFETY POWER WINDOW RH/TRUNK/CURTAIN/ MODULE1/Power Window Relay)	
	COOLING FAN	60A	Cooling Fan Relay	
	FUEL PUMP	20A	Fuel Pump Relay	
	<sup>1</sup> OPCU	20A	Electric Oil Pump Unit	
	1 HEV ECU	10A	HPCU	
FUSE	H/LAMP HI	20A	Head Lamp High Relay	
	4 B+	40A	IGPM (Leak Current Autocut Device Fuse - INTERIOR LAMP/MEMORY1/MEMORY2/MULTI MEDIA, 40A Fuse -BRAKE SWITCH/SMART KEY/S/HEATER FRT/BATTERY MANAGEMENT/DR LOCK)	
	<sup>2</sup> EPB	30A	Electric Parking Brake Module	
	<sup>1</sup> EPB	30A	Electric Parking Brake Module	

## Engine compartment main fuse panel - E/R Junction Block

Fuse Name	Relay Name	Туре
E42	Cooling Fan Relay	3725 MINI
E45	Battery C/FAN Relay	ISO MICRO
E46	Fuel Pump Relay	ISO MICRO
E47	Head Lamp High Relay	ISO MICRO
E48	H/LAMP Washer Relay	ISO MICRO
E49	Blower Relay	ISO MICRO
E50	Power Outlet Relay ISO MICRO	
E52	Rear Heated Relay	3725 MINI

## Engine compartment main fuse panel - PCB Block

Fuse Name	Fuse rating	Circuit Protected	
ECU 3	10A	PCM	
HEV ECU 2	10A	HPCU	
POWER OUTLET 1	20A	Front Power Outlet #1	
HORN	20A	Horn Relay, ICM Relay Box (Burglar Alarm Horn Relay)	
WIPER 1	30A	Wiper Power Relay	
BATTERY C/FAN	15A	E/R Junction Block (Battery C/Fan Relay)	
TCU 2	15A	Transmission Range Switch, Electric Water Pump (Engine)	
AHB 3	10A	Integrated Brake Actuation Unit	
POWER OUTLET 2	20A	Rear Power Outlet	
B/UP LAMP	10A	PCM, Transmission Range Switch, Electro Chromic Mirror, Rear Combination Lamp (In) LH/RH	
SENSOR 1	15A	Oxygen Sensor (Up)/(Down)	

## Engine compartment main fuse panel - PCB Block

Fuse Name	Fuse rating	Circuit Protected	
IGN COIL	20A	Ignition Coil #1/#2/#3/#4	
ECU 2	10A	РСМ	
TCU 1	10A	РСМ	
OPCU 2	10A	Electric Oil Pump Unit (Control)	
EWP	10A	Electric Water Pump (HEV)	
ECU 1	20A	PCM	
SENSOR 2	10A	Mass Air Flow Sensor, Oil Control Valve #1 (Intake), Oil Control Valve #2 (Exhaust), Purge Control Solenoid Valve, Camshaft Position Sensor #1 (Intake), Camshaft Position Sensor #2 (Exhaust), E/R Junction Block (Cooling Fan Relay, Fuel Pump Relay)	
AMS	10A	Battery Sensor	

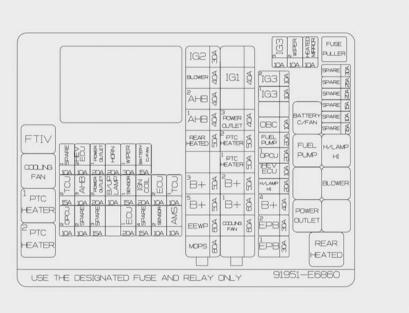
## Engine compartment main fuse panel (Plug-in hybrid)



Inside the fuse/relay box cover, you can find the fuse/relay label describing fuse/relay name and capacity.

## **1** Information

Not all fuse panel descriptions in this manual may be applicable to your vehicle; the information is accurate at the time of printing. When you inspect the fuse panel in your vehicle, refer to the fuse panel label.



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#### **LIGHT BULBS**

Consult an authorized HYUNDAI dealer to replace most vehicle light bulbs. It is difficult to replace vehicle light bulbs because other parts of the vehicle must be removed before you can get to the bulb. This is especially true for removing the headlamp assembly to get to the bulb(s).

Removing/installing the headlamp assembly can result in damage to the vehicle.

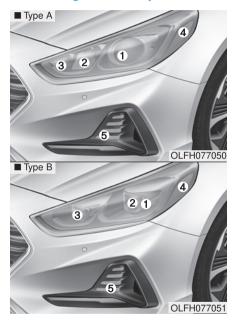
## Information

After heavy driving, rain or washing, headlamp and trunk lenses could appear frosty. This condition is caused by the temperature difference between the lamp inside and the outside temperature. This is similar to the condensation on your windows inside your vehicle during the rain and doesn't indicate a problem with your vehicle. If the water leaks into the lamp bulb circuitry, have your vehicle checked by an authorized HYUNDAI dealer.

### **A** WARNING

- Prior to replacing a lamp, depress the foot brake, move the shift lever into P (Park) apply the parking brake, place the igntion switch to the LOCK/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.

### Headlamp, parking lamp, turn signal lamp and side marker light bulb replacement



- (1) Headlamp (Low)
- (2) Headlamp (High)
- (3) Turn signal lamp
- (4) Side marker lamp
- (5) Daytime running lamp (DRL) / Parking lamp

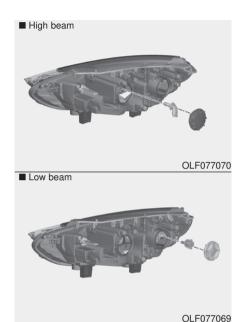


Headlamp (Halogen bulb)

## **A** WARNING

- Handle halogen bulbs with care. Halogen bulbs contain pressurized gas that will produce flying pieces of glass that could cause injuries if broken.
- Wear eye protection when changing a bulb. Allow the bulb to cool down before handling it.

- Always handle them carefully, and avoid scratches and abrasions. If the bulbs are lit, avoid contact with liquids.
- Never touch the glass with bare hands. Residual oil may cause the bulb to overheat and burst when lit.
- A bulb should be operated only when installed in a headlamp.
- If a bulb becomes damaged or cracked, replace it immediately and carefully dispose of it.



- 1. Open the hood.
- 2. Disconnect the negative battery cable.
- 3. Remove the headlamp bulb cover by turning it counterclockwise.
- 4. Disconnect the headlamp bulb socket-connector.

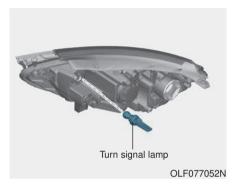
- Unsnap the headlamp bulb retaining wire by pressing the end and pushing it upward.
- 6. Remove the bulb from the headlamp assembly.
- Install a new headlamp bulb and snap the headlamp bulb retaining wire into position by aligning the wire with the groove on the bulb.
- 8. Connect the headlamp bulb socket-connector.
- 9. Install the headlamp bulb cover by turning it clockwise.

## *i* Information

The headlamp aiming should be adjusted after an accident or after the headlamp assembly is reinstalled at an authorized HYUNDAI dealer.

#### Headlamp (LED type)

If the LED lamp does not operate, have the system checked by an authorized HYUNDAI dealer.



#### Turn signal lamp

- 1. Open the hood.
- 2. Disconnect the negative battery cable.
- Remove the socket from the assembly by turning the socket counterclockwise until the tabs on the socket align with the slots on the assembly.
- Remove the bulb from the socket by pressing it in and rotating it counterclockwise until the tabs on the bulb align with the slots in the socket. Pull the bulb out of the socket.

- Install a new bulb by inserting it into the socket and rotating it until it locks into place.
- Install the socket in the assembly by aligning the tabs on the socket with the slots in the assembly.
- 7. Push the socket into the assembly and turn the socket clockwise.



Side marker lamp

- 1. Open the hood.
- 2. Disconnect the negative battery cable.
- Remove the socket from the assembly by turning the socket counterclockwise until the tabs on the socket align with the slots on the assembly.
- 4. Remove the bulb from the socket by pulling out the bulb.
- 5. Insert a new bulb.

Daytime running lamp/ Parking lamp (LED type)

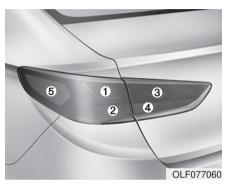
If the LED lamp does not operate, have the vehicle checked by an authorized HYUNDAI dealer.

## Side repeater lamp replacement



If the LED lamp does not operate, have the vehicle checked by an authorized HYUNDAI dealer.

## Rear combination light bulb replacement

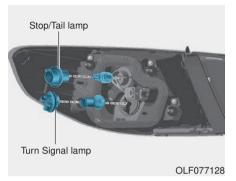


- (1) Stop/Tail lamp
- (2) Turn signal lamp
- (3) Tail lamp
- (4) Back-up lamp
- (5) Rear side marker (LED) (if equipped)



Stop/Tail lamp and Turn signal lamp (Bulb type)

- 1. Open the trunk lid.
- Remove the service cover by turning the lock counterclockwise and then pulling it out.



- Remove the socket from the assembly by turning the socket counterclockwise until the tabs on the socket align with the slots on the assembly.
- Remove the bulb from the socket by pressing it in and rotating it counterclockwise until the tabs on the bulb align with the slots in the socket. Pull the bulb out of the socket.
- Install a new bulb by inserting it into the socket and rotating it until it locks into place.

 Install the socket in the assembly by aligning the tabs on the socket with the slots in the assembly. Push the socket into the assembly and turn the socket clockwise.

Stop/Tail lamp and rear side marker (LED type)

If the LED lamp does not operate, have the vehicle checked by an authorized HYUNDAI dealer.



Back-up lamp and tail lamp

- 1. Open the trunk.
- Loosen the retaining screw of the trunk lid cover and then remove the cover.
- 3. Disconnect the connector and then remove the screws by turning the screws counterclockwise.



- 4. Remove the bulb by pulling it straight out.
- Install a new bulb by inserting it into the socket and rotating it until it locks into place.
- Install the socket into the assembly by aligning the tabs on the socket with the slots in the assembly. Push the socket into the assembly and turn the socket clockwise.
- 7. Reinstall the trunk lid cover by pushing in the screw.

#### High mounted stop lamp



- 1. Remove the rear seat cushion assembly.
- 2. Remove the rear seat back assembly.
- 3. Slightly remove the rear door weather-strip.
- 4. Remove the rear door scuff trim.
- 5. Remove the rear pillar trim.
- 6. Remove the rear seat belt lower anchor.
- 7. Remove the rear package tray trim.
- Remove the high mounted stop lamp after disengaging the mounting clip.
- 9. Install a new LED lamp.

## License plate light bulb replacement



- 1. Loosen the lens retaining screws with a philips head screwdriver.
- 2. Remove the lens.
- 3. Remove the bulb by pulling it straight out.
- 4. Install a new bulb.
- 5. Reinstall the lens securely with the lens retaining screws.

### Interior light bulb replacement

#### Map lamp and Room lamp

■ Map lamp - with sunroof

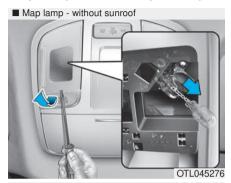


■ Room lamp - with sunroof

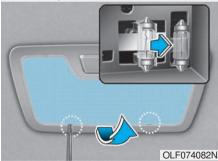


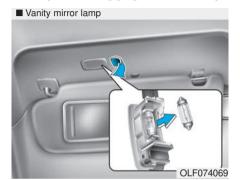
If the LED lamp does not operate, have the vehicle checked by an authorized HYUNDAI dealer.

### Map lamp, Room lamp, Vanity mirror lamp and Luggage room lamp











- Using a flat-head screwdriver, gently pry the lens from the interior light housing.
- 2. Remove the bulb by pulling it straight out.
- 3. Install a new bulb in the socket.
- 4. Align the lens tabs with the interior light housing notches and snap the lens into place.

If the lamps do not operating, have the vehicle checked by an authorized HYUNDAI dealer.

#### NOTICE

Use care not to dirty or damage lenses, lens tabs, and plastic housings.

#### APPEARANCE CARE

#### **Exterior care**

#### Exterior general caution

It is very important to follow the label directions when using any chemical cleaner or polish. Read all warning and caution statements that appear on the label

#### High-pressure washing

- When using high-pressure washers, make sure to maintain sufficient distance from the vehicle. Insufficient clearance or excessive pressure can lead to component damage or water penetration.
- Do not spray the camera, sensors or its surrounding area directly with a high pressure washer. Shock applied from high pressure water may cause the device to not operate normally.
- Do not bring the nozzle tip close to boots (rubber or plastic covers)or connectors as they may be damaged if they come into contact with high pressure water.
- Do not use any high-pressure nozzles, which induce either one-direct water stream or water swirling.

## Protecting your vehicle's finish

#### Washing

To help protect your vehicle's finish from rust and deterioration, wash it thoroughly and frequently at least once a month with lukewarm or cold water

If you use your vehicle for off-road driving, you should wash it after each off-road trip. Pay special attention to the removal of any accumulation of salt, dirt, mud, and other foreign materials. Make sure the drain holes in the lower edges of the doors and rocker panels are kept clear and clean.

Insects, tar, tree sap, bird droppings, industrial pollution and similar deposits can damage your vehicle's finish if not removed immediately.

Even prompt washing with plain water may not completely remove all these deposits. A mild soap, safe for use on painted surfaces, should be used.

After washing, rinse the vehicle thoroughly with lukewarm or cold water. Do not allow soap to dry on the finish.

#### **A** 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.

### **!** CAUTION

- 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.



## **A** CAUTION

- Water washing in the engine compartment including high pressure water washing may cause the failure of electrical circuits located in the engine compartment.
- Never allow water or other liquids to come in contact with electrical/electronic components inside the vehicle as this may damage them.

#### Waxing

A good coat of wax provides a barrier between your paint and environmental contamination.

Keeping a good coat of wax on your vehicle will help protect it.

Wax the vehicle when water will no longer bead on the paint.

Always wash and dry the vehicle before waxing. Use a good quality liquid or paste wax, and follow the manufacturer's instructions. Wax all metal trim to protect it and to maintain its luster.

Removing oil, tar, and similar materials with a spot remover will usually strip the wax from the finish. Be sure to re-wax these areas even if the rest of the vehicle does not yet need waxing.

## **A** CAUTION

 Wiping dust or dirt off the body with a dry cloth will scratch the finish.

(Continued)

#### (Continued)

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.

#### Repairing your vehicle's finish

Deep scratches or stone chips in the painted surface must be repaired promptly. Exposed metal will quickly rust and may develop into a major repair expense.

#### NOTICE

If your vehicle is damaged and requires any metal repair or replacement, be sure the body shop applies anti-corrosion materials to the parts repaired or replaced.

#### Bright-metal maintenance

- To remove road tar and insects, use a tar remover, not a scraper or other sharp object.
- To protect the surfaces of brightmetal parts from corrosion, apply a coating of wax or chrome preservative and rub to a high luster.
- During winter weather or in coastal areas, cover the bright metal parts with a heavier coating of wax or preservative. If necessary, coat the parts with non-corrosive petroleum jelly or other protective compound.

#### Underbody maintenance

Corrosive materials used for ice and snow removal and dust control may collect on the underbody. If these materials are not removed, accelerated rusting can occur on underbody parts such as the fuel lines, frame, floor pan and exhaust system, even though they have been treated with rust protection.

Thoroughly flush the vehicle underbody and wheel openings with lukewarm or cold water once a month, after off-road driving and at the end of each winter. Pay special attention to these areas because it is difficult to see all the mud and dirt. It will do more harm than good to wet down the road grime without removing it. The lower edges of doors, rocker panels, and frame members have drain holes that should not be allowed to clog with dirt; trapped water in these areas can cause rusting.

#### **A** WARNING

After washing the vehicle, test the brakes while driving slowly to see if they have been affected by water. If braking performance is impaired, dry the brakes by applying them lightly while maintaining a slow forward speed.

#### Aluminum wheel maintenance

The aluminum wheels are coated with a clear protective finish.

## **A** CAUTION

- Do not use abrasive cleaner, polishing compound, solvent, or wire brushes on aluminum wheels.
- Clean the wheel when it has cooled.
- Use only a mild soap or neutral detergent, and rinse thoroughly with water. Also, clean the wheels after driving on salted roads.
- Do not wash the wheels with high-speed car wash brushes.
- Do not use any cleaners containing acid or alkaline detergents.

#### Corrosion protection

**Protecting your vehicle from corrosion** 

By using the most advanced design and construction practices to combat corrosion, HYUNDAI produces cars of the highest quality. However, this is only part of the job. To achieve the long-term corrosion resistance your vehicle can deliver, the owner's cooperation and assistance is also required.

#### **Common causes of corrosion**

The most common causes of corrosion on your vehicle are:

- Road salt, dirt and moisture that is allowed to accumulate underneath the vehicle.
- Removal of paint or protective coatings by stones, gravel, abrasion or minor scrapes and dents which leave unprotected metal exposed to corrosion.

#### **High-corrosion areas**

If you live in an area where your vehicle is regularly exposed to corrosive materials, corrosion protection is particularly important. Some of the common causes of accelerated corrosion are road salts, dust control chemicals, ocean air and industrial pollution.

#### **Moisture breeds corrosion**

Moisture creates the conditions in which corrosion is most likely to occur. For example, corrosion is accelerated by high humidity, particularly when temperatures are just above freezing. In such conditions, the corrosive material is kept in contact with the car surfaces by moisture that is slow to evaporate.

Mud is particularly corrosive because it is slow to dry and holds moisture in contact with the vehicle. Although the mud appears to be dry, it can still retain the moisture and promote corrosion.

High temperatures can also accelerate corrosion of parts that are not properly ventilated so the moisture can be dispersed. For all these reasons, it is particularly important to keep your vehicle clean and free of mud or accumulations of other materials. This applies not only to the visible surfaces but particularly to the underside of the vehicle.

#### To help prevent corrosion Keep your car clean

The best way to prevent corrosion is to keep your vehicle clean and free of corrosive materials. Attention to the underside of the vehicle is particularly important.

If you live in a high-corrosion area
 — where road salts are used, near
 the ocean, areas with industrial
 pollution, acid rain, etc.—, you
 should take extra care to prevent
 corrosion. In winter, hose off the
 underside of your vehicle at least
 once a month and be sure to clean
 the underside thoroughly when
 winter is over.

- When cleaning underneath the vehicle, pay particular attention to the components under the fenders and other areas that are hidden from view. Do a thorough job; just dampening the accumulated mud rather than washing it away will accelerate corrosion rather than prevent it. Water under high pressure and steam are particularly effective in removing accumulated mud and corrosive materials.
- When cleaning lower door panels, rocker panels and frame members, be sure that drain holes are kept open so that moisture can escape and not be trapped inside to accelerate corrosion.

#### Keep your garage dry

Don't park your car in a damp, poorly ventilated garage. This creates a favorable environment for corrosion. This is particularly true if you wash your vehicle in the garage or drive it into the garage when it is still wet or covered with snow, ice or mud. Even a heated garage can contribute to corrosion unless it is well ventilated so moisture is dispersed.

Keep paint and trim in good condition Scratches or chips in the finish should be covered with "touch-up" paint as soon as possible to reduce the possibility of corrosion. If bare metal is showing through, the attention of a qualified body and paint shop is recommended.

Bird droppings are highly corrosive and may damage painted surfaces in just a few hours. Always remove bird droppings as soon as possible.

#### **Interior care**

#### Interior general precautions

Prevent caustic solutions such as perfume and cosmetic oil, from contacting the interior parts because they may cause damage or discoloration. If they do contact the interior parts, wipe them off immediately. See the instructions for the proper way to clean vinyl.

## **A** CAUTION

- Never allow water or other liquids to come in contact with electrical/electronic components inside the vehicle as this may damage them.
- When cleaning leather products (steering wheel, seats etc.), use neutral detergents or low alcohol content solutions. If you use high alcohol content solutions or acid/alkaline detergents, the color of the leather may fade or the surface may get stripped off.

## Cleaning the upholstery and interior trim

#### Vinyl (if equipped)

Remove dust and loose dirt from vinyl with a whisk broom or vacuum cleaner. Clean vinyl surfaces with a vinyl cleaner.

#### Fabric (if equipped)

Remove dust and loose dirt from fabric with a whisk broom or vacuum cleaner. Clean with a mild soap solution recommended for upholstery or carpets. Remove fresh spots immediately with a fabric spot cleaner. If fresh spots do not receive immediate attention, the fabric can be stained and its color can be affected. Also, its fire-resistant properties can be reduced if the material is not properly maintained.

#### **!** CAUTION

Using anything but recommended cleaners and procedures may affect the fabric's appearance and fire-resistant properties.

#### Leather (if equipped)

- · Feature of Seat Leather
  - Leather is made from the outer skin of an animal, which goes through a special process to be available for use. Since it is a natural object, each part differs in thickness or density.
  - Wrinkles may appear as a natural result of stretching and shrinking depending on the temperature and humidity.
  - The seat is made of stretchable fabric to improve comfort.
  - The parts contacting the body are curved and the side supporting area is high which provides driving comfort and stability.
  - Wrinkles may appear naturally from usage. It is not a fault of the products.

## **A** CAUTION

- Wrinkles or abrasions which appear naturally from usage are not covered by warranty.
- Belts with metallic accessories, zippers or keys inside the back pocket may damage the seat fabric.
- Make sure not to wet the seat.
   It may change the nature of natural leather.
- Jeans or clothes which could bleach may contaminate the surface of the seat covering fabric.

- Caring for the leather seats
  - Vacuum the seat periodically to remove dust and sand on the seat.
     It will prevent abrasion or damage of the leather and maintain its quality.
  - Wipe the natural leather seat cover often with dry or soft cloth.
  - Use of proper leather protective may prevent abrasion of the cover and helps maintain the color. Be sure to read the instructions and consult a specialist when using leather coating or protective agent.
  - Light colored (beige, cream beige) leather is easily contaminated and the stain is noticeable. Clean the seats frequently.
  - Avoid wiping with wet cloth. It may cause the surface to crack.

- Cleaning the leather seats
  - Remove all contaminations instantly. Refer to instructions below for removal of each contaminant.
  - Cosmetic products (sunscreen, foundation, etc.)

Apply cleansing cream on a cloth and wipe the contaminate spot. Wipe off the cream with a wet cloth and remove water with a dry cloth.

- Beverages (coffee, soft drink, etc.)
   Apply a small amount of neutral detergent and wipe until contaminations do not smear.
- Oil

Remove oil instantly with absorbable cloth and wipe with stain remover used only for natural leather.

- Chewing gum

Harden the gum with ice and remove gradually.

#### Cleaning the seat belt webbing

Clean the belt webbing with any mild soap solution recommended for cleaning upholstery or carpet. Follow the instructions provided with the soap. Do not bleach or re-dye the webbing because this may weaken the seat belt.

## Cleaning the interior window glass

If the interior glass surfaces of the vehicle become fogged (that is, covered with an oily, greasy or waxy film), they should be cleaned with glass cleaner. Follow the directions on the glass cleaner container.

## **A** CAUTION

Do not scrape or scratch the inside of the rear window. This may result in damage to the rear window defroster grid.

#### **EMISSION CONTROL SYSTEM**

The emission control system of your vehicle is covered by a written limited warranty. Please see the warranty information contained in the Owner's Handbook & Warranty Information booklet in your vehicle.

Your vehicle is equipped with an emission control system to meet all applicable emission regulations. There are three emission control systems, as follows.

- (1) Crankcase emission control system
- (2) Evaporative emission control system
- (3) Exhaust emission control system

In order to assure the proper function of the emission control systems, it is recommended that you have your vehicle inspected and maintained by an authorized HYUNDAI dealer in accordance with the maintenance schedule in this manual.

## **A** CAUTION

For the Inspection and Maintenance Test (With Electronic Stability Control (ESC) system)

- To prevent the vehicle from ESC activation during dynamometer testing, turn the Electronic Stability Control (ESC) system off by pressing the ESC switch (ESC OFF light illuminated).
- After dynamometer testing is completed, turn the ESC system back on by pressing the ESC switch again.

## 1. Crankcase emission control system

The positive crankcase ventilation system is employed to prevent air pollution caused by blow-by gases being emitted from the crankcase. This system supplies fresh filtered air to the crankcase through the air intake hose. Inside the crankcase, the fresh air mixes with blow-by gases, which then pass through the PCV valve into the induction system.

# 2. Evaporative emission control system including onboard refueling vapor recovery (ORVR)

The Evaporative Emission Control System is designed to prevent fuel vapors from escaping into the atmosphere. The ORVR system is designed to allow the vapors from the fuel tank to be loaded into a canister while refueling at the gas station, preventing the escape of fuel vapors into the atmosphere.

#### Canister

Fuel vapors generated inside the fuel tank are absorbed and stored in the onboard canister. When the engine is running, the fuel vapors absorbed in the canister are drawn into the surge tank through the purge control solenoid valve.

## Purge Control Solenoid Valve (PCSV)

The purge control solenoid valve is controlled by the Engine Control Module (ECM); when the engine coolant temperature is low during idling, the PCSV closes so that evaporated fuel is not taken into the engine. After the engine warms-up during ordinary driving, the PCSV opens to introduce evaporated fuel to the engine.

## 3. Exhaust emission control system

The Exhaust Emission Control System is a highly effective system which controls exhaust emissions while maintaining good vehicle performance.

When the engine starts or fails to start, excessive attempts to restart the engine may cause damage to the emission system.

#### Vehicle modifications

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

In addition, damage or performance problems resulting from any modification may not be covered under warranty.

 If you use unauthorized electronic devices, it may cause the vehicle to operate abnormally, wire damage, battery discharge and fire. For your safety, do not use unauthorized electronic devices.

## Engine exhaust (carbon monoxide) precautions

 Carbon monoxide can be present with other exhaust fumes. If you smell exhaust fumes of any kind in your vehicle, drive with all the windows fully open. Have your vehicle checked and repaired immediately.

#### **A** WARNING

Engine exhaust gases contain carbon monoxide (CO). Though colorless and odorless, it is dangerous and could be lethal if inhaled. Follow the instructions on this page to avoid CO poisoning.

#### **A** WARNING

## CALIFORNIA PROPOSITION 65 WARNING

Engine exhaust and a wide variety of automobile components and parts, including components found in the interior furnishings in a vehicle, contain or emit chemicals known to the State of California to cause cancer and birth defects and reproductive harm. In addition, certain fluids contained in vehicles and certain products of component wear contain or emit chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

- Do not operate the engine in confined or closed areas (such as garages) any more than what is necessary to move the vehicle in or out of the area.
- When the vehicle is stopped in an open area for more than a short time with the engine running, adjust the ventilation system (as needed) to draw outside air into the vehicle.
- Never sit in a parked or stopped vehicle for any extended time with the engine running.
- When the engine stalls or fails to start, excessive attempts to restart the engine may cause damage to the emission control system.

## Operating precautions for catalytic converters (if equipped)

#### **A** WARNING

The exhaust system and catalytic converter are very hot during and immediately after the engine has been running. To avoid SERIOUS INJURY or DEATH:

- Do not park, idle, or drive the vehicle over or near flammable objects, such as grass, vegetation, paper, leaves, etc. A hot exhaust system can ignite flammable items under your vehicle.
- Keep away from the exhaust system and catalytic converter or you may get burned.

Also, Do not remove the heat sink around the exhaust system, do not seal the bottom of the vehicle, and do not coat the vehicle for corrosion control. It may present a fire risk under certain conditions.

Your vehicle is equipped with a catalytic converter emission control device.

To prevent damage to the catalytic converter and to your vehicle, take the following precautions:

## **A** CAUTION

- Use only UNLEADED FUEL for gasoline engines.
- Do not operate the vehicle when there are signs of engine malfunction, such as misfire or a noticeable loss of performance.
- Do not misuse or abuse the engine. Examples of misuse are coasting with the hybrid system off and descending steep grades in gear with the engine off.
- Do not operate the engine at high idle speed for extended periods (5 minutes or more).

(Continued)

#### (Continued)

- Do not modify or tamper with any part of the engine or emission control system. All inspections and adjustments must be made by an authorized HYUNDAI dealer.
- Avoid driving with extremely low fuel level. If you run out of gasoline, it could cause the engine to misfire and result in excessive loading of the catalytic converter.

### CALIFORNIA PERCHLORATE NOTICE

Perchlorate Material-special handling may apply, See: www.dtsc.ca.gov/hazardouswaste/perchlorate.

Notice to California Vehicle Dismantlers:

Perchlorate containing materials, such as air bag inflators, seatbelt pretensioners and keyless remote entry batteries, must be disposed of according to Title 22 California Code of Regulations Section 67384.10 (a).

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## **DIMENSIONS**

Ite	in (mm)	
Overall length	191.1 (4,855)	
Overall width		73.4 (1,865)
Overall height	58.1 (1,475)	
Front tread	205/65R16*	63.5 (1,614)
From treat	215/55R17	63.0 (1,602)
Rear tread	205/65R16*	63.8 (1,621)
near tread	215/55R17	63.3 (1,609)
Wheelbase	110.4 (2,805)	

<sup>\* :</sup> Only for Hybrid vehicle. Not for Plug-in hybrid vehicle

## **ENGINE**

Items	Nu 2.0 GDI-HEV
Displacement cu. in (cc)	121.98 (1,999)
Bore x Stroke in. (mm)	3.18x3.82 (81x97)
Firing order	1-3-4-2
No. of cylinders	4, In-line

## **BULB WATTAGE**

	Light B	Bulb Type	Wattage		
		Low		HB3	60
	Headlamps	High	High		60
		Low/High		LED	LED
Front	Turn signal lamps	Front		PY28/8W	28
110111	Turri signariamps	Outside rearview min	rror	LED	LED
	Position lamps			LED	LED
	Front side marker			W5W	5
	Daytime running light (D	RL)		LED	LED
		Stop/Tail lamps	Bulb type	P28/8W	28/8
		Stop/Tail lamps LED type		LED	LED
	Rear combination lamp	Tail lamps		P28/8W	8
Rear		Turn signal lamps		PY27W	27
		Back-up lamps	-up lamps W16W		16
	License plate light			W5W	5
	High mounted stop lamp			LED	LED
	Map lamps	with sunroof		LED	LED
	Map lamps	without sunroof		FESTOON	10
	Room lamps	with sunroof		LED	LED
Interior	1100m lamps	without sunroof		FESTOON	10
	Luggage room lamp			FESTOON	5
	Glove box lamp		FESTOON	5	
	Vanity mirror lamp			FESTOON	5

#### TIRES AND WHEELS

Items	Tire Size	Wheel Size	Inflation pressure kPa (psi)				Wheel lug nut
items	Tile Size	Wileel Size	Normal Load		Maximun	n Load	torque kgf·m (lbf·ft, N·m)
			Front	Rear	Front	Rear	
Full size tire	205/65R16*	6.5JX16	240 (35)	240 (35)	240 (35)	240 (35)	11~13 (79~94,
Tuli Size the	215/55R17	7.0JX17	240 (35)	240 (35)	240 (35)	240 (35)	107~127)

<sup>\*:</sup> Only for Hybrid vehicle. Not for Plug-in hybrid vehicle

### **!** CAUTION

When replacing tires, use the same size originally supplied with the vehicle.

Using tires of a different size can damage the related parts or not work properly.

#### NOTICE

- It is permissible to add 3 psi to the standard tire pressure specification if colder temperatures are expected soon.
  - Tires typically loose 1psi (7kPa) for every 12°F temperature drop. If extreme temperature variations are expected, recheck your tire pressure as necessary to keep them properly inflated.
- An air pressure generally decreases, as you drive up to a high-altitude area above sea level. Thus, if you plan to drive a high-altitude area, check the tire pressures in advance. If necessary, inflate them to a proper level. (Air inflation per altitude: +2.4 psi/1 mile)

### **VOLUME AND WEIGHT**

Items		Hybrid	Plug-in hybrid
Gross vehicle weight	lbs. (kg)	4,630 (2,100)	4,784 (2,170)
Luggage volume	cu ft ( <i>l</i> )	13.42 (380)	9.89 (280)

## AIR CONDITIONING SYSTEM

Items		Weight of Volume	Classification
Refrigerant	oz. (g)	22.9 ± 0.8 (650 ± 25)	R-134a
Compressor lubricant	oz. (cc)	4.59 ± 0.35 (130 ± 10)	POE (RB100EV)

Contact an authorized HYUNDAI dealer for more details.

#### RECOMMENDED LUBRICANTS AND CAPACITIES

To help achieve proper engine and powertrain performance and durability, use only lubricants of the proper quality. The correct lubricants also help promote engine efficiency that results in improved fuel economy.

Lubricant V		Volume	Classification
Engine oil *1 *2 (drain and refill) Recommends		4.33 US qt. (4.1 <i>l</i> )	API SM & ILSAC GF-4 or above ACEA A5 or above
Automatic transmission fluid		6.34 US qt. (6.0 <i>l</i> )	MICHANG ATF SP-IV / SK ATF SP-IV / NOCA ATF SP-IV / HYUNDAI genuine ATF SP-IV or other brands meeting the above specification approved by Hyundai Motor Co.,
Engine coolant		6.97~7.29 US qt. (6.6 ~ 6.9 <i>l</i> )	Mixture of antifreeze and water (Ethylene glycol base coolant for aluminum radiator)
Inverter coolant		2.38 US qt. (2.26 l)	Mixture of antifreeze and water (Ethylene glycol base coolant for aluminum radiator)
Brake fluid		0.74~0.85 US qt. (0.7~0.8 <i>l</i> )	FMVSS116 DOT-3 or DOT-4
Fuel	Hybrid	15.85 US gal. (60 <i>l</i> )	Poter to "Eugl Paguiroments" in the Foreword chapter
ruei	Plug-in hybrid	14.53 US gal. (55 l)	Refer to "Fuel Requirements" in the Foreword chapter.

<sup>\*1</sup> Refer to the recommended SAE viscosity numbers on the next page.

<sup>\*2</sup> Engine oils labeled Energy Conserving Oil are now available. Along with other additional benefits, they contribute to fuel economy by reducing the amount of fuel necessary to overcome engine friction. Often, these improvements are difficult to measure in everyday driving, but in a year's time, they can offer significant cost and energy savings.

## Recommended SAE viscosity number

### **A** CAUTION

Always be sure to clean the area around any filler plug, drain plug, or dipstick before checking or draining any lubricant. This is especially important in dusty or sandy areas and when the vehicle is used on unpaved roads. Cleaning the plug and dipstick areas will prevent dirt and grit from entering the engine and other mechanisms that could be damaged.

Engine oil viscosity (thickness) has an effect on fuel economy and cold weather operating (engine start and engine oil flowability). Lower viscosity engine oils can provide better fuel economy and cold weather performance, however, higher viscosity engine oils are required for satisfactory lubrication in hot weather. Using oils of any viscosity other than those recommended could result in engine damage.

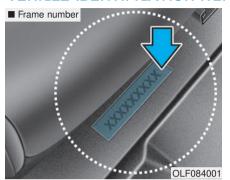
When choosing an oil, consider the range of temperature your vehicle will be operated in before the next oil change. Proceed to select the recommended oil viscosity from the chart.

Temperature Range for SAE Viscosity Numbers										
Tomporature	-30	-20		-10	0	10	20	30	40	50
Temperature (°F)	-1	0	0	20		40	60	80	100	120
Engine Oil *1							10W-3	0		
Engine Oil *1					5	W-20, 5\	N-30			

\*1 For better fuel economy, it is recommended to use the engine oil of a viscosity grade SAE 5W-20 (API SM / ILSAC GF-4). However, if the engine oil is not available in your country, select the proper engine oil using the engine oil viscosity chart.



#### **VEHICLE IDENTIFICATION NUMBER (VIN)**



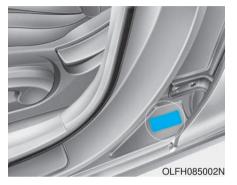
The vehicle identification number (VIN) is the number used in registering your car and in all legal matters pertaining to its ownership, etc.

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



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

## VEHICLE CERTIFICATION LABEL



The vehicle certification label attached on the driver's side center pillar gives the Vehicle Identification Number (VIN).

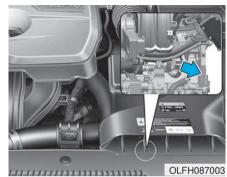
## TIRE SPECIFICATION AND PRESSURE LABEL



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

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

### **ENGINE NUMBER**



The engine number is stamped on the engine block as shown in the drawing.

## REFRIGERANT LABEL (IF EQUIPPED)



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

The label is located on the underside of the hood.

#### CONSUMER INFORMATION

This consumer information has been prepared in accordance with regulations issued by the National Highway Traffic Safety Administration of the U.S. Department of Transportation. Your HYUNDAI dealer will help answer any questions you may have as you read this information.

HYUNDAI motor vehicles are designed and manufactured to meet or exceed all applicable safety standards.

For your safety, however, we strongly urge you to read and follow all directions in this Owner's Manual, particularly the information under the headings "NOTICE", "CAUTION" and "WARNING".

If, after reading this manual, you have any questions regarding the operation of your vehicle, please contact your nearest HYUNDAI Motor America Regional Office as listed in the following:

#### **Eastern Region:**

Connecticut, Delaware,
Maine, Massachusetts, New
Hampshire, New Jersey, New York,
Pennsylvania, Rhode Island,
Vermont.
Eastern Region
1122 Cranbury South River Road
Jamesburg, NJ 08831
(800) 633-5151

#### Southern Region:

Carolina, South Carolina, Virginia, West Virginia.
Southern Region
3025 Chastain Meadows Parkway Suite 100 Marietta, GA 30066
(800) 633-5151

Florida, Georgia, Maryland, North

#### **South Central Region:**

Alabama, Arkansas, Louisiana, Mississippi, New Mexico, Oklahoma, Tennessee, Texas. South Central Region 1421 South Beltline Road, Suite 400 Coppell, TX 75019 (800) 633-5151

### **Central Region:**

Michigan, Minnesota, Nebraska, North Dakota, South Dakota, Ohio, Wisconsin, Kansas, Missouri. Central Region 2 Trans Am Plaza Dr #500 Oakbrook Terrace, IL 60181 (800) 633-5151

Illinois, Indiana, Iowa, Kentucky,

#### Western Region:

Alaska, Hawaii, Arizona, California, Colorado, Idaho, Montana, Nevada, Oregon, Utah, Washington, Wyoming.

Western Region

10550 Talbert Avenue P.O.Box 20850 Fountain Valley, California 92728-0850 (800) 633-5151

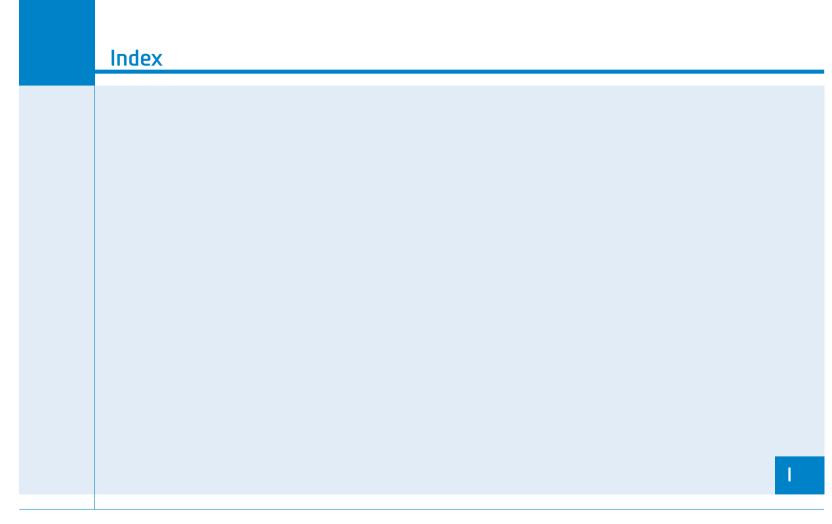
#### REPORTING SAFETY DEFECTS

If you believe that your vehicle has a defect which could cause a crash or could cause injury or death, you should immediately inform the National Highway Traffic Safety Administration (NHTSA) in addition to notifying HYUNDAI MOTOR AMERICA.

To contact NHTSA, you may call the Vehicle Safety Hotline toll-free at 1-888- 327-4236 (TTY: 1-800-424-9153); go to http://www.safercar.gov; download the SaferCar mobile application; or write to: Administrator, NHTSA 1200 New Jersey Ave, SE, West Building Washington, D.C. 20590.

You can also obtain other information about motor vehicle safety from http://www.safercar.gov.

If NHTSA receives similar complaints, it may open an investigation, and if it finds that a safety defect exists in a group of vehicles, it may order a recall and remedy campaign. However, NHTSA cannot become involved in individual problems between you, your dealer, or HYUNDAI MOTOR AMERICA.



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#### HEV (HYBRID ELECTRIC VEHICLE) SYSTEM

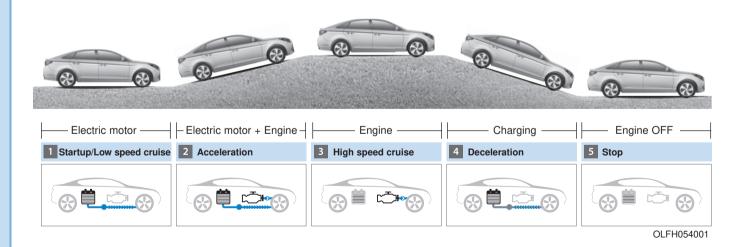
#### **Hybrid Vehicle**

The HYUNDAI Hybrid Electric Vehicle (HEV) uses both the gasoline engine and the electric motor for power. The electric motor is run by a high-voltage HEV battery.

Depending on the driving conditions, the HEV computer selectively operates between the engine and the electric motor or even both at the same time.

Fuel efficiency increases when the engine is off at idle, or when the vehicle is driven by the electric motor with the HEV battery.

The HEV battery charge must be maintained, so at times the engine will come on even at idle to act as a generator. Charging also occurs when decelerating or by regenerative braking.



#### PHEV (PLUG-IN ELECTRIC VEHICLE) SYSTEM

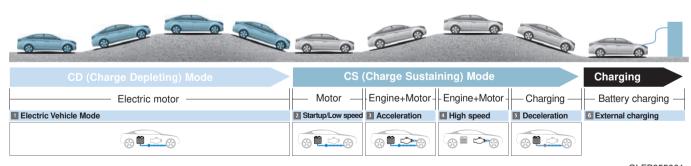
#### **Plug-in Hybrid Vehicle**

The HYUNDAI Plug-in Hybrid Electric Vehicle (PHEV) shares the characteristics of both a conventional hybrid electric vehicle and an all-electric vehicle.

When used as a conventional hybrid electric vehicle, the HEV computer selectively operates between the engine and the electric motor or even both at the same time.

When it is operating in the electric vehicle mode, the vehicle is driven only using the electric motor over a certain distance until the hybrid battery becomes low. The driving distance in EV mode depends on customer driving style and road conditions. Aggressive driving maneuvers may at times temporarily enable the engine to operate for maximum power.

The hybrid battery can be fully charged by connecting a plug to an external electric power source.



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#### CHARGING THE PLUG-IN HYBRID VEHICLE

#### **Charging Information**

 Normal Charger (Stage-2 type): The plug-in hybrid vehicle is charged by plugging into a normal charger installed in your home or a public charging station. (For further details, refer to the 'Normal Charge'.)  Trickle Charger (Stage-1 type): The plug-in hybrid vehicle can be charged by using household electricity.

The electrical outlet in your home must comply with regulations and can safely accommodate the Voltage / Current (Amps) / Power (Watts) ratings specified on the trickle charge.

#### **Charging Time**

#### Normal Charger (Stage-2 type):

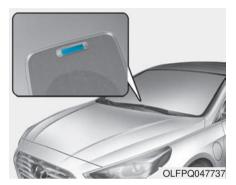
Takes about 2-3 hours at room temperature (Can be charged to 100%.). Depending on the condition and durability of the high-voltage battery, charger specifications, and ambient temperature, the time required for charging the high-voltage battery may vary.

#### **Charging Types**

Category	Charging Inlet (Vehicle)	Charging Connector	Charging Outlet	Charging Method	Charging Time
Normal Charger (Stage-2 type)	OLFP0Q5005K	OLFP0Q5006R	OLFP0Q4057N	Normal charger installed in homes or public charging stations	Approximately 2-3 hours (to fully charge the plug-in hybrid vehi- cle, 100%)
Trickle Charger (Stage-1 type)	OLFPOQ5005K	OLFP0Q5006K	OLFP0Q5008K	Household current	

An actual charger image and a charging method may vary in accordance with the charger manufacturers.

### **Charging Status**



You can monitor the charging status outside of the vehicle when charging the high-voltage battery.

Charging Status	Indicator	
Charging in progress	Illuminates (green)	
Fully charged	Off	
Scheduled charging	Blinks (green) and then turns off	
Malfunction	Blinks (red)	

# Scheduled Charging (if equipped)

- You can set-up a charging schedule for your vehicle through the Blue Link AVN control unit.
- Refer to the Multimedia manual or the Blue Link manual for detailed information about setting scheduled charging.
- Scheduled charging can only be done when using a normal charger or the portable charging cable (ICCB: In-Cable Control Box).



 When scheduled charging is set and the normal charger or the portable charging cable (ICCB: In-Cable Control Box) is connected for charging, the indicator lamp blinks (for 3 minutes) to indicate that scheduled charging is set.  When scheduled charging is set, charging is not initiated immediately when the normal charger or portable charging cable (ICCB: In-Cable Control Box) is connected. When immediate charging is required, use the AVN to deactivate the scheduled charge setting.

#### **Charging Precautions**

■ Normal Charger (Stage-2 type)



#### **A WARNING**

#### Fires caused by dust or water

Do not connect the charging cable connector plug to the vehicle if there is water or dust on the charging inlet. Connecting while there is water or dust on the charging cable connector and plug may cause a fire or electric shock.

#### **A** WARNING

Interference with electronic medical devices

When using medical electric devices such as an implantable cardiac pacemaker, make sure to ask the medical team and manufacturer whether charging your electric vehicle will impact the operation of the medical devices. In some instances, electromagnetic waves that are generated from the charger can seriously impact medical electric devices such as an implantable cardiac pacemaker.

#### **A** WARNING

Touching the charging connector

Do not to touch the charging connector, charging plug, and the charging inlet when connecting the cable to the charger and the charging inlet on the vehicle. Doing so may result in electrocution.

- Comply with the following in order to prevent electrical shock when charging:
  - Use a waterproof charger
  - Make sure to not touch the charging connector and charging plug when your hand is wet
  - Do not charge when there is lightning
  - Do not charge when the charging connector and plug is wet

#### **A WARNING**

#### **Charging cable**

- Immediately stop charging when you find abnormal symptoms (smell, smoke).
- Replace the charging cable if the cable coating is damaged to prevent electrical shock.
- When connecting or removing the charging cable, make sure to hold the charging connector handle and charging plug.
   If you pull the cable itself (without using the handle), the internal wires may disconnect or get damaged. This may lead to electric shock or fire.

#### **A** WARNING

#### Cooling fan

Do not touch the cooling fan while vehicle is charging. When the vehicle is switched OFF while charging, the cooling fan inside the motor compartment may automatically operate.

- Always keep the charging connector and charging plug in clean and dry condition. Be sure to keep the charging cable in a condition where there is no water or moisture.
- Make sure to use the designated charger for charging the vehicle. Using any other charger may cause failure.
- Before charging the battery, turn the vehicle OFF.
- Be careful not to drop the charging connector. The charging connector can be damaged.

### **Normal Charge**



You can charge your vehicle by plugging into a public charger at a charging station.

## How to Connect Normal Charger



- 1. Depress the brake pedal and apply the parking brake.
- Turn OFF all switches, move the shift lever to P (Park), and turn OFF the vehicle.
- 3. Open the charging door by pressing it.

## **i** Information

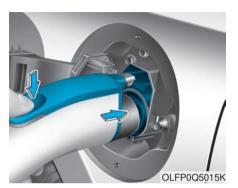
The charging door does not open when the theft alarm system is armed.



4. Open the charging inlet cover (1).

## **i** Information

To open the charging inlet cover, all vehicle doors must be unlocked. When the doors are locked, the charging inlet cover will not open.



- 5. Remove any dust on the charging connector and charging inlet.
- Hold the charging connector handle. Then, insert it into the charging inlet, until you hear a click sound. If it is not fully connected, a bad connection between the charging connector and the charging terminals may cause a fire.



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- Check if the charging cable connection indicator of the high voltage battery in the instrument cluster is turned ON.
  - Charging does not occur when the indicator is OFF. When the charging connector is not connected properly, reconnect the charging cable to charge.

## *i* Information

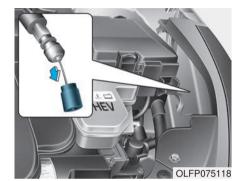
- The charging is in progress only with the shift lever is in P (Park). Charging the battery with the Engine Start/Stop button in the ACC position is possible. However, it may discharge the 12-V battery. Thus, if possible, charge the battery with the Engine Start/Stop button in the OFF position.
- Moving the shift lever from P (Park) to R (Reverse)/N(Neutral)/D (Drive) stops the charging process.

To restart the charging process, move the shift lever to P (Park), press the Engine Start/Stop button to the OFF position, and disconnect the charging cable. Then, connect the charging cable.



8. After charging has started, the estimated charging time is displayed on the instrument cluster for about 1 minute. It is also displayed, when the driver's door is opened with charging in progress. When scheduled charging is set, the estimated charging time is displayed as "--".

#### Unlock Charging Door in **Emergency**



If the charging door does not open due to battery discharge, open the hood and slightly pull the emergency cable as shown above. The charging door will then open.

## **Charging Status** Checking Charging Status



You can monitor the charging status outside of the vehicle when charging the high-voltage battery.

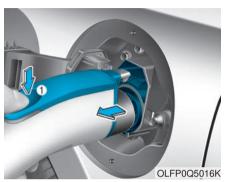
Charging Status	Indicator	
Charging in progress	Illuminates (green)	
Fully charged	Off	
Scheduled charging	Blinks (green) and then turns off	
Malfunction	Blinks (red)	

## How to Disconnect Normal Charger

 The vehicle doors must be unlocked in order to be able to disconnect the charging connector. A lock system prevents charger cable disconnection when the vehicle's doors are locked.

#### NOTICE

In order to disconnect the charging connector, unlock the doors to unlatch the charging connector lock system. If not, the charging connector and the vehicle's charging inlet may be damaged.



2. Hold the charging connector handle and pull it while pressing the release button (1).

#### NOTICE

When disconnecting the charging connector, do not try to disconnect it by force while not pressing the release button. This may damage the charging connector and vehicle charging inlet.

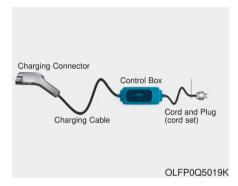


- 3. Make sure to securely close the charging inlet cover.
- 4. Make sure to securely close the charging door.

#### NOTICE

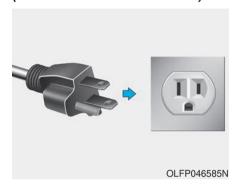
- Do not modify or disassemble the charging cable components.
   It may cause a fire or an electric shock with personal injury.
- Keep the charging connector and the charging plug clean and dry. The charging cable should be also kept dry.
- Use an air gun to blow any foreign substances from the charging connector and the charging plug.

### **Trickle Charger (Stage-1 type)**



Trickle charger Stage-1 type can be used if Normal Charger stage-2 type is unavailable.

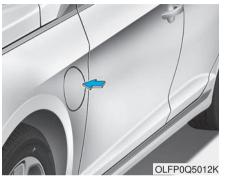
How to Connect Portable Charging Cable (ICCB: In-Cable Control Box)



- Turn OFF all switches, move the shift lever to P (Park), and turn OFF the vehicle.
- Connect the plug to a household electric outlet.



3. Check if all LED lamps on the control box blinks for 0.5 seconds. Then, check if the power lamp (green) turns ON.



- 4. Depress the brake pedal and apply the parking brake.
- 5. Open the charging door by pressing it.

## *i* Information

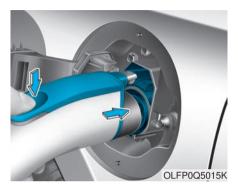
The charging door does not open when the theft alarm system is armed.



6. Open the charging inlet cover (1).

## *i* Information

To open the charging inlet cover, all vehicle doors must be unlocked. When the doors are locked, the charging inlet cover will not open.



- 7. Remove any dust on the charging connector and charging inlet.
- 8. Hold the charging connector handle. Then, insert it into the charging inlet, until you hear a click sound. If it is not fully connected, improper connection between the charging connector and the charging terminals are a potential fire hazard.



9. Charging starts automatically. Check if the power lamp and charging lamp (orange) are ON.



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- Check if the charging cable connection indicator of the high voltage battery in the instrument cluster is turned ON
  - Charging does not occur when the indicator is OFF. When the charging connector is not connected properly, reconnect the charging cable to charge.

### *i* Information

- The charging is in progress only with the shift lever is in P (Park). Charging the battery with the Engine Start/Stop button in the ACC position is possible. However, it may discharge the 12-V battery. Thus, if possible, charge the battery with the Engine Start/Stop button in the OFF position.
- Moving the shift lever from P (Park) to R (Reverse)/N(Neutral)/D (Drive) stops the charging process.

To restart the charging process, move the shift lever to P (Park), press the Engine Start/Stop button to the OFF position, and disconnect the charging cable. Then, connect the charging cable and restart the vehicle again.



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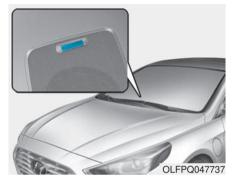
11. After charging has started, the estimated charging time is displayed on the instrument cluster for about 1 minute. It is also displayed, when the driver's door is opened with charging in progress. When scheduled charging is set, the estimated charging time is displayed as "--".

#### Unlock Charging Door in Emergency



If the charging door does not open due to battery discharge, open the hood and slightly pull the emergency cable as shown above. The charging door will then open.

## Checking Charging Status



You can monitor the charging status outside of the vehicle when charging the high-voltage battery.

Charging Status	Indicator		
Charging in progress	Illuminates (green)		
Fully charged	Off		
Scheduled charging	Blinks (green) and then turns off		
Malfunction	Blinks (red)		

## Charging Status Indicator Lamp for Portable Charging Cable

•	Category	Lamp ON	Lamp OFF	Blinking
	LED Status	•	-	•

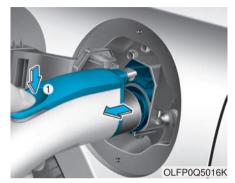
Charger Status		Control Box ON/OFF Status	Power	Charge	Fault	Status / Diagnosis / Countermeasure
Initial Preparation Mode		**POWER **CHARGE **FAULT OLFP0Q5025K	•	•	•	When applying power to the initial ICCB wall
Charging Preparation Mode		POWER  CHARSE FAULT  OLFP0Q5024K	•	-	-	When ICCB charging connector is not connected to the vehicle, or connected but charging status is in Standby mode
Charging Mode		POWER  CHARGE  FAULT  OLFP0Q5023K	•	•	-	Charging
Failure	ICCCB failure or electrical leak-age detected		•	-	•	Stop charging immediately and contact an authorized HYUNDAI dealer for ICCB check.
			•	-	•	

#### How to Disconnect PortableCharging Cable (ICCB: In-Cable Control Box)

 Before disconnecting the charging connector, make sure the doors are unlocked. When the door is locked, the charging connector lock system will not allow disconnection.

#### NOTICE

In order to disconnect the charging connector, unlock the doors to unlatch the charging connector lock system. If not, the charging connector and the vehicle's charging inlet may be damaged.



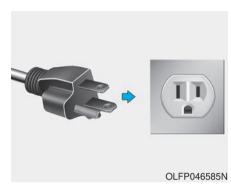
2. Hold the charging connector handle and pull it while pressing the release button (1).

#### NOTICE

When disconnecting the charging connector, do not try to disconnect it by force while not pressing the release button. This may damage the charging connector and vehicle charging inlet.



- 3. Make sure to securely close the charging inlet cover.
- 4. Make sure to securely close the charging door.



- 5. Disconnect the plug from the household electric outlet. Do not pull the cable when disconnecting the plug.
- Close the protective cover for the charging connector so that foreign material cannot get into the terminal.
- 7. Put the charging cable inside the cable compartment to protect it.

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

- Use the portable charging cable that is certified by HYUNDAI.
- Do not try to repair, disassemble, or adjust the portable charging cable.
- Do not use an extension cord or adapter.
- Stop using immediately if failure warning light occurs.
- Do not touch the plug and charging connector with wet hands.
- Do not touch the terminal part of the normal charging connector and the normal charging inlet on the vehicle.
- Do not connect the charging connector to voltage that does not comply with regulations.
- Do not use the portable charging cable if it is worn out, exposed, or there exists any type of damage on the portable charging cable.

- If the ICCB case and normal charging connector is damaged, cracked, or the wires are exposed in any way, do not use the portable charging cable.
- Do not let children operate or touch the portable charging cable.
- Keep the control box free of water.
- Keep the normal charging connector or plug terminal free of foreign substances.
- Do not step on the cable or cord.
   Do not pull the cable or cord and do not twist or bend it.
- Do not charge when there is lightning.
- Do not drop the control box or place a heavy object on the control box.

- Do not place an object that can generate high temperatures near the charger when charging.
- Charging with the worn out or damaged household electric outlet can result in a risk of electric shock. If you are in doubt to the household electric outlet condition, have it checked by a licensed electrician.
- Stop using the portable charging cable immediately if the household electric outlet or any components is overheated or you notice burnt odors.

#### Starting the vehicle

- 1. Carry the smart key or leave it inside the vehicle.
- 2. Make sure the parking brake is firmly applied.
- Place the shift lever in P (Park).
   With the shift lever in N (Neutral),
   you cannot start the vehicle.
- 4. Depress the brake pedal.
- Press the Engine Start/Stop button. If the hybrid system starts, the
   " = " indicator will come on and a
   double chime can be heard.

Whether the engine is cold or warm, it should be started without depressing the accelerator.

After following the start procedures, "= "indicator on the instrument cluster will turn on.

For more information, please check Chapter 5.

## **ECONOMICAL and SAFE OPERA- TION of Hybrid system**

 Drive smoothly. Accelerate at a moderate rate and maintain a steady cruising speed. Do not make "jack-rabbit" starts. Do not race between stoplights.

Avoid heavy traffic whenever possible. Always maintain a safe distance from other vehicles so you can avoid unnecessary braking. This also reduces brake wear out.

- The regenerative brake generates energy when the vehicle decelerates.
- When the hybrid battery power is low, the hybrid system automatically recharges the hybrid battery.
- When the engine is running with the shift lever in N (Neutral), the hybrid system cannot generate electricity. The hybrid battery cannot recharge with the shift lever in N (Neutral).

### **i** Information

In the hybrid system, the engine automatically runs and stops. When the hybrid system operates, the "="" indicator is illuminated.

In the following situation, the engine may operate automatically.

- When the engine is ready to run
- When the hybrid battery is being charged
- Depending on the temperature condition of the hybrid battery

#### **A** WARNING

To avoid serious injury, turn off hybrid system and be sure " = " indicator is off before working under hood. Engine may start unexpectedly.

#### **Special features**

Hybrid vehicles sound different than gasoline engine vehicles. When the hybrid system operates, you may hear a sound from the hybrid battery system behind the rear seat. If you apply the accelerator pedal rapidly, you may hear an unconventional sound. When you apply the brake pedal, you may hear a sound from the regenerative brake system. When the hybrid system is turned off or on, you may hear a sound in the engine compartment. If you depress the brake pedal repeatedly when the hybrid system is turned on, you may hear a sound in the engine compartment. None of these sounds indicate a problem. These are normal characteristics of hybrid vehicles.

If any of following occur, it's a normal condition if you hear a motor sound in the engine compartment:

- After turning off the hybrid system, the brake pedal is released.
- When the hybrid system is turned off, the brake pedal is applied.
- When the driver door is opened.

When the hybrid system is turned ON, the gasoline engine may activate or may not. In this situation, you may feel a vibration. This does not indicate a malfunction. When the " " indicator illuminates, the hybrid system is ready to begin driving. Even if the engine is off, you can operate the vehicle as long as the " " indicator is illuminated.

#### NOTICE

The hybrid system contains many electronic components. High voltage components, such as cables and other parts, may emit electromagnetic waves. Even when the electromagnetic cover blocks electromagnetic emissions, electromagnetic waves may have an effect on electronic appliances. When your vehicle is not used for a long period of time, the hybrid system will discharge. You need to drive the vehicle several times a month. We recommend driving at least for 1 hour or 10 miles. When the hybrid battery is discharged, or when it is impossible to jump start the vehicle, contact your HYUNDAI dealer.

#### **A** WARNING

- When you start the hybrid system with the shift lever in P (Park), the "=" indicator illuminates on the instrument cluster. The driver can drive the vehicle, even when the gasoline engine is off.
- When you leave the vehicle, you should turn OFF the vehicle and place the shift lever in P (Park). If you depress the accelerator pedal by mistake, or when the shift lever is not in P (Park), the vehicle will abruptly move, possibly resulting in serious injury or death.

## Virtual Engine Sound System (VESS)

The Virtual Engine Sound System generates engine sounds for pedestrians to hear vehicle sound because there is limited sound while electric power is used.

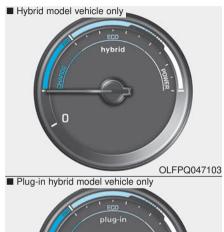
## What Does Regenerative Braking Do?

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

#### Battery

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

## Hybrid system gauge





The hybrid system gauge indicates whether the current driving condition is fuel efficient or not.

#### · CHARGE:

Shows that the energy made by the vehicle is being converted to electrical energy. (Regenerated energy)

#### • ECO :

Shows that the vehicle is being driven in an Eco-friendly manner.

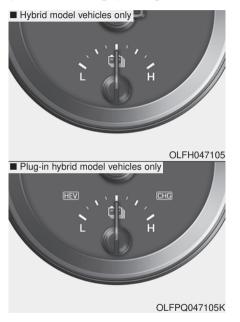
#### · POWER:

Shows that the vehicle is exceeding the Eco-friendly range.

According to the hybrid system gauge area, the "EV" indicator comes on or off.

- "EV" indicator ON: Vehicle is driven using the electric motor or the gasoline engine is stopped.
- "EV" indicator OFF: Vehicle is driven using the gasoline engine.

# Hybrid Battery SOC (State of Charge) Gauge



This gauge indicates the remaining hybrid battery power. If the SOC is near the "L (Low)" level, the vehicle automatically operates the engine to charge the battery.

However, if the Service Indicator ( ) and Malfunction Indicator Lamp (MIL) ( ) turn on when the SOC (State of charge) gauge is near the "L (Low)" level, have the vehicle checked by an authorized HYUNDAI dealer.

#### Changing plug-in hybrid mode



Pressing the HEV button changes the plug-in hybrid system modes, as below.

- Press and hold: It changes to the HEV-charging mode.

When the HEV button is pressed in the HEV-charging mode, the mode changes as below.

- Shortly pressed : It changes to the CS mode.
- Press and hold: It remains in the HEV-charging mode.

#### Plug-in hybrid mode indicator

• CD (Charge Depleting, Electric) mode



:The high-voltage (hybrid) battery is used to drive the vehicle.

• CS (Charge Sustaining, Hybrid) mode



: The high-voltage (hybrid) battery and gasoline engine is used to drive the vehicle.

· HEV-charging mode



Gasoline engine is used to drive the vehicle and charge the high-voltage (hybrid) battery

A corresponding message is displayed to indicate the selected mode.







OLFH047781N/OLFH047782N/OLFH047783N

### Warning and indicator lights

#### Service Warning Light



#### **EV Mode Indicator**

EV

#### Ready Indicator



This indicator illuminates: When the vehicle is ready to be driven.

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

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

This warning light illuminates:

- When the Engine Start/Stop button is in the ON position.
  - It normally flashes on momentarily for 3 seconds at Ready On and should then stay off.
- When there is a problem with the hybrid vehicle control system or hardware.

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

This indicator illuminates when the vehicle is driven by the electric motor.

Charging Cable Connection Indicator (Plug-in hybrid)



This indicator illuminates in red when the charging cable is connected.

# Regenerative Brake Warning Light





This warning light illuminates: When the regenerative brake is not operating. This causes the Brake Warning light (red) and Regenerative Brake Warning Light (yellow) to illuminate simultaneously as soon as possible.

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

The service brake still function, however, the operation of the brake pedal may be more difficult than normal and the braking distance can increase.

### Warning messages

#### Check Hybrid system

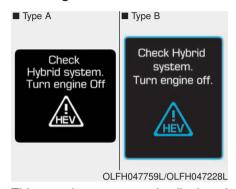


This warning message is displayed when there is a problem with the hybrid control system.

Refrain from driving when the warning message is displayed.

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

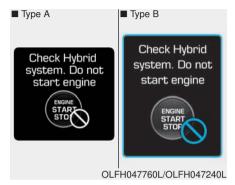
#### Check Hybrid system. Turn engine off.



This warning message is displayed when there is a problem with the hybrid system. The "="indicator will blink and a warning chime will sound until the problem is solved."

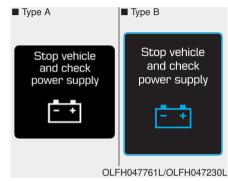
In this case, have your vehicle inspected by an authorized HYUNDAI dealer.

## Check Hybrid system. Do not start engine.



This warning message is displayed when the hybrid battery power (SOC) level is low. A warning chime will sound until the problem is solved. In this case, have your vehicle inspected by an authorized HYUNDAI dealer.

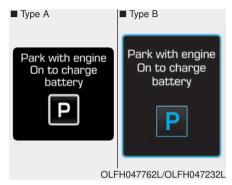
# Stop vehicle and check power supply



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

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

#### Park with engine On to charge battery

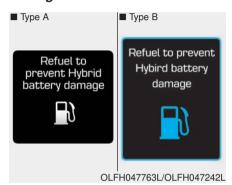


This warning message is displayed when the hybrid battery power (SOC) level is low.

In this case, park the vehicle in a safe location and wait until the hybrid battery is charged.

You can increase the hybrid battery charging rate by holding the accelerator pedal to the floor with transmission in P. The engine will rev high but it will be limited for charging purpose when you hold the pedal to the floor.

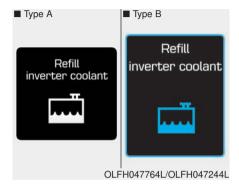
## Refuel to prevent Hybrid battery damage



This warning message is displayed when the fuel tank is nearly empty. You should refill the fuel tank to pre-

vent hybrid battery damage.

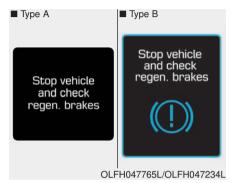
#### Refill inverter coolant



This warning message is displayed when the inverter coolant is nearly empty.

You should refill the inverter coolant.

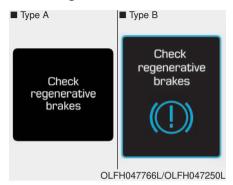
## Stop vehicle and check regen. brakes



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

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

#### Check regenerative brakes



This warning message is displayed when the brake performance is low or the regenerative brake does not work properly due to a failure in the brake system.

In this case, it may take longer for the brake pedal to operate and the braking distance may become longer.

#### Check Virtual Engine Sound System



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

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

#### Coasting guide (if equipped)



OLFH045254N

A chime will sound and the coasting guide indicator will blink four times to inform the driver when to take the foot off from the accelerator by anticipating a decelerating event\* based on the analysis of driving routes and road conditions of the navigation. It encourages the driver to remove foot from the pedal and allow coasting down the road with EV motor only. This helps prevent unnecessary fuel consumption and increases fuel efficiency.

Example of a deceleration event is going down an extended hill, slowing down approaching a toll booth, and approaching reduced speed zones.



OLFH047182N/OLFH047556N/OLFP047578N

#### User settings

Press the Engine Start/Stop button and put the shift lever in P(Park). In the User Settings Mode, select Driving Assist, Coasting Guide, and then On to turn on the system. Cancel the selection of coasting guide to turn off the system. For the explanation of the system, press and hold the [OK] button.

#### Operation conditions

To activate the system, take the following procedures. Enter your destination information on the navigation and select the driving route. Select the ECO mode in the Integrated Driving Control System. Then, satisfy the following.

- The driving speed should be between 37 mph (60 km/h) and 99 mph (160 km/h).
- \* The operating speed may vary due to difference between instrument cluster and navigation effected by tire inflation level.

## Information

Coasting guide is only a supplemental system to assist with fuel-efficient driving. Thus, the operating conditions may be different in accordance with traffic/road conditions (i.e. driving in a traffic jam, driving on a slope, driving on a curve). Thus, take the actual driving conditions into consideration, such as distances from the vehicles ahead/behind, while referring to the coasting guide system as guidance.

## Unplugging vehicle to start (Plug-in hybrid)



The message is displayed when you start the engine without unplugging the charging cable. Unplug the charging cable, and then start the vehicle.

## Remaining time to fully charge the battery (Plug-in hybrid)



The message is displayed to notify the remaining time to fully charge the battery.

# Wait until fuel door opens (Plug-in hybrid)



OLFH047784N

The message is displayed when you attempt to open the fuel filler door with the fuel tank pressurized. Wait until the fuel tank is depressurized.

### **i** Information

- It may take up to 20 seconds to open fuel filler door.
- When the fuel filler door is frozen and does not open after 20 seconds at freezing temperature, slightly tap the fuel filler door and then attempt to open it.

# Fuel door open (Plug-in hybrid)



OLFH047785N

The message is displayed when the fuel filler door opens after the fuel tank is depressurized. If this message is displayed, you can refuel the fuel tank.

## Check fuel door (Plug-in hybrid)



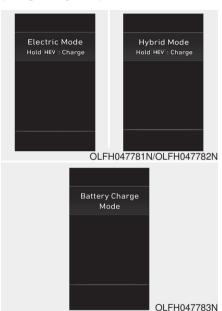
The message is displayed when the vehicle is driven with the fuel filler door opened. Close the fuel filler door and then start driving.

#### Park with engine On to charge battery (Plug-in hybrid)



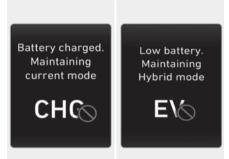
The message is displayed when the charging connector is plugged with the shift lever in R (Reverse), N (Neutral) or D (Drive). Move the shift lever to P (Park) and re-start the charging process.

## EV / HEV/ CHG modes (Plug-in hybrid)



A corresponding message is displayed when a mode is selected by pressing the HEV button

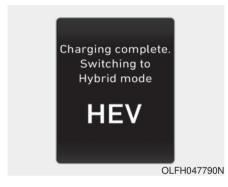
Battery charged. Maintaining current mode/Low battery. Maintaining Hybrid mode (Plug-in hybrid)



OLFH047788N/OLFH047789N

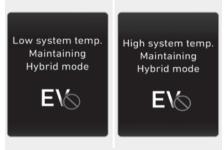
A corresponding message is displayed when the high-voltage (hybrid) battery is fully charged or nearly discharged.

Charging complete. Switching to Hybrid mode (Plug-in hybrid)



The message is displayed when the high-voltage (hybrid) battery is fully charged, and when the mode is changed to the HEV mode.

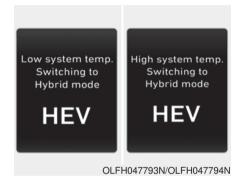
Low/High System Temp. Maintaining hybrid mode (Plug-in hybrid)



OLFH047791N/OLFH047792N

A corresponding message is displayed when the temperature of the high-voltage (hybrid) battery is too low or too high. This warning message is to protect the battery and the hybrid system.

#### Low/High System Temp. Switching to hybrid mode (Plug-in hybrid)



A corresponding message is displayed when the temperature of the high-voltage (hybrid) battery is too low or high. This warning message is to protect the battery and the hybrid system.

### Switching to Hybrid mode to lubricate engine (Plug-in hybrid)



OLFP047768N

To prevent damage of the hybrid lubrication system when the hybrid system has not been started for a long time.

- When the hybrid system is ON after 5 weeks of being turned off, the hybrid system maintenance mode will operate.
- When the hybrid system maintenance mode is operated, HEV mode will be kept on after the hybrid system is ON and the above message will be displayed on the cluster.

If you press the HEV switch to shift EV mode during engine maintenance mode, the above message will appear due to priority of the hybrid system maintenance mode.

#### DRIVING THE HYBRID/PLUG-IN HYBRID VEHICLE (CONT.)

# Maintaining Hybrid mode to protect engine (Plug-in hybrid)



OLFP047769N

The hybrid system will automatically stop after sufficient heating. (If the hybrid system is turned OFF without sufficient heating, the hybrid system maintenance mode will be operated once more.

# **Energy flow**

The hybrid system informs the drivers its energy flow in various operating modes. While driving, the current energy flow is specified in 11 modes.

#### Vehicle Stop



The vehicle is stopped. (No energy flow)

#### **EV** Propulsion



Only the motor power is used to drive the vehicle.

(Battery → Wheel)

#### Power Assist



Both the motor and the engine power are used to drive the vehicle.

(Battery & Energy → Wheel)

# **Engine Only Propulsion**



Only the engine power is used to drive the vehicle.
(Engine → Wheel)

#### **Engine Generation**



When the vehicle is stopped, the high-voltage battery is charged up by the engine.

(Engine → Battery)

# DRIVING THE HYBRID/PLUG-IN HYBRID VEHICLE (CONT.)

## Regeneration



The high-voltage battery is charged up by the regenerative brake system. (Wheel → Battery)

# Engine Brake



The engine braking is used to decelerate the vehicle.

(Wheel → Engine)

#### Power Reserve



The engine is simultaneously used to drive the vehicle and to charge up the high-voltage battery.

(Engine → Wheel & Battery)

### Engine Generation/Motor Drive



The engine charges up the high-voltage battery. The motor power is used to drive the vehicle.

(Engine → Battery → Wheel)

# Engine Generation/Regeneration



The engine and regenerative brake system charges up the high-voltage battery.

(Engine & Wheel → Battery)

# Engine Brake/Regeneration



The engine braking is simultaneously used to decelerate the vehicle and to charge up the high-voltage battery.

(Wheel → Engine & Battery)

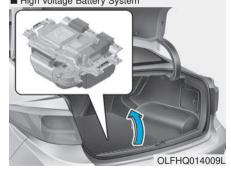
#### SAFETY PRECAUTIONS FOR HYBRID SYSTEM

# **High Voltage Battery System**

#### ■ HPCU (Hybrid Power Control Unit)



■ High Voltage Battery System



# **A WARNING**

Never touch orange colored or high voltage labeled components, including wires, cables, and connections. When the insulators or covers are damaged or removed, severe injury or death from electrocution may occur.

## **A** WARNING

While replacing the fuses in the engine compartment, never touch the HPCU. The HPCU carries high voltage. Touching the HPCU may result in electrocution, serious injury, or death.

# **A WARNING**

In the hybrid system, the hybrid battery uses high voltage to operate the motor and other components. This high voltage hybrid battery system can be very dangerous. Never touch the hybrid system. When you touch the hybrid battery system, serious injury or death may occur.

# **A** CAUTION

- Do not pile up any items in an area behind the high voltage battery. In a crash, the battery may become unstable, or its performance may degrade.
- Do not apply strong force nor pile up any items above the trunk. Such an attempt may distort the high voltage battery case, causing a safety problem or degrading the performance.
- Be careful when loading inflammable liquid in trunk. It could cause operational and safety degradation if the liquid leaks and flows in high voltage battery.



#### **A** WARNING

- Do not disassemble the high voltage motor connector. The high voltage motor connector may contain residual high voltage. Coming in contact with high voltage may result in death or serious injury.
- Your vehicle's hybrid system should only be inspected or repaired by an authorized HYUNDAI dealer.

#### **A** WARNING

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

#### SAFETY PRECAUTIONS FOR HYBRID SYSTEM (CONT.)

## **A WARNING**

Never assemble or disassemble the high voltage battery system.

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

### **A** WARNING

- Never use the package modules (high voltage battery, inverter and converter) for any other purpose.
- Do not use an unauthorized battery charger to charge the high voltage battery. Doing so may result in death or serious injury.
- Never place the high voltage system near or in a fire.
- Never drill into or strike the package module. Otherwise, it may be damaged. An electric shock may occur, resulting in serious injury or death.

#### NOTICE

- When the vehicle is paint baked, do not bake over 30 minutes in 158°F (70°C) or 20 minutes in 176°F (80°C) degree.
- Do not wash the engine compartment, using water. Water may cause an electric shock and may damage electronic components.

#### **A** WARNING

This hybrid vehicle uses the hybrid battery system inverter and converter to generate high voltage. High voltage in the hybrid battery system is very dangerous and may cause severe burns and electric shock. This may result in serious injury or death.

- For your safety, never touch, replace, disassemble or remove the hybrid battery system including components, cables and connectors. Severe burns or electric shock may result in serious injury or death when you fail to follow this warning.
- When the hybrid battery system operates, the hybrid battery system can be hot. Always be careful because burns or electric shock may be caused by high voltage.

(Continued)

## (Continued)

 Do not drop water or liquid on to HPCU, HSG, motor and fuses. The hybrid system components are covered. If you drop water or liquid on to hybrid system components, it may result in electric shock.

# Information

Gradual capacity reduction of the high voltage battery.

The high voltage Battery capacity gradually reduces with time and use. This is natural characteristic of the high voltage batteries. The extent at which capacity is reduced changes drastically depending on the environment(ambient temperature, etc.) and usage conditions such as how the vehicle is driven and how the high voltage battery is charged. Reduction of the high voltage battery capacity is not covered under warranty.

# SAFETY PRECAUTIONS FOR HYBRID SYSTEM (CONT.)

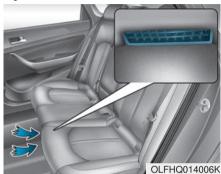
## Safety Plug



## **A** DANGER

Never touch the safety plug. The safety plug is attached to high voltage hybrid battery system. Touching the safety plug will result in death or serious injury. Service personnel should follow procedures in service manual.

# High Voltage Battery Air Intake Hybrid Vehicle



The high-voltage battery air intake is located on the bottom of the rear seats. The air intake cools down the high-voltage battery. When the high-voltage battery air intake is blocked, the high-voltage battery may be overheated and the vehicle performance may become limited and set a hybrid warning lamp. Do not obstruct the air intake with any other objects.

## Plug-in Hybrid Vehicle



The high-voltage battery air intake is located on the left side of the rear seats. The air intake cools down the high-voltage battery.

When the high-voltage battery air intake is blocked, the high-voltage battery may be overheated and the vehicle performance may become limited and set a hybrid warning lamp. Do not obstruct the air intake with any other objects.

#### **A** WARNING

- Never clean the air intake of the hybrid battery with a wet cloth. If any water enters in the air intake of the hybrid battery, the hybrid battery may cause an electric shock, serious damage, injury or death.
- The hybrid battery is composed of lithium-ion polymer.
   If the hybrid battery is improperly handled, it is dangerous to the environment. Also it may cause electrical shock and severe burns, resulting in serious injury or death.
- Do not spill liquid over the air intake of the hybrid battery. Doing so is very dangerous. It may cause electric shock or serious injury.
- Do not cover the air intake with objects.

(Continued)

#### (Continued)

- Do not put any objects into the air intake of the hybrid battery. Doing so may cause loss of air-intake volume to the hybrid battery. When the air intake is blocked with any objects, immediately contact your HYUNDAI dealer.
- Never place a container of liquid on or near the air intake. If the liquid spills, the hybrid battery located in the trunk may be damaged.
- Secure all loads in the trunk to prevent them from being tossed about before driving. If a sharp or heavy loads' impacts or pierce the interior trunk wall, the hybrid battery system may be damaged, deteriorating its performance.

# Information

Clean the air intake for the hybrid battery with a dry cloth on a regular basis.

#### SAFETY PRECAUTIONS FOR HYBRID SYSTEM (CONT.)

#### If an accident occurs

# **A** WARNING

- For your safety, do not touch high voltage cables, connectors and package modules. High voltage components are orange in color.
- Exposed cables or wires may be visible inside or outside of the vehicle. Never touch the wires or cables, because it can cause an electrical shock, injury or death may occur.
- Any gas or electrolyte leakage from your vehicle is not only poisonous but also flammable. Upon witnessing one of those, open the windows, and remain a safe distance from the vehicle out of the road.

Immediately contact an authorized HYUNDAI dealer and advise them that a hybrid vehicle is involved.

(Continued)

#### (Continued)

 When the vehicle is severely damaged, remain a safe distance of 50 feet (15 meter) or more between your vehicle and other vehicles/flammables.

#### **A** WARNING

If a small scale fire occurs, use a fire extinguisher (ABC, BC) that is meant for electrical fires. If it is impossible to extinguish the fire in the early stage, remain a safe distance from the vehicle and immediately call 911. Also, advise them that a hybrid vehicle is involved.

If the fire spreads to the high voltage battery, large amount of water is needed to put out the fire. Using small amount of water or fire extinguishers not meant for electrical fires could cause serious injury or death from electrical shocks.

#### **A** WARNING

When a submersion in water occurs:

When your vehicle is flooded in water, a high-voltage battery may cause shock or fires. Thus, turn the hybrid system OFF, take the key in your possession and escape to a safe place. Never attempt physical contact with your flooded vehicle.

Immediately contact an authorized HYUNDAI dealer and advise them that a hybrid vehicle is involved.

# When the hybrid vehicle shuts off

When the high voltage battery is discharged, when the 12-volt battery is discharged, or when the fuel tank is empty, the hybrid system may not operate while driving. When the Hybrid system does not operate, do the followings:

- Gradually reduce the vehicle speed. Pull over your vehicle off the road in a safe area.
- 2.Locate the shift lever in P (Park).
- 3. Turn ON the hazard warning flashers.
- 4.Turn OFF the Engine Start/Stop button, and try to start the hybrid system, while depressing the brake pedal and pressing the Engine Start/Stop button.

5. When the hybrid system still does not operate, refer to "EMERGENCY STARTING" in the chapter 6.

Before jump-starting the vehicle, check the fuel level and the exact procedure to jump start. For further details, refer to "EMERGENCY STARTING" in the chapter 6. When the fuel level is low, do not attempt to drive the vehicle only with the battery power. The high voltage battery may be discharged, and the hybrid system will turn OFF.