

# i30 N

## ***OWNER'S MANUAL***

Operation  
Maintenance  
Specifications

**The information in this Owner's Manual is current at the time of publication. However, the right to amend specifications without notice or obligation to incorporate such amendments into vehicles already produced is reserved.**

**This manual applies to all models of this vehicle and includes descriptions and explanations of optional as well as standard equipment. As a result, some of the equipment operating descriptions referred to may not apply to the particular vehicle with which this manual is supplied.**

**We recommend that you contact a HYUNDAI authorised repairer for information regarding current standard and optional equipment levels.**

## **CAUTION: MODIFICATIONS TO ORIGINAL VEHICLE SPECIFICATION**

Modification to the original vehicle specification may invalidate the manufacturers warranty and may adversely affect the safety and durability of the vehicle.

Components which are subject to modification or are added to the original vehicle specification without the express approval of the manufacturer and result in consequential loss or damage are not covered by the vehicle manufacturers warranty.

Particular attention is drawn to the fitment of replacement road wheels having a different specification to those installed in production. The electric power assisted steering system is specifically programmed to operate only with the road wheels fitted during production. The installation of alternative specification road wheels may result in the replacement road wheels fouling the vehicle body resulting in tyre damage and compromised safety. The installation of after market wheels on vehicles equipped with TPMS may result in wheel balancing difficulties or malfunction of the TPMS system.

We recommend that you contact a HYUNDAI authorised repairer before non original specification road wheels are installed.

## **TWO WAY RADIO INSTALLATION**

This vehicle is fitted with electronically controlled fuel injection or other micro processor controlled equipment. It is possible for incorrectly installed two way radio equipment including mobile telephones to adversely affect these systems.

Before radio equipment of this kind is installed, we recommend that you contact your HYUNDAI authorised repairer for recommendation regarding the suitability of the particular radio equipment concerned and the recommended method of installation and equipment location. Incorrectly installed or unsuitable equipment which gives rise to incorrect functioning of or damage to electronic vehicle components will not fall within the scope of the vehicle manufacturers warranty.

## SAFETY AND VEHICLE DAMAGE WARNING

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

### DANGER

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

### WARNING

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

### CAUTION

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

### **NOTICE**

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



## FOREWORD

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

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

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

This manual also contains information on maintenance designed to enhance safe operation of the vehicle. It is recommended that all service and maintenance on your car be performed by a HYUNDAI authorised repairer.

HYUNDAI authorised repairers are prepared to provide high-quality service, maintenance and any other assistance that may be required.

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

## HYUNDAI MOTOR COMPANY

### CAUTION

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

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## HOW TO USE THIS MANUAL

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

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

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

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

## SAFETY MESSAGES

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

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

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

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



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

### DANGER

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

### WARNING

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



## CAUTION

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

## NOTICE

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

## FUEL REQUIREMENTS

### Petrol engine

#### *Unleaded*

For the optimal vehicle performance, we recommend you use unleaded petrol which has an octane rating of RON (Research Octane Number) 95 / AKI (Anti Knock Index) 91 or higher.

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

## NOTICE

**NEVER USE LEADED FUEL.** The use of leaded fuel is detrimental to the catalytic converter and will damage the engine control system's oxygen sensor and affect emission control.

Also, severe wear and crack of piston ring, valve, etc. may occur and knocking noise may be heard from your engine.

Never add any fuel system cleaning agents to the fuel tank other than what has been specified (We recommend that you consult a HYUNDAI authorised repairer for details.)



## WARNING

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

### ***Petrol containing alcohol and methanol***

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

Do not use gasohol containing more than 10% ethanol, and do not use petrol 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.

Vehicle damage or driveability problems may not be covered by the manufacturer's warranty if they result from the use of:

1. Gasohol containing more than 10% ethanol.
2. Petrol or gasohol containing methanol.
3. Leaded fuel or leaded gasohol.

### **CAUTION**

**Never use fuel which contains methanol. Discontinue use of any petrol product which impairs drivability.**

### ***Other fuels***

Using fuel additives such as:

- Silicone fuel additive
- MMT (Manganese, Mn) fuel additive
- Ferrocene (iron-based) fuel additive
- Other metallic-based fuel additives

May result in cylinder misfire, poor acceleration, engine stalling, engine plugging, heavy knocking noise, damage to the catalyst, or abnormal corrosion, and may cause damage to the engine resulting in a reduction in the overall life of the powertrain. 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.**

### ***Use of MTBE***

HYUNDAI recommends avoiding fuels containing MTBE (Methyl Tertiary Butyl Ether) over 15.0% vol. (Oxygen Content 2.7% weight) in your vehicle.

Fuel containing MTBE over 15.0% vol. (Oxygen Content 2.7% weight) may reduce vehicle performance and produce vapour lock or hard starting.



### **CAUTION**

**Your New Vehicle Limited Warranty may not cover damage to the fuel system and any performance problems that are caused by the use of fuels containing methanol or fuels containing MTBE (Methyl Tertiary Butyl Ether) over 15.0% vol. (Oxygen Content 2.7% weight.)**

### ***Do not use methanol***

Fuels containing methanol (wood alcohol) should not be used in your vehicle. This type of fuel can reduce vehicle performance and damage components of the fuel system, engine control system and emission control system.

### ***Fuel Additives***

HYUNDAI recommends that you use unleaded petrol which has an octane rating of RON (Research Octane Number) 95 / AKI (Anti Knock Index) 91 or higher.

For customers who do not use good quality petrols including fuel additives regularly, and have problems starting or the engine does not run smoothly, adding one bottle of additives to the fuel tank is recommended according to the maintenance schedule.

Additives are available from your HYUNDAI authorised repairer 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 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 vehicle regulations.

In addition, damage or performance problems resulting from any modification may not be covered under warranty.

- If you use unauthorised electronic devices, it may cause the vehicle to operate abnormally, wire damage, battery discharge and fire. For your safety, do not use unauthorised electronic devices.

## VEHICLE BREAK-IN PROCESS

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.
- Whilst driving, avoid sudden acceleration.
- 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.
- Fuel economy and engine performance may vary depending on vehicle break-in process and be stabilized after 4,000 miles (6,000 km). New engines may consume more oil during the vehicle break-in period.
- Don't tow a trailer during the first 1,200 miles (2,000 km) of operation.

## RETURNING USED VEHICLES

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

You can get detailed information from your national HYUNDAI homepage.



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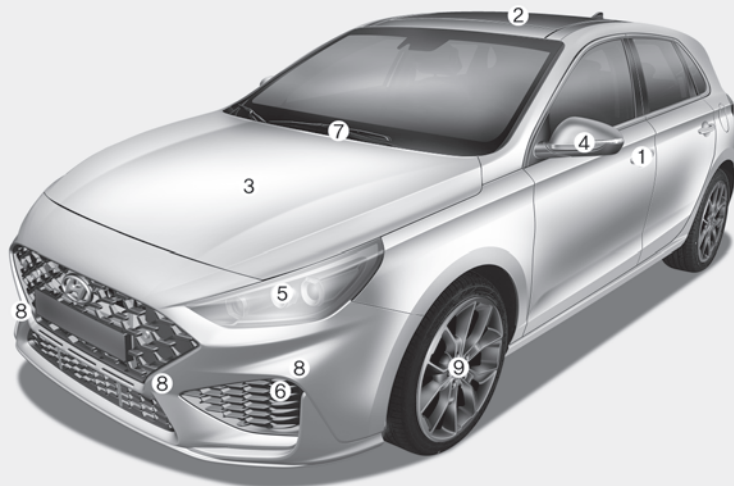


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The actual shape may differ from the illustration.

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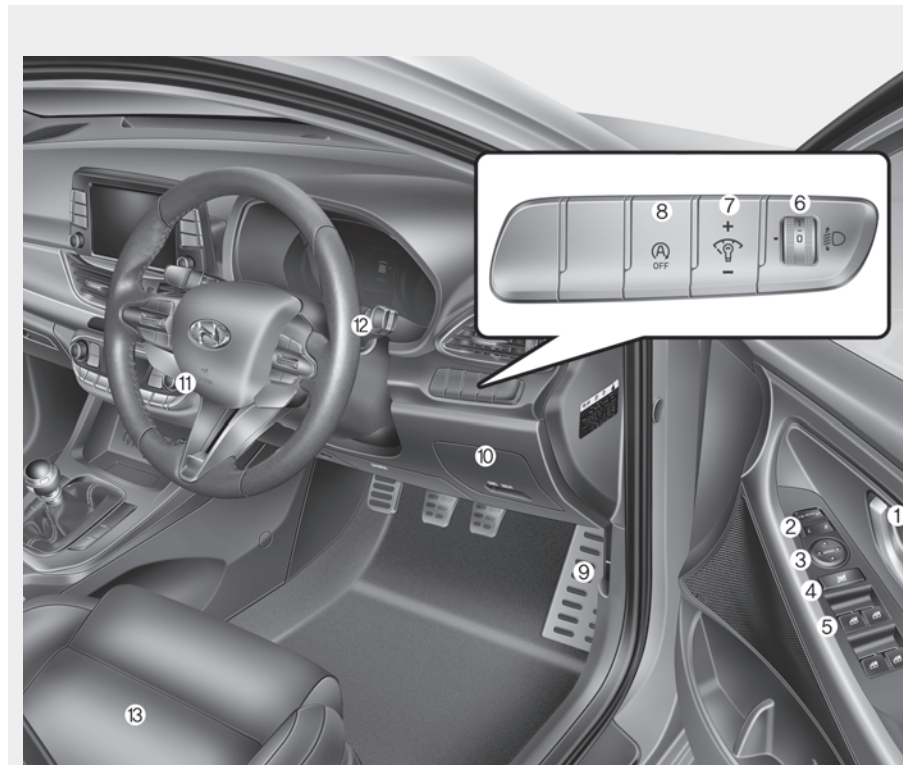


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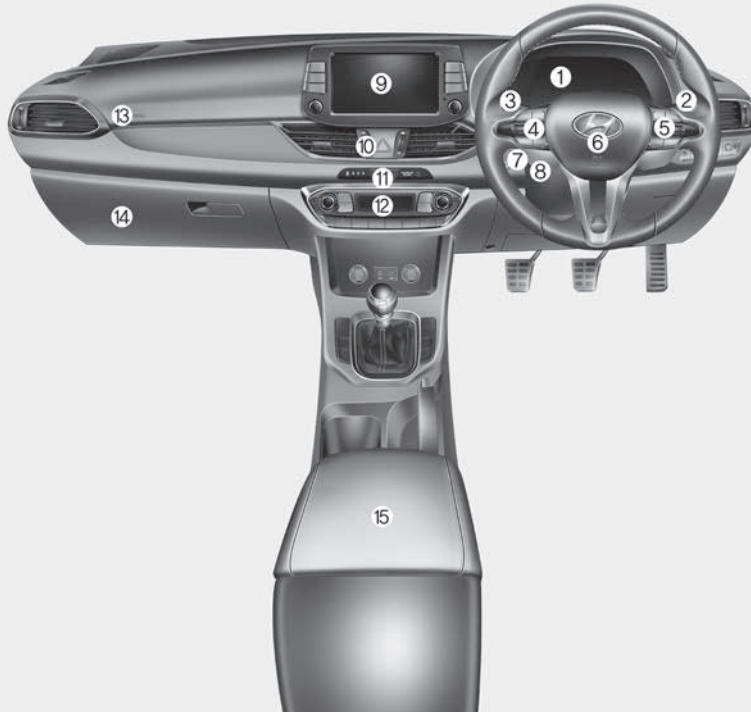


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The actual shape may differ from the illustration.

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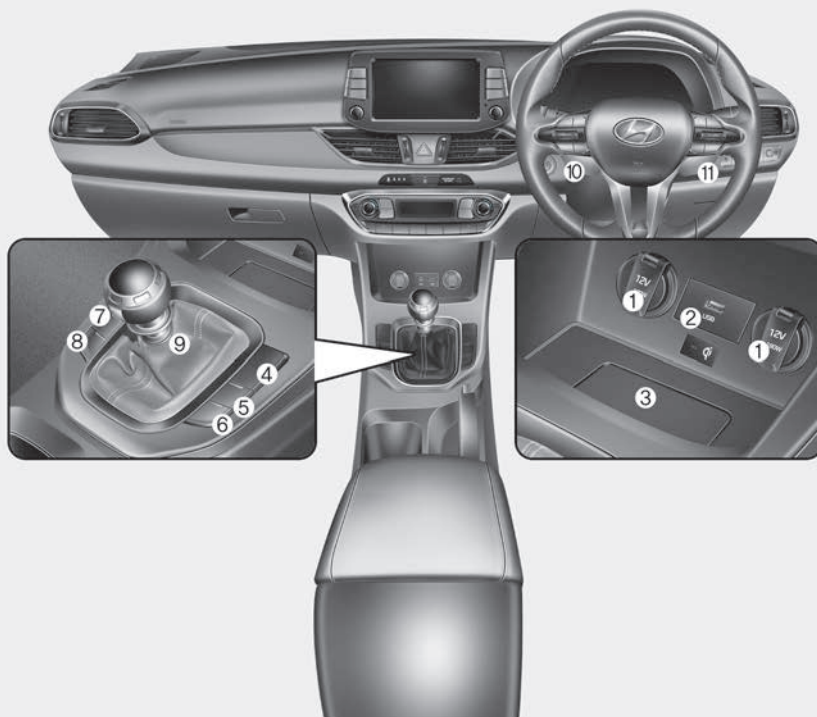


The actual shape may differ from the illustration.

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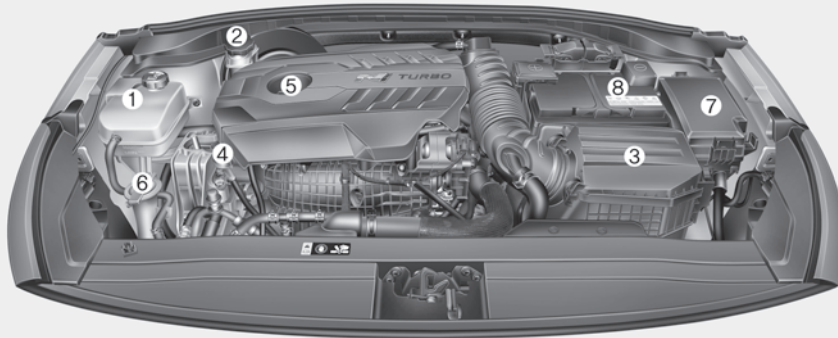


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The actual shape may differ from the illustration.

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The actual engine compartment 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 System. Larger children should use a booster seat with the lap/shoulder belt until they can use the seat belt properly without a booster seat.

#### Air bag hazards

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

#### Driver distraction

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

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

- ALWAYS set up your mobile devices (for example, MP3 players, phones, navigation units, etc.) when your vehicle is parked or safely stopped.
- ONLY use your mobile device when allowed by laws and conditions permit safe use. NEVER text or email whilst driving. Most countries have laws prohibiting drivers from texting. Some countries and cities also prohibit drivers from using handheld phones.

- 
- NEVER let the use of a mobile device distract you from driving. You have a responsibility to your passengers and others on the road to always drive safely, with your hands on the wheel as well as your eyes and attention on the road.

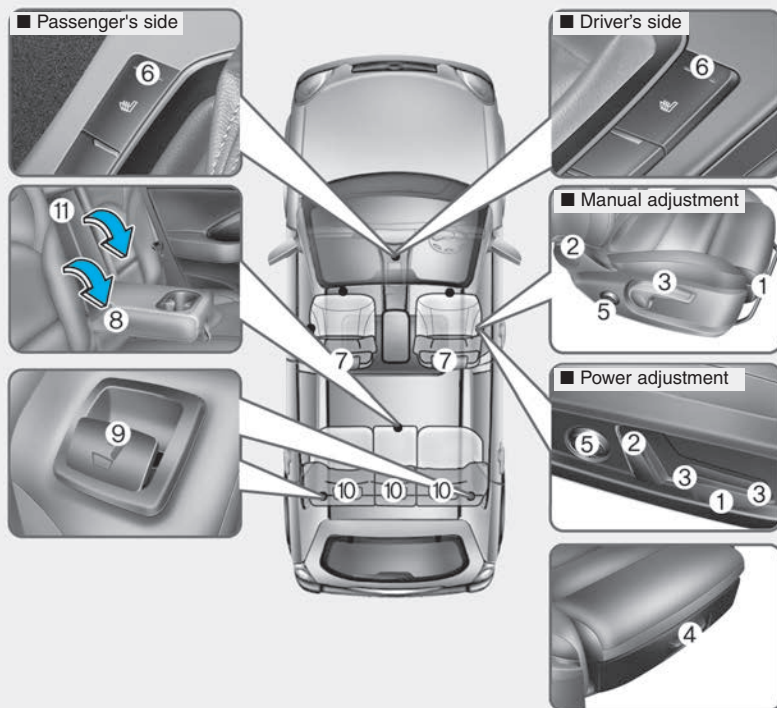
### Control your speed

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

### Keep your vehicle in safe condition

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

## SEATS



### Front seat

- (1) Forward and backward
- (2) Seatback angle
- (3) Seat height\*
- (4) Seat cushion tilt/seat height
- (5) Lumbar support\*
- (6) Seat warmer\*
- (7) Head restraint

### Rear seat

- (8) Armrest\*
- (9) Seatback folding
- (10) Head restraint
- (11) Carrying long/narrow cargo\*

\* : if equipped

## Safety precautions

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

### WARNING

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

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

## Air bags

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

### WARNING

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

- **Adjust the driver's seat as far to the rear as possible whilst maintaining the ability to control the vehicle.**
- **Adjust the front passenger seat as far to the rear as possible.**

**(Continued)**

**(Continued)**

- **Hold the steering wheel by the rim with your hands at the 9 o'clock and 3 o'clock positions to minimise the risk of injuries to your hands and arms.**
- **NEVER place anything or anyone between you and the air bag.**
- **Do not allow the front passenger to place feet or legs on the dashboard to minimise the risk of leg injuries.**

### Seat belts

Always fasten your seat belt before starting any trip.

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

#### WARNING

Take the following precautions when adjusting your seat belt:

- NEVER use one seat belt for more than one occupant.
- Always position the seatback upright with the lap portion of the seat belt snug and low across the hips.
- NEVER allow children or small infants to ride on a passenger's lap.

(Continued)

(Continued)

- 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

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

#### WARNING

Take the following precautions when adjusting your seat:

- NEVER attempt to adjust the seat whilst 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.

(Continued)

(Continued)

- Do not allow anything to interfere with the normal position and proper locking of the seatback.
- Do not place a cigarette lighter on the floor or seat. When you operate the seat, gas may exit out of the lighter causing a fire.
- Use extreme caution when picking up small objects trapped under the seats or between the seat and the centre console. Your hands might be cut or injured by the sharp edges of the seat mechanism.
- If there are occupants in the rear seats, be careful whilst adjusting the front seat position.

 **CAUTION**

To prevent injury:

- Do not adjust your seat whilst 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 whilst the seat is moving.

*Interior care alcantara  
(if equipped)*

**NOTICE**

remove the Alcantara's surface dust, dust off it using a dry cloth or soft brush.

If it gets dirty, wipe it with either a clean white cloth or a slightly water wet sponge and dry it completely.

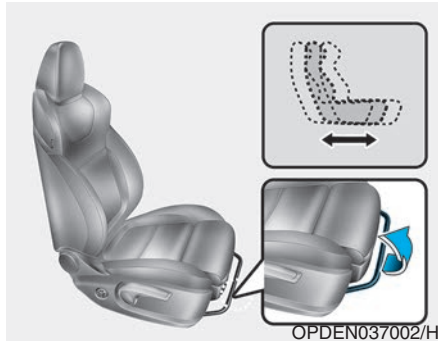
In case of severe contamination, use the Alcantara exclusive cleaner.

If stains occur, remove them with pure ethyl alcohol or water and dry completely before use.

Alcantara is a soft microfiber textile which requires a special care and after higher mileage or intensive usage natural wear may appear. As this condition is similar to other brands this phenomena is not claimable under warranty.



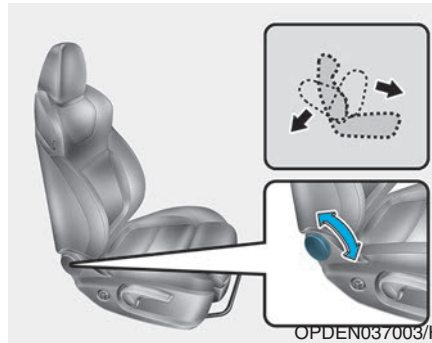
### Manual adjustment



#### 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.
3. Release the lever and make sure the seat is locked in place. Move forward and rearward without using the lever. If the seat moves, it is not locked properly.



#### Seatback angle

To recline the seatback:

1. Roll the seatback knob rearward.
2. Adjust the seatback to the position you desire.

### Reclining seatback

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

#### **⚠ WARNING**

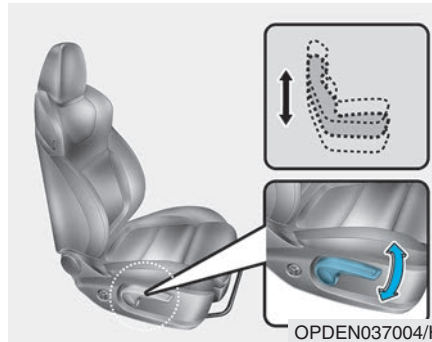
**NEVER** ride with a reclined seatback when the vehicle is moving.

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

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

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

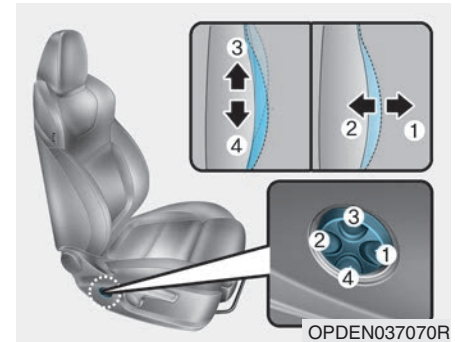
The more the seatback is reclined, the greater chance the passenger's hips will slide under the lap belt or the passenger's neck will strike the shoulder belt.



#### Seat height (if equipped)

To change the height of the seat cushion:

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



#### Lumbar support (if equipped)

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.
- To move the support position up or down, press switch (3) or (4). 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).

### Power adjustment

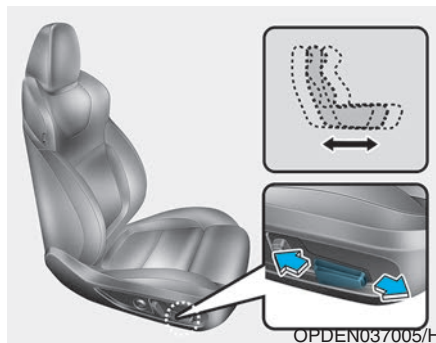
#### **⚠ WARNING**

**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:**

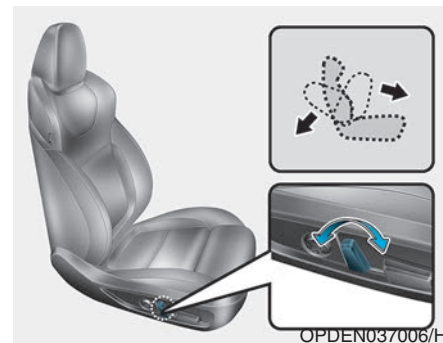
- **Always stop adjusting the seats when the seat has been adjusted as far forward or rearward as possible.**
- **Do not adjust the seats longer than necessary when the engine is turned off. This may result in unnecessary battery drain.**
- **Do not operate two or more seats at the same time. This may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



#### **Forward and rearward adjustment**

To move the seat forward or rearward:

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



#### **Seatback angle**

To recline the seatback:

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

## Reclining seatback

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

### WARNING

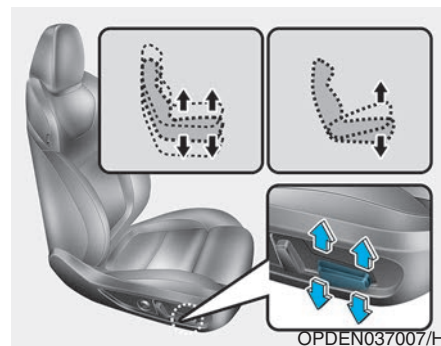
**NEVER ride with a reclined seatback when the vehicle is moving.**

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

**Driver and passengers should always sit well back in their seats with the seatbacks upright and should be belted properly.**

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

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



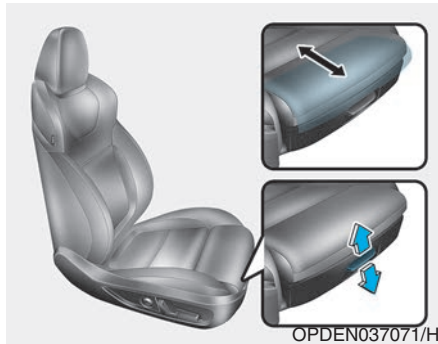
## Seat height (if equipped)

To change the height of the seat cushion:

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

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

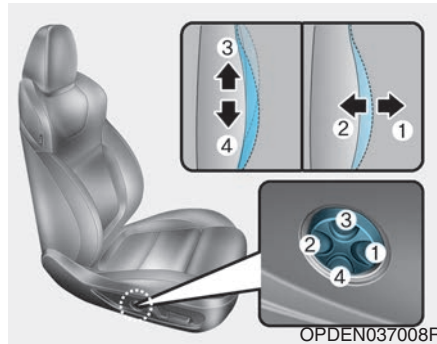
2. Release the switch once the seat reaches the desired position.



### Seat cushion length (if equipped)

To change the length of the seat cushion:

1. Pull up the lever to lengthen the cushion length or pull down the lever to shorten the cushion length.
2. Release the switch once the cushion reaches the desired position.

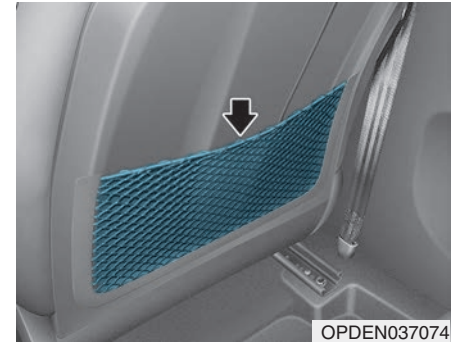


### Lumbar support (if equipped)

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.
- To move the support position up or down, press switch (3) or (4). 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).

### Seatback pocket (if equipped)



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

### CAUTION

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

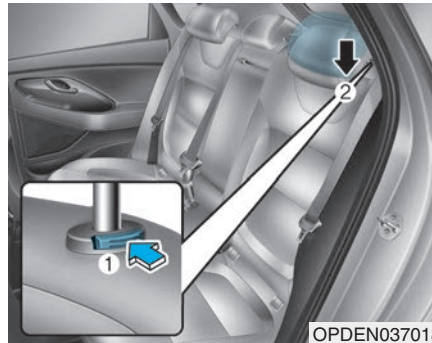
## Rear seats

### ***Folding the rear seat***

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

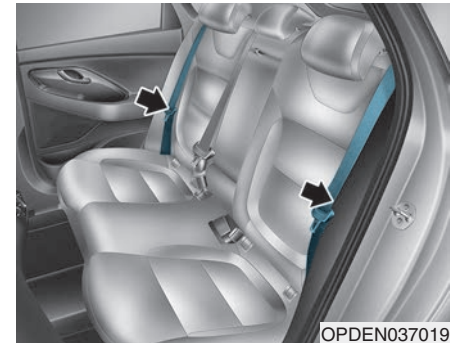
#### **⚠ WARNING**

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

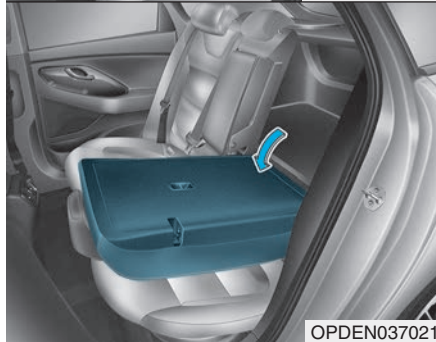
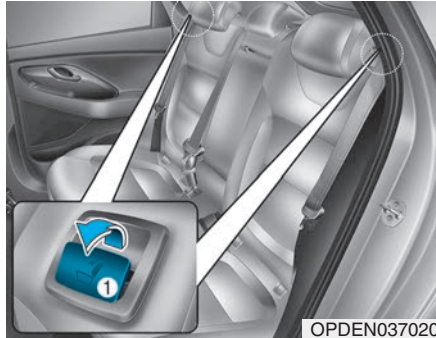


To fold down the rear seatback:

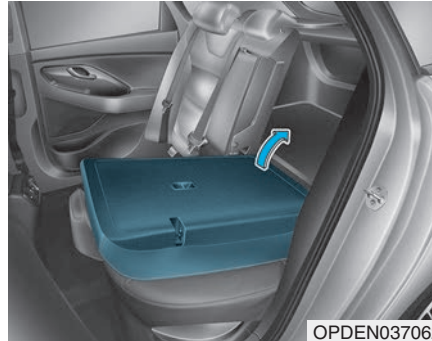
1. Set the front seatback to the upright position and if necessary, slide the front seat forward.
2. Lower the rear head restraints to the lowest position.



3. Locate the seatbelt toward the outboard position before folding down the seatback to avoid the seatbelt system interfering with the seatback.



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



5. To use the rear seat, lift and push the seatback rearward. Push the seatback firmly until it clicks into place. Make sure the seatback is locked in place.

**⚠ WARNING**

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



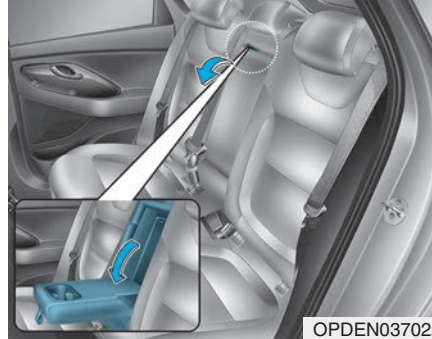
**⚠ WARNING**

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

**⚠ WARNING**

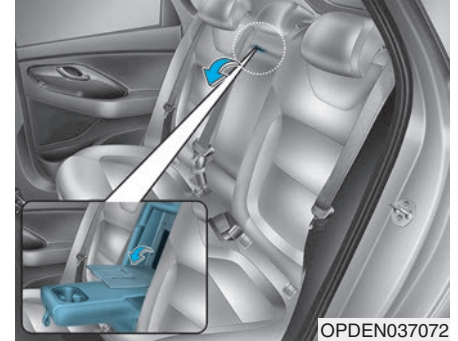
Make sure the engine is off, the shift lever is in P (Park), and the parking brake is securely applied whenever loading or unloading cargo. Failure to take these steps may allow the vehicle to move if the shift lever is inadvertently moved to another position.

**Armrest (if equipped)**



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

**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 luggage compartment when closed.

1. Pull the armrest down.
2. Pull the cover down whilst pushing the release lever down.



**⚠ 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 whilst driving.**

**⚠ 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.**

**Head restraint**

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

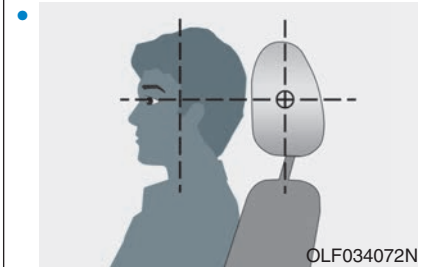
**⚠ WARNING**

**To help 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 restraint 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 seatback.**
- **Make sure the head restraint locks into position after adjusting it.**

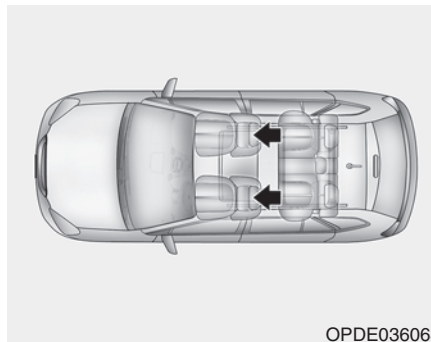
**NOTICE**

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

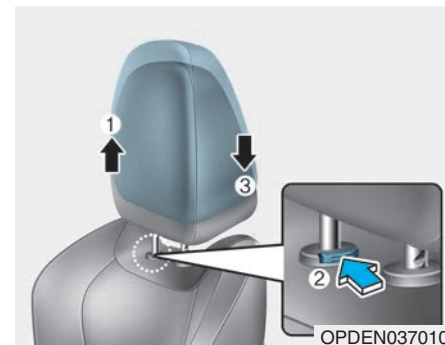
**CAUTION**

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

**Front seat head restraints**



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



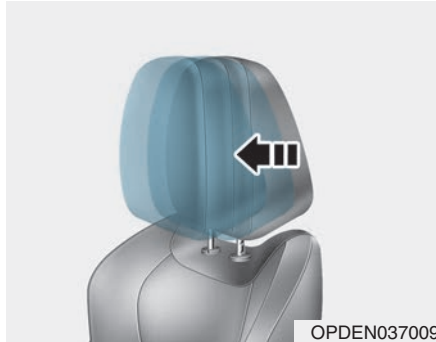
**Adjusting the height up and down**

To raise the head restraint:

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

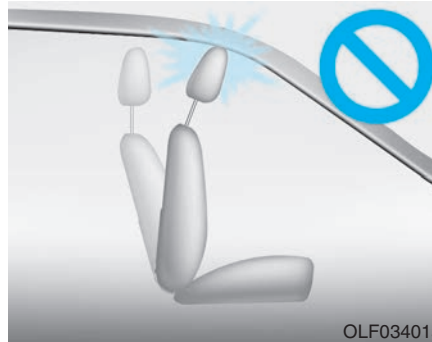
To lower the head restraint:

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



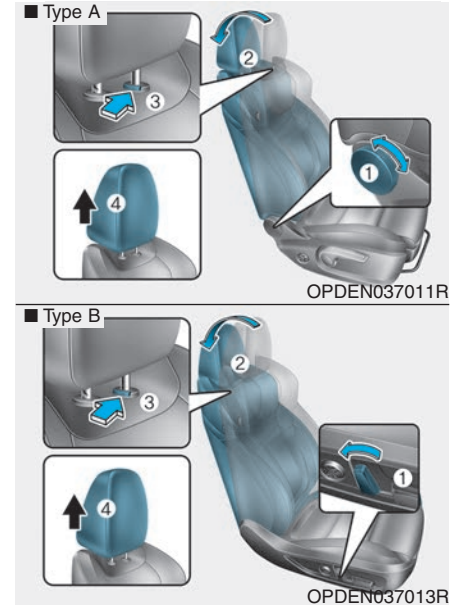
### Forward and rearward adjustment

The head restraint may be adjusted forward to 3 different positions by pulling the head restraint forward to the desired detent. To adjust the head restraint to its furthest rearwards position, pull it fully forward to the farthest position and release it.



### NOTICE

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



### Removal/Reinstall

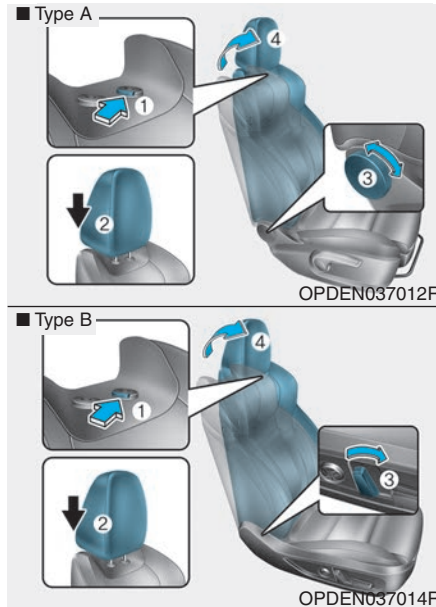
To remove the head restraint:

1. Recline the seatback (2) using the seatback angle knob or switch (1).
2. Raise the head restraint as far as it can go.

3. Press the head restraint release button (3) whilst pulling the head restraint up (4).

**⚠ WARNING**

**NEVER** allow anyone to travel in a seat with the head restraint removed.



4. Recline the seatback (4) using the seatback angle knob or switch (3).

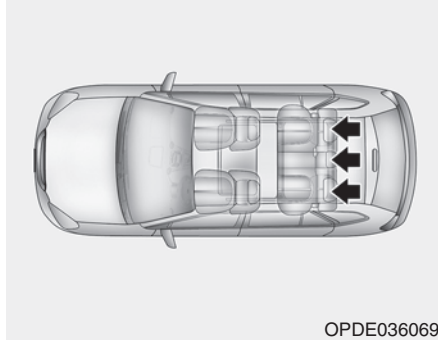
**⚠ WARNING**

**Always** make sure the head restraint locks into position after reinstalling and adjusting it properly.

To reinstall the head restraint :

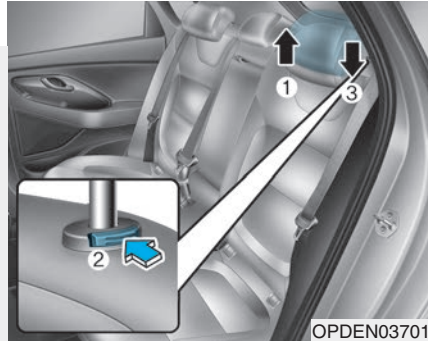
1. Recline the seatback.
2. Put the head restraint poles (2) into the holes whilst pressing the release button (1).
3. Adjust the head restraint to the appropriate height.

### Rear seat head restraints



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The rear seats are equipped with head restraints in all the seating positions for the passenger's 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:

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

### Seat warmers

#### Front seat warmers (if equipped)

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

#### WARNING

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

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

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

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

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- People taking medication that can cause drowsiness or sleepiness.

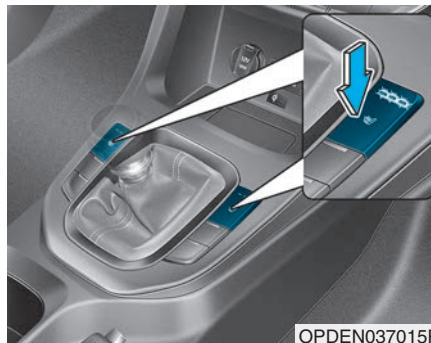
### ⚠ WARNING

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

### NOTICE

To prevent damage to the seat warmers and seats:

- Never use a solvent such as paint thinner, benzene, alcohol or petrol 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.

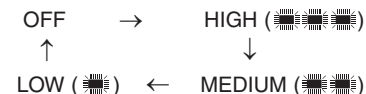


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Whilst the engine is running, push either of the switches to warm the driver's seat or front passenger's seat.

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 :



- 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 ignition switch is placed to the ON position.

### **i** Information

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

## 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 countries require all occupants of a vehicle to wear seat belts.

#### WARNING

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

- **Children under the age of 13 should be properly restrained in the rear seats.**
- **Never allow children to ride in the front passenger seat, unless the air bag is deactivated. If a child is seated in the front passenger seat, move the seat as far back as possible. And the child must always be restrained in the seat properly.**
- **NEVER allow an infant or child to be carried on an occupant's lap.**
- **NEVER ride with the seatback reclined when the vehicle is moving.**
- **Do not allow children to share a seat or seat belt.**

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- **Do not wear the shoulder belt under your arm or behind your back.**
- **Never wear a seat belt over fragile objects. If there is a sudden stop or impact, the seat belt can damage it.**
- **Do not use the seat belt if it is twisted. A twisted seat belt will not protect you properly in an accident.**
- **Do not use a seat belt if the webbing or hardware is damaged.**
- **Do not latch the seat belt into the buckles of other seats.**
- **NEVER unfasten the seat belt whilst driving. This may cause loss of vehicle control resulting in an accident.**
- **Make sure there is nothing in the buckle interfering with the seat belt latch mechanism, because any materials in the buckle can cause the seat belt not to be fastened securely.**

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- No modifications or additions should be made by the user which will either prevent the seat belt adjusting devices from operating to remove slack, or prevent the seat belt assembly from being adjusted to remove slack.

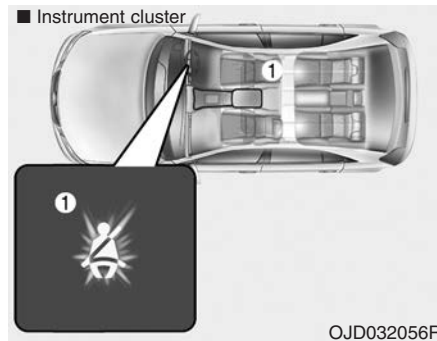
### ⚠ WARNING

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

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

## Seat belt warning light

### Seat belt warning



### Driver's seat belt warning

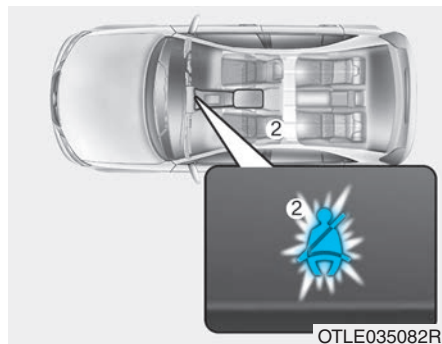
As a reminder to the driver, the seat belt warning light will illuminate for approximately 6 seconds each time you turn the ignition switch ON regardless of belt fastening.

If the seat belt is not fastened when the ignition switch is turned ON or if it is disconnected after the ignition switch is turned ON, the seat belt warning light will illuminate until the belt is fastened.

If you start to drive without the seat belt fastened or you unfasten the seat belt when you drive under 12 mph (20 km/h), the corresponding warning light will continue to illuminate until you fasten the seat belt.

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





### Front passenger's seat belt warning

As a reminder to the front passenger, the front passenger's seat belt warning lights will illuminate for approximately 6 seconds each time you turn the ignition switch ON regardless of belt fastening.

If the seat belt is not fastened when the ignition switch is turned ON or if it is disconnected after the ignition switch is turned ON, the seat belt warning light will illuminate until the belt is fastened.

If you start to drive without the seat belt fastened or you unfasten the seat belt when you drive under 12 mph (20 km/h), the corresponding warning light will continue to illuminate until you fasten the seat belt.

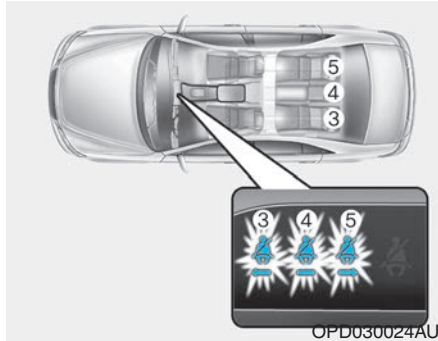
If you continue to drive without the seat belt fastened or you unfasten the seat belt when you drive over 12 mph (20 km/h), the seat belt warning chime will sound for approximately 100 seconds and the corresponding warning light will blink.

### WARNING

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

### Information

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



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### Rear passenger's seat belt warning

As a reminder to the rear passengers, the rear passenger's seat belt warning lights will illuminate for approximately 6 seconds each time you turn the ignition switch ON regardless of belt fastening.

And then, the rear corresponding seat belt warning light will illuminate for approximately 35 seconds, if any of the following occurs:

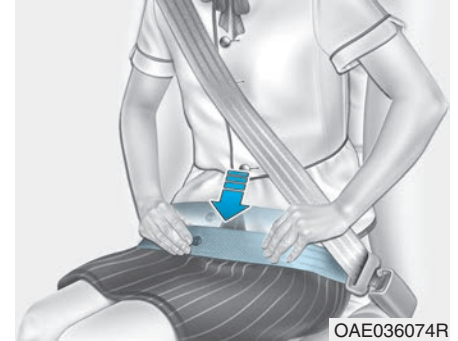
- You drive over 5 mph (9km/h) when the rear seat belt is not fastened.
- The rear seat belt is disconnected when driving under 12 mph (20 km/h).

If the rear seat belt is fastened, the warning light will turn off immediately.

If the rear seat belt is disconnected when you drive over the 12 mph (20 km/h), the corresponding seat belt warning light will blink and warning chime will sound for 35 seconds.

But, if the rear passenger's lap/shoulder belt is/are connected and disconnected twice within 9 seconds after the belt is fastened, the corresponding seat belt warning light will not operate.

### Seat belt restraint system



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#### **⚠ WARNING**

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

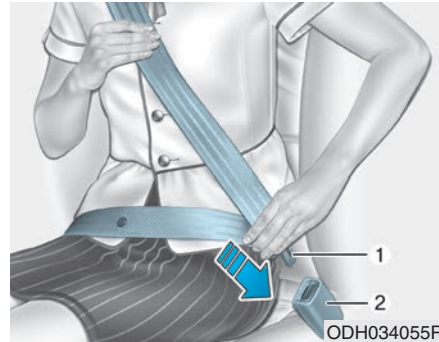
- **Position the lap portion of the seat belt as low as possible across your hips, not on your waist, so that it fits snugly. This allows your strong pelvic bones to absorb the force of the crash, reducing the chance of internal injuries.**

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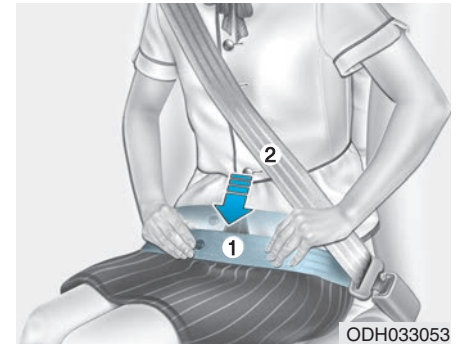
- Position one arm under the shoulder belt and the other over the belt, as shown in the illustration.
- Always position the shoulder belt anchor into the locked position at the appropriate height.
- Never position the shoulder belt across your neck or face.

### Lap/shoulder belt



#### To fasten your seat belt:

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



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

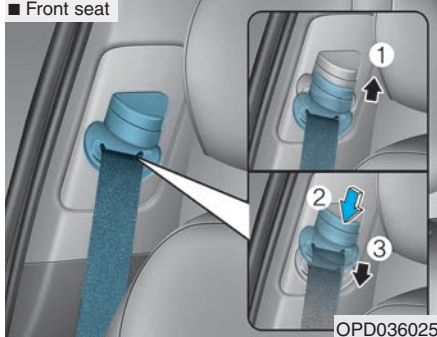
The seat belt automatically adjusts to the proper length after the lap belt portion is adjusted manually so that it fits snugly around your hips. If you lean forward in a slow, easy motion, the belt will extend and move with you. If there is a sudden stop or impact, the belt will lock into position. It will also lock if you try to lean forward too quickly.

**NOTICE**

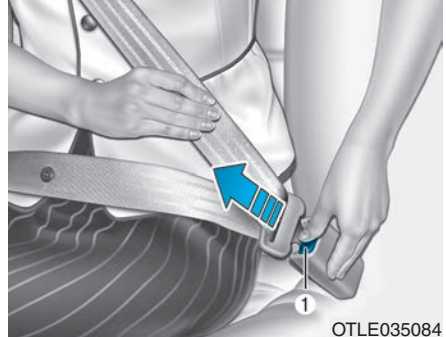
If you are not able to smoothly pull enough of the seat belt out from the retractor, firmly pull the seat belt out and release it. After release, you will be able to pull the belt out smoothly.

**Height adjustment**

You can adjust the height of the shoulder belt anchor to one of the four different positions for maximum comfort and safety. The shoulder portion should be adjusted so it lies across your chest and midway over your shoulder nearest the door, not over your neck.

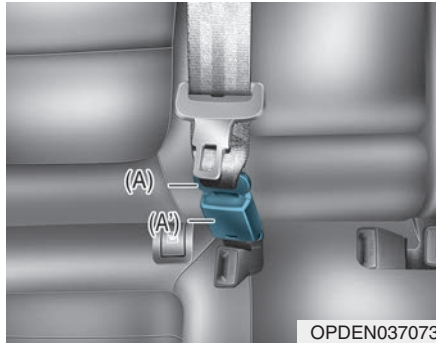


To adjust the height of the seat belt anchor, lower or raise the height adjuster into an appropriate position. To raise the height adjuster, pull it up (1). To lower it, push it down (3) whilst pressing the height adjuster button (2). Release the button to lock the anchor into position. Try sliding the height adjuster to make sure that it has locked into position.

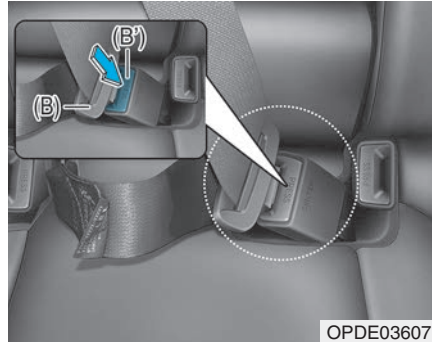


**To release your seat belt:**  
 Press the release button (1) in the locking buckle. When it is released, the belt should automatically draw back into the retractor. If this does not happen, check the belt to be sure it is not twisted, then try again.

**Rear centre seatbelt  
(3-point rear centre seat belt)**



1. Insert the tongue plate (A) into the buckle (A') until an audible “click” is heard, indicating the latch is locked. Make sure the belt is not twisted.



2. Pull the tongue plate (B) and insert it into the buckle (B') until an audible “click” is heard, indicating the latch is locked. Make sure the belt is not twisted.

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

**⚠ WARNING**

**Always have the metal tab (A) inserted into the buckle (A').**

**i Information**

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

### Pre-tensioner seat belt



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

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

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

#### WARNING

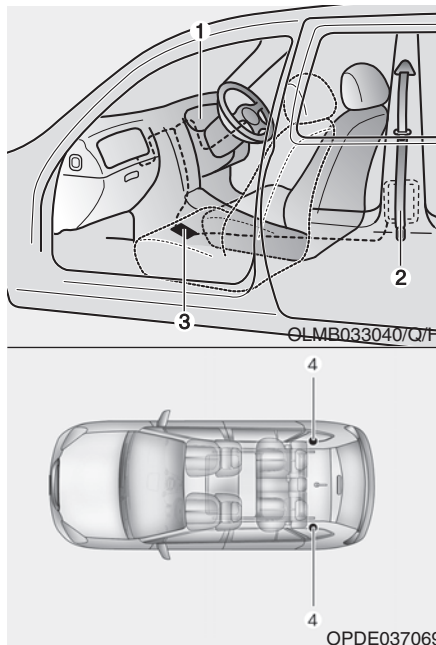
- **Always wear your seat belt and sit properly in your seat.**
- **Do not use the seat belt if it is loose or twisted. A loose or twisted seat belt will not protect you properly in an accident.**
- **Do not place anything near the buckle. This may adversely affect the buckle and cause it to function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

**⚠ WARNING**

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

**⚠ CAUTION**

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



- (3) SRS control module
- (4) Rear Retractor pre-tensioner (if equipped)

**NOTICE**

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

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

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



## **i** Information

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

## Additional seat belt safety precautions

### **Seat belt use during pregnancy**

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

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

### **⚠ WARNING**

- **Pregnant woman and patient are more vulnerable to any impacts on the abdomen during an abrupt stop or accident. If you are in an accident whilst pregnant, we recommend you consult your doctor.**

**(Continued)**

**(Continued)**

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

### **Seat belt use and children**

#### **Infant and small children**

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



 **WARNING**

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

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

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

**Larger children**

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

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

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

 **WARNING**

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

### ***Seat belt use and injured people***

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

### ***One person per belt***

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

### ***Do not lie down***

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

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

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

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

### **⚠ WARNING**

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

### **Care of seat belts**

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

### ***Periodic inspection***

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

### ***Keep belts clean and dry***

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

### ***When to replace seat belts***

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

## **CHILD RESTRAINT SYSTEM (CRS)**

**Our recommendation:  
Children always in the rear**

### **WARNING**

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

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

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

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

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

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

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

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

#### **⚠ WARNING**

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

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

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

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

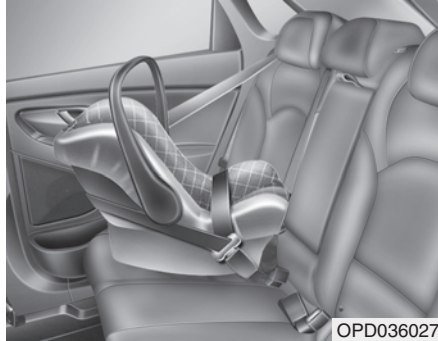
A Child Restraint System may only be installed if it was approved in accordance with the requirements of ECE-R44 or ECE-R129.

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

### **Child Restraint System types**

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

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



### Rearward-facing Child Restraint System

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

All children under the age of one year must always ride in a rearward-facing Child Restraint System. There are different types of rearward-facing Child Restraint Systems: infant-only Child Restraint Systems can only be used rearward-facing. Convertible and 3-in-1 Child Restraint Systems typically have higher height and weight limits for the rearward-facing position, allowing you to keep your child rearward-facing for a longer period of time.

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



### Forward-facing Child Restraint System

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

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

## Booster seats

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

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

## Installing a Child Restraint System (CRS)

### WARNING

**Before installing your Child Restraint System always:**

**Read and follow the instructions provided by the manufacturer of the Child Restraint System.**

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

### WARNING

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

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

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

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

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

### CAUTION

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

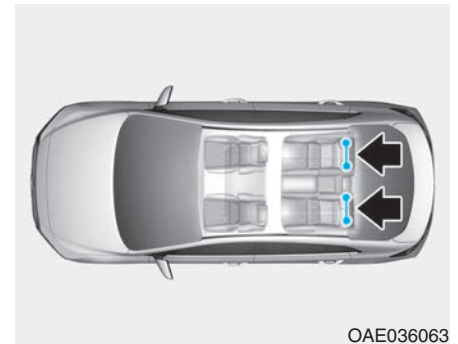
### ***ISOFIX anchorage and top-tether anchorage (ISOFIX anchorage system) for children***

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

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

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

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

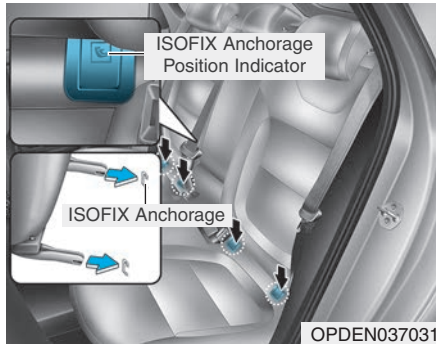



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ISOFIX anchorages have been provided in the left and right outboard rear seating positions. Their locations are shown in the illustration.

### WARNING

**Do not attempt to install a Child Restraint System using ISOFIX anchorages in the rear centre seating position. There are no ISOFIX anchorages provided for this seat. Using the outboard seat anchorages, for the CRS installation on the rear centre seating position, can damage the anchorages.**



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

To use the ISOFIX anchorages, push the upper portion of the ISOFIX anchorage cover.

### ***Securing a Child Restraint System with the “ISOFIX Anchorage System”***

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

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

### **⚠ WARNING**

**Take the following precautions when using the ISOFIX system:**

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



### Securing a Child Restraint System seat with “Top-tether Anchorage”



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



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

### WARNING

Take the following precautions when installing the top-tether:

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

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

## Suitability of each seating position for ISOFIX Child Restraint Systems according to ECE regulations - 5 Door

Mass Group	Size Class	Fixture	Vehicle ISOFIX positions			
			Front Passenger	2nd row		
				Left Hand	Centre	Right Hand
Carrycot	F	ISO/L1	N/A	X	N/A	X
	G	ISO/L2	N/A	X	N/A	X
0- : UP TO 10KG	E	ISO/R1	N/A	IL	N/A	IL
0+ : UP TO 13KG	E	ISO/R1	N/A	IL	N/A	IL
	D	ISO/R2	N/A	IL	N/A	IL
	C	ISO/R3	N/A	IL	N/A	IL
1 : 9 TO 18KG	D	ISO/R2	N/A	IL	N/A	IL
	C	ISO/R3	N/A	IL	N/A	IL
	B	ISO/F2	N/A	IUF,IL	N/A	IUF,IL
	B1	ISO/F2X	N/A	IUF,IL	N/A	IUF,IL
	A	ISO/F3	N/A	IUF,IL	N/A	IUF,IL

IUF = suitable for ISOFIX forward child restraints systems of universal category approved for use in the mass group.

IL = suitable for particular ISOFIX child restraints systems (CRS) given in the attached list. These ISOFIX CRS are those of the "specific vehicle", "restricted" or "semi-universal" categories.

X = ISOFIX position not suitable for ISOFIX child restraint system in this mass group and/or this size class.

A - ISO/F3: Full-Height Forward-Facing toddler Child Restraint System (height 720mm)

B - ISO/F2: Reduced-Height Forward-Facing toddler Child Restraint System (height 650mm)

B1 - ISO/F2X: Reduced-Height Second Version Back Surface Shape Forward-Facing toddler Child Restraint System (height 650mm)

C - ISO/R3: Full-Size Rearward-Facing toddler Child Restraint System

D - ISO/R2: Reduced-Size Rearward-Facing toddler Child Restraint System

E - ISO/R1: Infant-Size Rearward-Facing Child Restraint System

F - ISO/L1: Left Lateral Facing position Child Restraint System (carry-cot)

G - ISO/L2: Right Lateral Facing position Child Restraint System (carry-cot)

**Suitability of each seating position for ISOFIX Child Restraint Systems according to ECE regulations - Fastback**

Mass Group	Size Class	Fixture	Vehicle ISOFIX positions			
			Front Passenger	2nd row		
				Left Hand	Centre	Right Hand
Carrycot	F	ISO/L1	N/A	X	N/A	X
	G	ISO/L2	N/A	X	N/A	X
0- : UP TO 10KG	E	ISO/R1	N/A	IL	N/A	IL
0+ : UP TO 13KG	E	ISO/R1	N/A	IL	N/A	IL
	D	ISO/R2	N/A	IL	N/A	IL
	C	ISO/R3	N/A	IL*	N/A	IL*
1 : 9 TO 18KG	D	ISO/R2	N/A	IL	N/A	IL
	C	ISO/R3	N/A	IL*	N/A	IL*
	B	ISO/F2	N/A	IUF,IL	N/A	IUF,IL
	B1	ISO/F2X	N/A	IUF,IL	N/A	IUF,IL
	A	ISO/F3	N/A	IUF,IL	N/A	IUF,IL

IUF = suitable for ISOFIX forward child restraints systems of universal category approved for use in the mass group.

IL = suitable for particular ISOFIX child restraints systems (CRS) given in the attached list. These ISOFIX CRS are those of the "specific vehicle", "restricted" or "semi-universal" categories.

IL\* = suitable for particular ISOFIX child restraints systems (CRS) given in the attached list.

Driver Seat : Seat Height should be up highest position

Passenger Seat : Seat should be move foremost position.

X = ISOFIX position not suitable for ISOFIX child restraint system in this mass group and/or this size class.

A - ISO/F3: Full-Height Forward-Facing toddler Child Restraint System (height 720mm)

B - ISO/F2: Reduced-Height Forward-Facing toddler Child Restraint System (height 650mm)

B1 - ISO/F2X: Reduced-Height Second Version Back Surface Shape Forward-Facing toddler Child Restraint System (height 650mm)

C - ISO/R3: Full-Size Rearward-Facing toddler Child Restraint System

D - ISO/R2: Reduced-Size Rearward-Facing toddler Child Restraint System

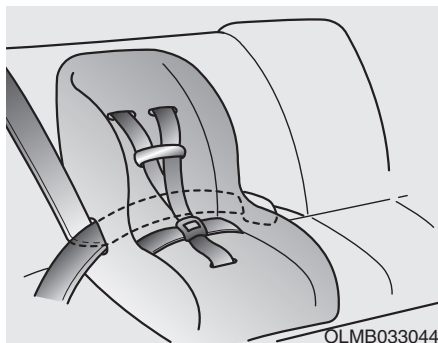
E - ISO/R1: Infant-Size Rearward-Facing Child Restraint System

F - ISO/L1: Left Lateral Facing position Child Restraint System (carry-cot)

G - ISO/L2: Right Lateral Facing position Child Restraint System (carry-cot)

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

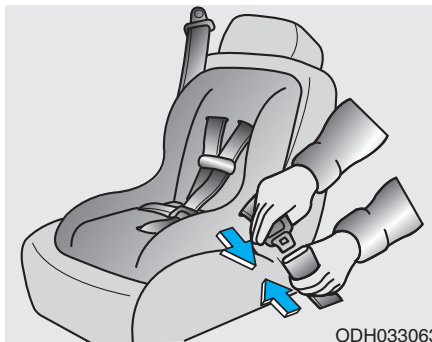
When not using the ISOFIX system, all Child Restraint Systems must be secured to a rear seat with the lap part of a lap/shoulder belt.



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

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

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



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

### **i** Information

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



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

If your Child Restraint System manufacturer recommends the use of a top-tether with the lap/shoulder belt, see page 2-40.

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

**Suitability of each seating position for "universal" category belted Child Restraint Systems according to ECE regulations**

Mass Group		Seating Position				
		Front Passenger		Second Row		
		Airbag activated	Airbag deactivated	Outboard Left	Centre (3 POINT BELT)	Outboard Right
Group 0 (0-9months)	up to 10kg	X	U*	U	U**	U
Group 0 + (0-2years)	up to 13kg	X	U*	U	U**	U
Group I (9months-4years)	9 to 18kg	X	U*	U	U**	U
Group II (15 to 25kg)	15 to 25kg	UF	U*	U	U	U
Group III (22 to 36kg)	22 to 36kg	UF	U*	U	U	U

U = Suitable for "universal" category Child Restraint Systems approved for use in this mass group.

U\* = Suitable for "universal" category Child Restraint Systems approved for use in this mass group (When you install the child seat on Front Passenger seat, you should move the seat position to upward and the seat back position to forward properly, to restrain child seat.)

※ Height adjustable device of Front passenger seat is an optional feature.

U\*\* = Seating position not suitable for fitment of Child Restraint Systems with support leg.

UF = Suitable for forward facing "universal" category restraints approved for use in this mass group.

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

**⚠ WARNING**

**We recommend that a child restraint seat be installed in the rear seat, even if the front passenger's air bag ON/OFF switch is set to the OFF position. To ensure the safety of your child, the front passenger's air bag must be deactivated when it should be necessary to install a child restraint seat on the front passenger seat in exceptional circumstances.**

### ***i-Size Child Restraint Systems according to ECE regulations***

Mass Group	Seating Position			
	Passenger Front	Second Row		
		Outboard Left	Centre	Outboard Right
i-size Child Restraint Systems	X	i-U	X	i-U

i-U : Suitable for i-Size "universal" Child Restraint Systems forward and rearward-facing

i-UF : Suitable for forward-facing i-Size "universal" Child Restraint Systems only

X : Seat position not suitable for i-size Child Restraint Systems

### ***Recommended child restraint systems***

Mass Group	Name	Manufacturer	Type of Fixation	ECE-R44 Approval No.
Group 0+	Cabriofix & Familyfix	Maxi Cosi	Rearward-facing with ISOFIX	E4 04443907
Group I	Duo Plus	Britax Römer	Forward-facing with ISOFIX and top-tether	E1 04301133
Group II	KidFix II XP	Britax Römer	Forward-facing with ISOFIX and vehicle Belt	E1 04301323
Group III	Junior III	Graco	Forward-facing with vehicle Belt	E11 03.44.164 E11 03.44.165

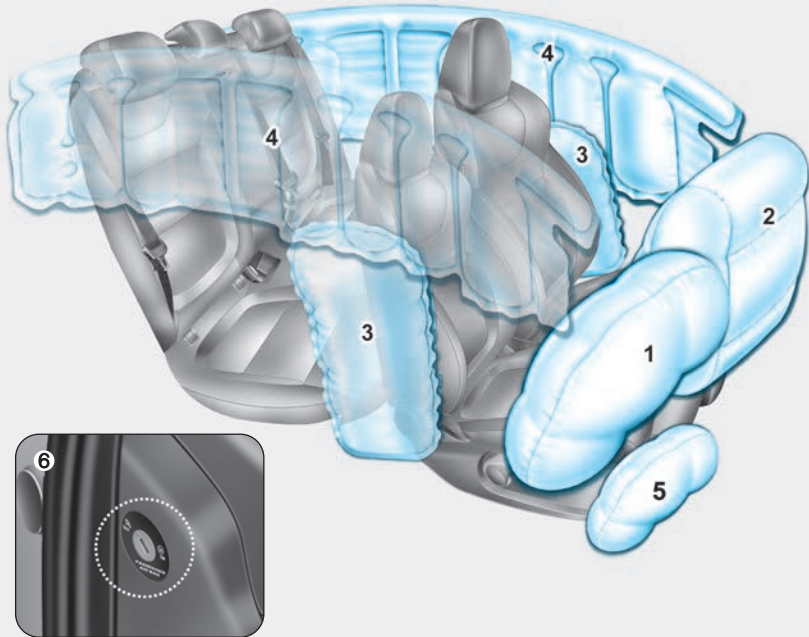
CRS Manufacturer information

Maxi Cosi Cabriofix & Familyfix <http://www.maxi-cosi.com>

Britax Römmmer <http://www.britax.com>

Graco <http://www.gracobaby.com>

## AIR BAG – SUPPLEMENTAL RESTRAINT SYSTEM



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

\* : if equipped

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

OPDEN037032R/OPDEN037066R

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

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

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

## WARNING

### **AIR BAG SAFETY PRECAUTIONS**

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

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

**An inflating air bag could forcefully strike the infant or child causing serious or fatal injuries.**

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

**All occupants should sit upright with the seatback in an upright position, centred 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 centre console.**

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



### Where are the air bags?

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

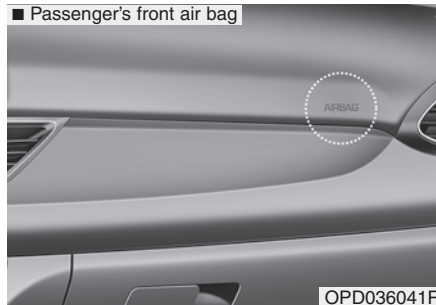
■ Driver's front air bag



■ Driver's knee air bag



■ Passenger's front air bag



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

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

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

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

### **⚠ WARNING**

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

- Seat belts must be worn at all times to help keep occupants positioned properly.
- Move your seat as far back as possible from front air bags, whilst still maintaining control of the vehicle.
- Never lean against the door or centre console.
- Do not allow the front passenger to place their feet or legs on the dashboard.

(Continued)

(Continued)

- No objects (such as crash pad cover, mobile phone holder, cup holder, air fresheners or stickers) should be placed over or near the air bag modules on the steering wheel, instrument panel, windscreen glass, and the front passenger's panel above the glove box. Such objects could cause harm if the vehicle is in a crash severe enough to cause the air bags to deploy.
- Do not attach any objects on the front windscreen and inside mirror.



Passenger's front air bag ON/OFF switch

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



To deactivate the passenger's front air bag:

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



To reactivate the passenger's front air bag:

Insert the key or a similar rigid device into the passenger's front air bag ON/OFF switch and turn it to the ON position. The passenger air bag ON indicator (⊗) will illuminate and stay on for 60 seconds.

### **i** Information

The passenger's front air bag ON/OFF indicator illuminates for about 4 seconds after the ignition switch is placed in the ON position.

### **⚠** WARNING

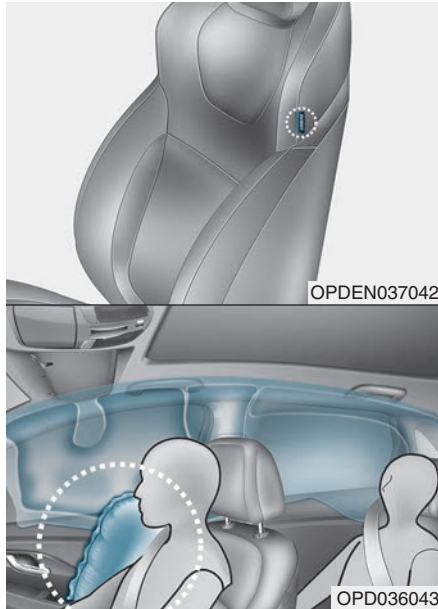
Never allow an adult passenger to ride in the front passenger seat when the passenger air bag OFF indicator is illuminated. During a collision, the air bag will not inflate if the indicator is illuminated. Turn on the passenger's front air bag or have your passenger move to the rear seat.

### **⚠** WARNING

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

- The air bag warning light (⚠) on the instrument cluster will illuminate.
- The passenger air bag OFF indicator (⊗) will not illuminate and the ON indicator (⊗) will come on and go off after approximately 60 seconds. The passenger's front air bag will inflate in a frontal impact even though the passenger's front air bag ON/OFF switch is set to the OFF position.
- We recommend that a HYUNDAI authorised repairer inspect the passenger's front air bag ON/OFF switch and the SRS air bag system as soon as possible.

## 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 air bags on both sides of the vehicle are designed to deploy when a rollover is detected by a rollover sensor. (if equipped with rollover sensor)

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

### **WARNING**

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

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

**(Continued)**

### **(Continued)**

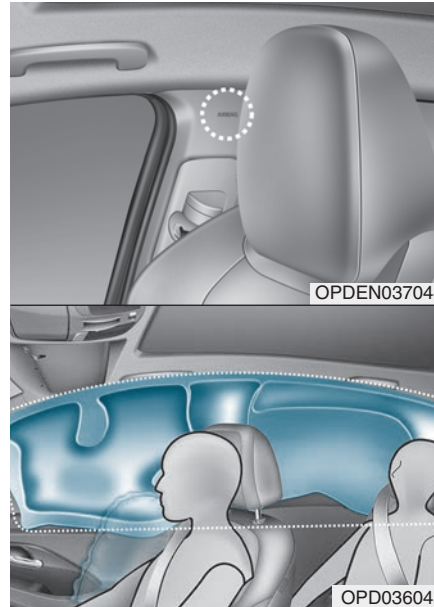
- **Hold the steering wheel at the 9 o'clock and 3 o'clock positions, to minimise the risk of injuries to your hands and arms.**
- **Do not use any accessory seat covers. This could reduce or prevent the effectiveness of the system.**
- **Do not hang other objects except clothes. In an accident it may cause vehicle damage or personal injury especially when air bag is inflated.**
- **Do not place any objects over the air bag or between the air bag and yourself. Also, do not attach any objects around the area the air bag inflates such as the door, side door glass, front and rear pillar.**

**(Continued)**

(Continued)

- Do not place any objects between the door and the seat. They may become dangerous projectiles if the side air bag inflates.
- Do not install any accessories on the side or near the side air bags.
- Do not cause impact to the doors when the ignition switch is in the ON position as this may cause the side air bags to inflate.
- If the seat or seat cover is damaged, we recommend that the system be serviced by a HYUNDAI authorised repairer.

### 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 curtain air bags on both sides of the vehicle are designed to deploy when a rollover is detected by a rollover sensor. (if equipped with rollover sensor)

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

#### WARNING

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

- All seat occupants must wear seat belts at all times to help keep occupants positioned properly.

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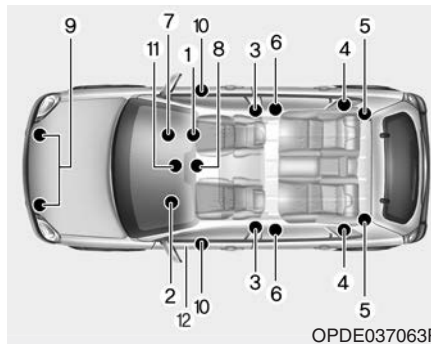
- Properly secure Child Restraint System as far away from the door as possible.
- Do not place any objects over the air bag. Also, do not attach any objects around the area the air bag inflates such as the door, side door glass, front and rear pillar, roof side rail.

- Do not hang other objects except clothes, especially hard or breakable objects.

In an accident, it may cause vehicle damage or personal injury.

- Do not allow passengers to lean their heads or bodies onto doors, put their arms on the doors, stretch their arms out of the window, or place objects between the doors and seats.
- Do not attempt to open or repair the side curtain air bags yourself. If necessary, we recommend that the air bag be inspected by an authorised HYUNDAI dealer.

### How does the air bags system operate?



OPDE037063R

The SRS consists of the following components:

- (1) Driver's front air bag module/  
Driver's knee air bag module
- (2) Passenger's front air bag module
- (3) Side air bag modules/  
Side impact sensors
- (4) Curtain air bag modules
- (5) Rear Retractor pre-tensioner  
(if equipped)
- (6) Retractor pre-tensioner assemblies
- (7) Air bag warning light
- (8) SRS control module (SRSCM)/  
Rollover sensor
- (9) Front impact sensors
- (10) Side pressure sensors
- (11) Passenger's front air bag  
ON/OFF indicator  
(front passenger's seat only)
- (12) Passenger's front air bag  
ON/OFF switch

The SRSCM continually monitors all SRS components whilst the ignition switch is ON to determine if a crash impact is severe enough to require air bag deployment or pre-tensioner seat belt deployment.



SRS warning light

The SRS (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 problem with your air bag system, which could include your side and/or curtain air bags used for rollover protection (if equipped with rollover sensor).

### **WARNING**

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

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

- **The light does not turn on for approximately six seconds when the ignition switch is in the ON position.**
- **The light stays on after illuminating for approximately six seconds.**
- **The light comes on whilst the vehicle is in motion.**
- **The light blinks when the engine is running.**

**We recommend that a HYUNDAI authorised repairer inspect the SRS as soon as possible if any of these conditions occur.**

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

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

- Air bags are activated (able to inflate if necessary) only when the 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 serious side collisions, vehicles equipped with a rollover sensor, side and/or curtain air bags will inflate if the sensing system detects a rollover.  
When a rollover is detected, curtain air bags will remain inflated longer to help provide protection from ejection, especially when used in conjunction with the seat belts. (if equipped with a rollover sensor)
- To help provide protection, the air bags must inflate rapidly. The speed of air bag inflation is a consequence of extremely short time in which to inflate the air bag between the occupant and the vehicle structures before the occupant impacts those structures. This speed of inflation reduces the risk of serious or life-threatening injuries and is thus a necessary part of air bag design.  
However, the rapid air bag inflation can also cause injuries which can include facial abrasions, bruises and broken bones because the inflation speed also causes the air bags to expand with a great deal of force.
- There are even circumstances under which contact with the air bag can cause fatal injuries, especially if the occupant is positioned excessively close to the air bag.

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



■ Driver's front air bag (1)



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

■ Driver's front air bag (2)



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

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

■ Driver's front air bag (3)



■ Passenger's front air bag



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

**⚠ WARNING**

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

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

**What to expect after an air bag inflates**

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

**⚠ WARNING**

After an air bag inflates, take the following precautions:

- Open your windows and doors as soon as possible after impact to reduce prolonged exposure to the smoke and powder released by the inflating air bag.
- Do not touch the air bag storage area's internal components immediately after an air bag has inflated. The parts that come into contact with an inflating air bag may be very hot.
- Always wash exposed skin areas thoroughly with cold water and mild soap.
- We recommend that a **HYUNDAI authorised repairer replace the air bag immediately after deployment. Air bags are designed to be used only once.**

**Noise and smoke from inflating air bag**

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

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

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



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

**⚠ WARNING**

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

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

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

**Air bag collision sensors**

**⚠ WARNING**

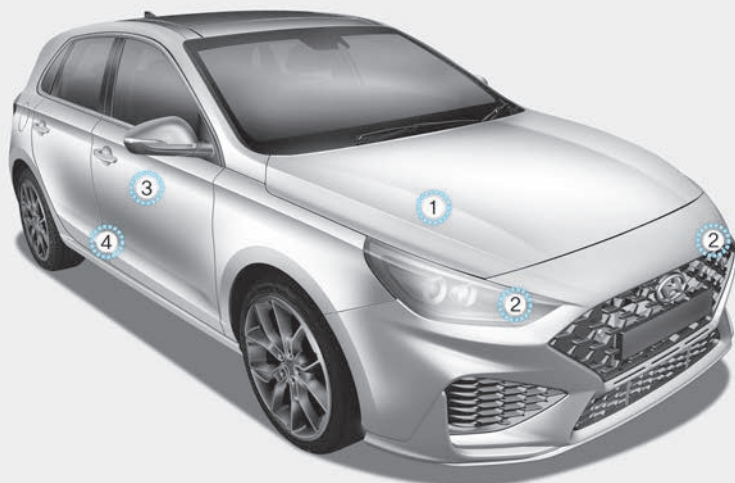
**To reduce the risk of an air bag deploying unexpectedly and causing serious injury or death:**

- Do not hit or allow any objects to impact the locations where air bags or sensors are installed.

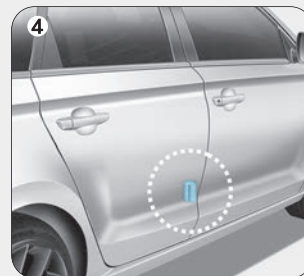
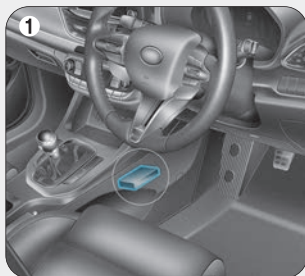
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- Do not perform maintenance on or around the air bag sensors. If the location or angle of the sensors is altered, the air bags may deploy when they should not or may not deploy when they should.
- Do not install bumper guards or replace the bumper with a non-genuine part. This may adversely affect the collision and air bag deployment performance.
- Place the ignition switch to the LOCK/OFF or ACC position, when the vehicle is being towed to prevent inadvertent air bag deployment.
- We recommend that all air bag repairs are conducted by a HYUNDAI authorised repairer.

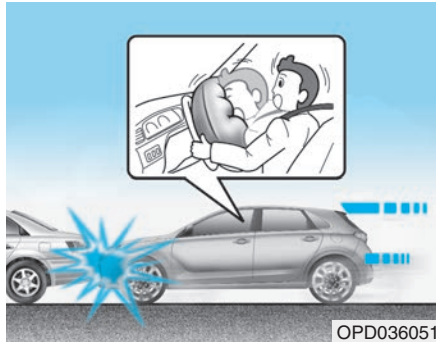


1. SRS control module
  2. Front impact sensor
  3. Side pressure sensor (front)\*
  4. Side impact sensor (rear)\*
- \* : if equipped



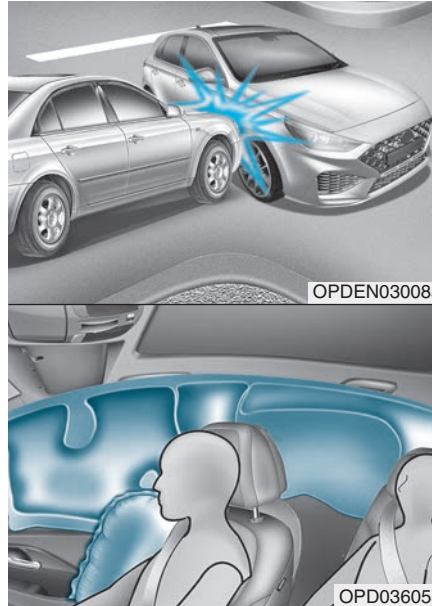
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### Air bag inflation conditions



#### Front air bags

Front air bags 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, but they may inflate in other collisions if the side impact sensors detect a sufficient impact.

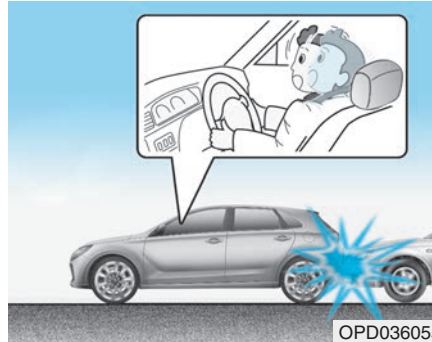
Also, the side and curtain air bags are designed to inflate when a rollover is detected by a rollover sensor. (if equipped with rollover sensor)

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

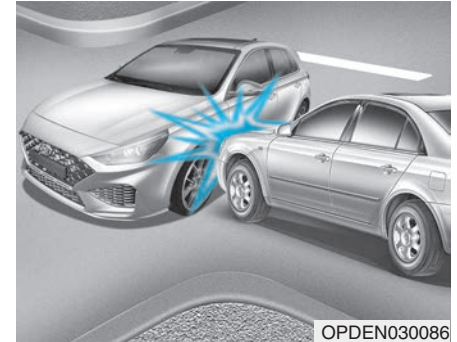
## Air bag non-inflation conditions



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



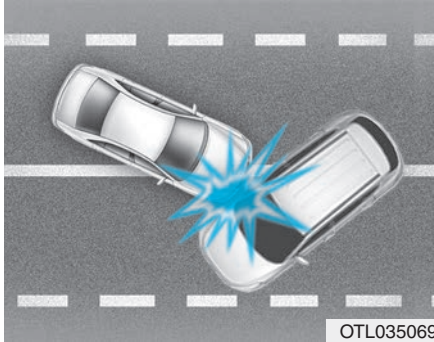
Front air bags are not designed to inflate in rear collisions, because occupants are moved backward by the force of the impact. In this case, inflated air bags would not provide any additional benefit.



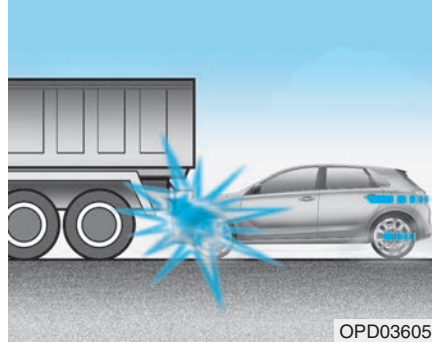
Front air bags may not inflate in side impact collisions, because occupants move in the direction of the collision, and thus in side impacts, front air bag deployment would not provide additional occupant protection.

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

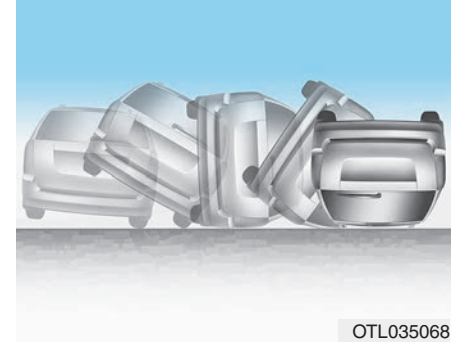




In an angled collision, the force of impact may direct the occupants in a direction where the air bags would not be able to provide any additional benefit, and thus the sensors may not deploy any air bags.



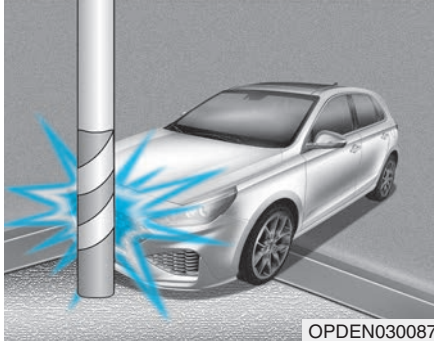
Just before impact, drivers often brake heavily. Such heavy braking lowers the front portion of the vehicle causing it to “ride” under a vehicle with a higher ground clearance. Air bags may not inflate in this “under-ride” situation because deceleration forces that are detected by sensors may be significantly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



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

### **i** Information

- **Vehicles equipped with rollover sensor**  
The side and curtain air bags may inflate in a rollover situation, when it is detected by the rollover sensor.
- **Vehicles not equipped with rollover sensor**  
The side and/or curtain air bags may inflate when the vehicle is rolled over by a side impact collision, if the vehicle is equipped with side and/or curtain air bags.



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

### SRS care

The SRS is virtually maintenance-free and there are no parts you can safely service by yourself. If the SRS air bag warning light does not illuminate when the ignition switch is in the ON position, or continuously remains on, we recommend that the system be immediately inspected by a HYUNDAI authorised repairer.

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

### WARNING

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

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

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- We recommend that inflated air bags be replaced by a HYUNDAI authorised repairer.
- If components of the air bag system must be discarded, or if the vehicle must be scrapped, certain safety precautions must be observed. Consult a HYUNDAI authorised repairer 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 whilst 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.

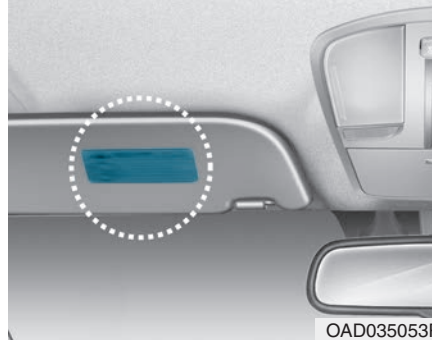
**Do not place items under the front seats.** Placing items under the front seats could interfere with the operation of the supplemental restraint system sensing components and wiring harnesses.

**Do not cause impact to the doors.** Impact to the doors when the ignition switch is in the ON position may cause the air bags to inflate.

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

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

### **Air bag warning labels**



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

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



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## ACCESSING YOUR VEHICLE

### Remote key (if equipped)



Your HYUNDAI uses a remote key, which you can use to lock or unlock a door (and tailgate) and even start the engine.

1. Door Lock
2. Door Unlock
3. Tailgate Unlock

### Locking

To lock :

1. Close all doors, engine bonnet and tailgate.
2. Press the Door Lock button (1) on the remote key.
3. The doors will lock. The hazard warning lights will blink. Also, the outside rearview mirror will fold, if the outside rearview mirror folding switch is in the AUTO position (if equipped).
4. When the doors are locked, the indicator light on the central door lock/unlock switch will be illuminated.

### WARNING

**Do not leave the keys in your vehicle with unsupervised children. Unattended children could place the key in the ignition switch and may operate power windows or other controls, or even make the vehicle move, which could result in serious injury or death.**

### Unlocking

To unlock:

1. Press the Door Unlock button (2) on the remote key.
2. The doors will unlock. The hazard warning lights will blink two times. Also, the outside rearview mirror will unfold, if the outside rearview mirror folding switch is in the AUTO position (if equipped).

### Information

**After unlocking the doors, the doors will lock automatically after 30 seconds unless a door is opened.**

### Tailgate unlocking

To unlock:

1. Press the Tailgate Unlock button (3) on the remote key for more than one second.
2. The hazard warning lights will blink two times and the tailgate will be unlocked.

### **i** Information

The word "HOLD" is written on the button to inform you that you must press and hold the button for more than one second.

### **Start-up**

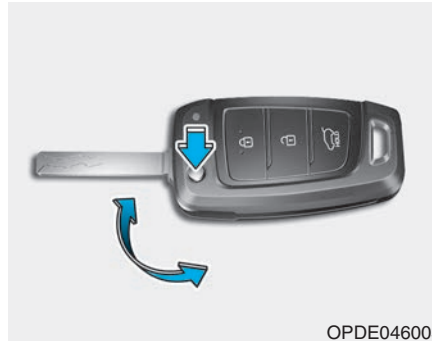
For detailed information refer to "Key Ignition Switch" in chapter 5.

### **NOTICE**

To prevent damaging the remote key:

- Keep the remote key away from water or any liquid and fire. If the inside of the smart key gets damp (due to drinks or moisture), or is heated, internal circuit may malfunction and may void the vehicle warranty.
- Avoid dropping or throwing the remote key.
- Protect the remote key from extreme temperatures.

### **Mechanical key**



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

To unfold the key, press the release button then the key will unfold automatically.

To fold the key, fold the key manually whilst pressing the release button.

### **NOTICE**

**Do not fold the key without pressing the release button. This may damage the key.**

### **Remote key precautions**

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

- The key is in the ignition switch.
- You exceed the operating distance limit (about 30 m [90 feet]).
- The remote key battery is weak.
- Other vehicles or objects may be blocking the signal.
- The weather is extremely cold.
- The remote key is close to a radio transmitter such as a radio station or an airport which can interfere with normal operation of the remote key.

If the remote key does not work correctly, open and close the door with the mechanical key. If you have a problem with the remote key, it is recommended that you contact a HYUNDAI authorised repairer.

If the remote key is in close proximity to your mobile phone, the signal could be blocked by your mobile phone's normal operational signals.

This is specifically relevant when the phone is active such as making and receiving calls, text messaging, and/or sending/receiving emails.

Avoid placing the remote key and your mobile phone in the same location and always try to maintain an adequate distance between the two devices.

### **i** Information

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. If the keyless entry system is inoperative due to changes or modifications not expressly approved by the party responsible for compliance, it will not be covered by your manufacturer's vehicle warranty.

### **NOTICE**

Keep the remote key away from electromagnetic materials that block electromagnetic waves to the key surface.

### **Battery replacement**

If the remote key is not working properly, try replacing the battery with a new one.



Battery Type: CR2032

To replace the battery:

1. Insert a slim tool into the slot and gently pry open the cover.
2. Using a screw driver, remove the battery cover.
3. Remove the old battery and insert a new battery. Make sure the battery position is correct.
4. Reinstall the battery cover and key cover in the reverse order of removal.

If you suspect your remote key might have sustained some damage, or you feel your remote key is not working correctly, it is recommended that you contact a HYUNDAI authorised repairer.

### **! WARNING**

**THIS PRODUCT CONTAINS A BUTTON BATTERY.**

**If swallowed, a lithium button battery can cause severe or fatal injuries within 2 hours. Keep batteries out of reach of children.**

**If you think batteries may have been swallowed or placed inside any part of the body, seek immediate medical attention.**

### **i** Information



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



### Smart key (if equipped)



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

1. Door Lock
2. Door Unlock
3. Tailgate Unlock

### Locking



To lock :

1. Close all doors, engine bonnet and tailgate.
2. Either press the door handle button or press the Door Lock button (1) on the smart key.
3. The hazard warning lights will blink. Also, the outside rearview mirror will fold, if the outside rearview mirror folding switch is in the AUTO position (if equipped).
4. When the doors are locked, the indicator light on the central door lock/unlock switch will be illuminated.

### **i** Information

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

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 tailgate is open.

### **⚠** 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



To unlock:

1. Carry the Smart Key.
2. Either press the door handle button or press the Door Unlock button (2) on the smart key.
3. The doors will unlock. The hazard warning lights will blink two times. Also, the outside rearview mirror will unfold, if the outside rearview mirror folding switch is in the AUTO position. (if equipped)

## **i** Information

- The door handle button will only operate when the smart key is within 0.7~1 m (28~40 in.) from the outside door handle. Other people can also open the doors without the smart key in possession.
- After unlocking the doors, the doors will lock automatically after 30 seconds unless a door is opened.

## **Tailgate unlocking**

To unlock:

1. Carry the smart key.
2. Either press the tailgate handle button or press the Tailgate Unlock button (3) on the smart key for more than one second.
3. The hazard warning lights will blink two times.

## **i** Information

- The Tailgate Unlock button (3) will only unlock the tailgate. It will not release the latch and open the tailgate automatically. If the Tailgate Unlock button is used, someone must still press the tailgate handle button to open the tailgate.
- After unlocking the tailgate, the tailgate will lock automatically after 30 seconds unless the tailgate is opened.

### Start-up

You can start the engine without inserting the key. **For detailed information refer to the Engine Start/Stop button in chapter 5.**

#### NOTICE

To prevent damaging the smart key:

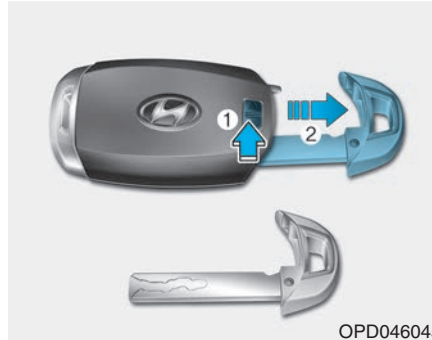
- Keep the smart key away from water or any liquid and fire. If the inside of the smart key gets damp (due to drinks or moisture), or is heated, internal circuit may malfunction and may void the vehicle warranty.
- Avoid dropping or throwing the smart key.
- Protect the smart key from extreme temperatures.

#### 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.



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

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

### Loss of a smart key

A maximum of two smart keys can be registered to a single vehicle. If you happen to lose your smart key, it is recommended that you should immediately take the vehicle and remaining key to your HYUNDAI authorised repairer or tow the vehicle, if necessary.

### Smart key precautions

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

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

If the smart key does not work correctly, open and close the door with the mechanical key. If you have a problem with the smart key, it is recommended that you contact a HYUNDAI authorised repairer.

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

Avoid placing the smart key and your mobile phone in the same location and always try to maintain an adequate distance between the two devices.

### **i** Information

**Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. If the keyless entry system is inoperative due to changes or modifications not expressly approved by the party responsible for compliance, it will not be covered by your manufacturer's vehicle warranty.**

#### **NOTICE**

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

#### **NOTICE**

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

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

If you suspect your smart key might have sustained some damage, or you feel your smart key is not working correctly, it is recommended that you contact a HYUNDAI authorised repairer.

### WARNING

**THIS PRODUCT CONTAINS A BUTTON BATTERY.**

**If swallowed, a lithium button battery can cause severe or fatal injuries within 2 hours. Keep batteries out of reach of children.**

**If you think batteries may have been swallowed or placed inside any part of the body, seek immediate medical attention.**

### Information



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

## Immobiliser system

The immobiliser 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 ignition switch is placed in the ON position, the immobiliser system indicator should come on briefly, then go off. If the indicator starts to blink, the system does not recognise the coding of the key.

Place the ignition switch to the LOCK/OFF position, then place the ignition switch to the ON position again.

The system may not recognise your key's coding if another immobiliser key or other metal object (for example, 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 recognise the coding of the key, it is recommended that you contact your HYUNDAI authorised repairer.

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

### WARNING

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

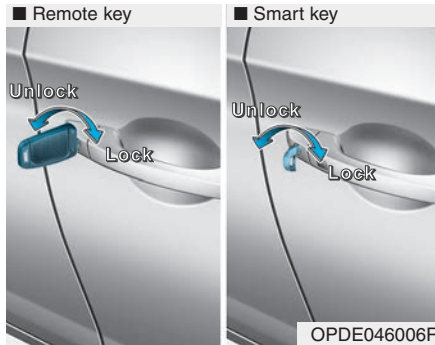
### NOTICE

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

## DOOR LOCKS

### Operating door locks from outside the vehicle

#### Mechanical key



Turn the key toward the rear of the vehicle to unlock and toward the front of the vehicle to lock.

If you lock/unlock the driver's door with a key, a driver's door will lock/unlock automatically.

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.

#### Remote key

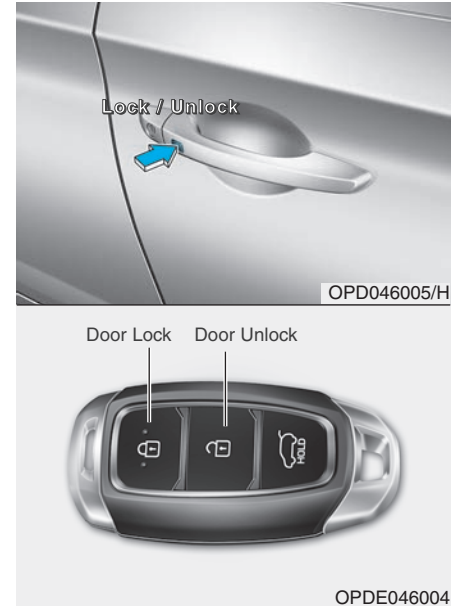


To lock the doors, press the Door Lock button (1) on the remote key.

To unlock the doors, press the Door Unlock button (2) on the remote key. 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 whilst carrying the smart key with you or press the door lock button on the smart key.

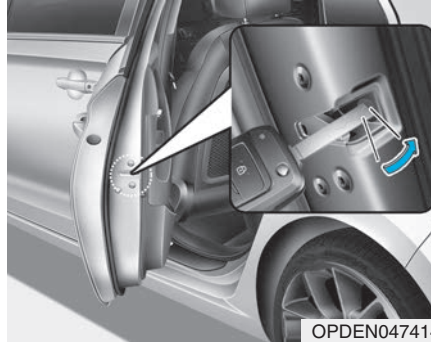
To unlock the doors, press the button on the outside door handle whilst carrying the smart key with you or press the door unlock button on the smart key.

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.**



### **In case of an emergency**

If the electrical power door lock switch is not operating (for example, dead car battery) the only way to lock the door(s) is with the mechanical key from the outside key hole.

Doors without an outside key hole can be locked as follows:

1. Open the door.
2. Insert the key into the emergency door lock hole and turn the key horizontally to lock.
3. Close the door securely.

### **i** Information

If the electrical power to door lock switch is not operating (for example, dead car battery) and the tailgate is closed, you will not be able to open the tailgate until power is restored.

### Operating door locks from inside the vehicle

#### **With the door handle**



#### **Front door**

If the inner door handle is pulled when the door is locked, the door will unlock and open.



## Rear door

If the inner door handle is pulled once when the door is locked, the door will unlock.

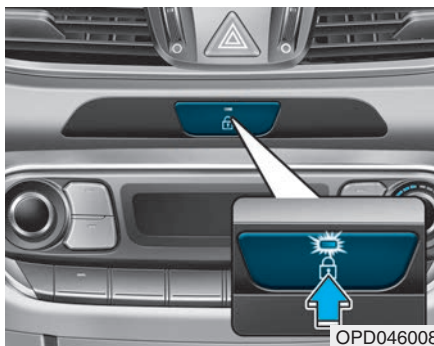
If the inner door handle is pulled once more, the door will open.

### **i** Information

If a power door lock ever fails to function whilst 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) whilst simultaneously pulling on the door handle.
- Operate the other door locks and handles, front and rear.
- Lower a front window and use the mechanical key to unlock the door from outside.

### **With the central door lock/unlock switch**



- With a door unlocked
  - If you press the central door lock switch, all vehicle doors will lock and the indicator light on the switch will illuminate.
  - If any door is opened when the switch is pressed, no doors will lock.
- With all doors locked
  - If you press the central door unlock switch, all vehicle doors will unlock.
  - If any door is unlocked, the indicator on the central door lock switch will go out.

### **i** Information

The indicator light on the switch blinks for approximately one minute when a door is unlocked or the tailgate is opened.

#### **⚠ WARNING**

- The doors should always be fully closed and locked whilst the vehicle is in motion. If the doors are unlocked, the risk of being thrown from the vehicle in a crash is increased.
- Do not pull the inner door handle of driver's(or passenger's) door whilst the vehicle is moving.

#### **⚠ WARNING**

**Do not leave the elderly, children or animals unattended in your vehicle. An enclosed vehicle can become extremely hot, causing death or serious injury to the elderly, unattended children or animals who cannot escape from the vehicle.**

**(Continued)**



(Continued)

Children might operate features of the vehicle that could injure them, or they could encounter other harm, possibly from someone gaining entry to the vehicle.

 **WARNING**

Leaving your vehicle unlocked can allow theft or entry into the vehicle.

To secure your vehicle, whilst depressing the brake, move the shift lever to the P (Park) position (for dual clutch transmission) or first gear or R (Reverse, for manual transmission) on a downhill, engage the parking brake, and place the ignition switch in the LOCK/OFF position, close all windows, lock all doors, and always take the key with you.

 **WARNING**

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

 **WARNING**

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

## Deadlocks (if equipped)

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

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

 **WARNING**

Do not lock the doors with the remote key or the smart key with anybody left in the vehicle. The passenger in the vehicle cannot unlock the doors with the door lock button. For example, if the door is locked with the remote key, the passenger in the vehicle cannot unlock the door without the remote key.

## Auto door lock/unlock features

### ***Impact sensing door unlock system (if equipped)***

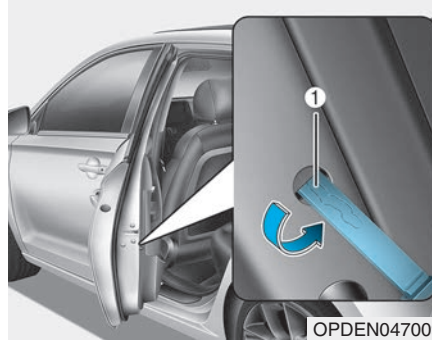
All doors will be automatically unlocked when an impact causes the air bags to deploy.

### ***Speed sensing door lock system (if equipped)***

All doors will be automatically locked when vehicle speed exceeds 9 mph (15 km/h).

You can activate or deactivate the Auto Door Lock/Unlock features from the User Settings mode on the LCD display. **For more details, refer to "LCD Display" 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 position, the rear door will not open if the inner door handle is pulled.

To lock the child safety lock, insert a key (or screwdriver) (1) 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.

### **⚠ WARNING**

**If children accidentally open the rear doors whilst 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 occur:

- A door is opened without using the remote key or smart key.
- The tailgate is opened without using the remote key or smart key.
- The engine bonnet is opened.

The alarm continues for 30 seconds, then the system resets. To turn off the alarm, unlock the doors with the remote key or smart key.

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

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

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

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

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

#### **i** Information

- **Do not lock the doors until all passengers have left the vehicle. If the remaining passenger leaves the vehicle when the system is armed, the alarm will be activated.**
- **If the vehicle is not disarmed with the remote key or smart key, open the doors by using the mechanical key and place the ignition switch in the ON position (for remote key) or start the engine (for smart key) and wait for 30 seconds.**
- **When the system is disarmed but a door or tailgate is not opened within 30 seconds, the system will be rearmed.**



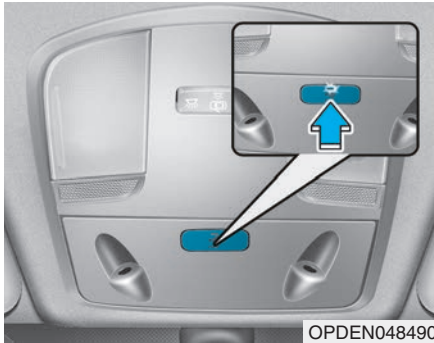
#### **i** Information

Vehicles equipped with a theft alarm system will have a label attached to the vehicle with the following words:

1. WARNING
2. SECURITY SYSTEM

## Theft-alarm system (For UK)

### Intrusion/tilt sensor ON/OFF condition (UK, if equipped)



- To cancel the sensor operation, press the sensor ON/OFF button when the system is in the "Disarmed" stage and the ignition switch or Engine Start/Stop button is in the OFF position. The button light will turn on to indicate that the sensor is deactivated. After pressing the button, if the system is not armed within 5 minutes, the sensor will be activated again.

If the system is armed when the sensor is in the OFF status, the intrusion/tilt sensor will not operate even though the button light is turned off. Then, the alarm will be activated when the system meets the intrusion/tilt sensor off condition of "Theft-alarm" stage.

- To reactivate the sensor operation, press the sensor ON/OFF button again.

### NOTICE

- Do not activate the sensor if there are any chances the vehicle tilts by the outward influences (for example, ferry boat travelling, tower parking etc.), because it could cause the siren to sound inadvertently.
- Make sure all windows are close whilst the system operates. If not, the sensor detects the inadvertent movement inside the vehicle (for example, blowing a wind or entering a butterfly) and it makes the siren sounds.
- If boxes are piled high in the vehicle, the sensor may not detect the movement behind the boxes. Also the boxes may drop and it makes the siren sounds.
- If the sensor is stained with foreign matter such as cosmetics, spray type air freshener, or spray type window cleaner, the sensor may not operate normally.

### ***Theft-alarm stage***

#### **Intrusion/tilt sensor OFF condition**

The alarm will be activated if any of the following occurs whilst the system is armed.

- A front or rear door is opened without using the transmitter (or smart key).
- The tailgate is opened without using the transmitter (or smart key).
- The engine bonnet is opened.
- The ignition switch or Engine Start/Stop button is in the ON position.

#### **Intrusion/tilt sensor ON condition**

The alarm will be activated if any of the following occurs whilst the system is armed when the sensor is activated.

- The passenger(s) moves in the vehicle.
- The inclination of the vehicle is changed to the certain degree.
- A front or rear door is opened without using the transmitter (or smart key).
- The tailgate is opened without using the transmitter (or smart key).
- The engine bonnet is opened.
- The ignition switch or Engine Start/Stop button is in the ON position.

The siren will sound and the hazard warning lights will blink continuously for approximately 27 seconds and repeat max. 8 times when the system meets the alarm activation condition. To turn off the system, unlock the doors with the transmitter (or smart key).

### ***Disarmed stage***

The system will be disarmed when:

#### **Folding key**

- The door unlock button is pressed.
- The 3 seconds are passed after the engine has been started.

#### **Smart key**

- The door unlock button is pressed.
- The button of the front outside door is pressed whilst carrying the smart key.
- The engine is started.

After the doors are unlocked, the hazard warning lights will blink twice to indicate that the system is disarmed.

After pressing the unlock button, if any door (or tailgate) is not opened within 30 seconds, the system will be rearmed.

---

**NOTICE**

- **Without smart key system**

If the system is not disarmed with the transmitter, insert the key into the ignition switch and start the engine. Then the system will be disarmed.

- **With smart key system**

If the system is not disarmed with the smart key, open the door with the mechanical key and start the engine. Then the system will be disarmed.

- **If you lose your keys, we recommend that you have the system inspected by a HYUNDAI authorised repairer.**

## 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

### **⚠ WARNING**

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

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

### **i Information**

- **If the battery is disconnected, the memory settings will be erased.**
- **If the Driver Position Memory System does not operate normally, we recommend that you have the system checked by a HYUNDAI authorised repairer.**

### **Storing memory positions**

1. Place the ignition switch or the Engine Start/Stop button in the ON position.
2. Adjust the driver's seat position, outside rearview mirror position and instrument panel illumination intensity to the desired position.
3. Press the SET button. The system will beep once and notify you "Press button to save settings" on the LCD display.
4. Press one of the memory buttons (1 or 2) within 4 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 memory positions**

1. Place the ignition switch or the Engine Start/Stop button in the ON position.
2. Press the desired memory button (1 or 2). The system will beep once, then the driver's seat position, outside rearview mirror and instrument panel illumination will automatically adjust to the stored position.
3. "Driver 1(or 2) settings is applied" will appear on the LCD display.

## **i** Information

- Whilst 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.
- Whilst 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.
- Whilst 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 (if equipped)

The system will move the driver's seat automatically as follows:

- Without smart key system
  - It will move the driver's seat rearward when the ignition key is removed and the driver's door is opened.
  - It will move the driver's seat forward when the ignition key is inserted.
- With smart key system
  - It will move the driver's seat rearward when the Engine Start/Stop button is in the OFF position and the driver's door is opened.
  - It will move the driver's seat forward when the vehicle is turned ON or the driver's door is closed with the smart key with you.

You can activate or deactivate the Easy Access Function from the User Settings mode on the LCD display. **For more details, refer to "LCD Display" in this chapter.**

## CAUTION

**Driver should be cautious when using this function to assure no injury to passenger or child on the back seat. In case of emergency the driver has to stop movement of front seat (when easy access feature is activated) by pressing SET button or any of the driver seat control switches.**



## STEERING WHEEL

### Electric power steering (EPS)

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

Also, the steering effort becomes heavier as the vehicle's speed increases and becomes lighter as the vehicle's speed decreases for better control of the steering wheel.

Should you notice any change in the effort required to steer during normal vehicle operation, we recommend that the system be checked by a HYUNDAI authorised repairer.

#### NOTICE

- **If the Electric Power Steering System does not operate normally, the warning light (⊕!) will illuminate or blink on the instrument cluster. The steering wheel may become difficult to control or operate. Take your vehicle to a HYUNDAI authorised repairer and have the system checked as soon as possible.**
- **When abnormality is detected in the electric power steering system, to prevent a deadly accident, the steering assist function will stop. At this time, the warning light turns on or blinks on the cluster. The steering wheel may become difficult to control or operate. Have your vehicle checked immediately, after moving the vehicle to a safe zone.**

#### **i** Information

The following symptoms may occur during normal vehicle operation:

- The steering effort may be high immediately after placing the ignition switch button 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 ignition switch is placed in the ON or LOCK/OFF position.
- Motor noise may be heard when the vehicle is at a stop or at a low driving speed.
- When you operate the steering wheel in low temperatures, abnormal noise may occur. If the temperature rises, the noise will disappear. This is a normal condition.

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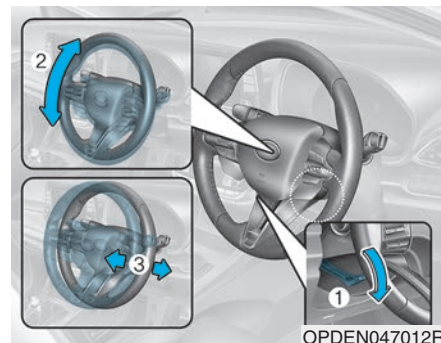
- When the vehicle is stationary, if you turn the steering wheel all the way to the left or right continuously, the steering effort increases. This is not a system malfunction. As time passes, the steering wheel effort will return to its normal condition.

### Tilt steering / Telescopic steering

Adjust the steering wheel so it points toward your chest, not toward your face. Make sure you can see the instrument cluster warning lights and gauges. After adjusting, push the steering wheel both up and down to be certain it is locked in position. Always adjust the position of the steering wheel before driving.

#### WARNING

**Never adjust the steering wheel whilst driving. You may lose steering control and cause severe personal injury, death or accidents.**



To change the steering wheel angle and height:

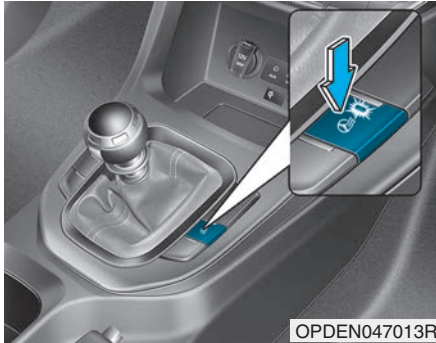
1. Pull down the lock-release lever (1).
2. Adjust the steering wheel to the desired angle (2) and distance forward/back (3).
3. Pull up the lock-release lever to lock the steering wheel in place.

#### Information

After adjustment, sometimes the lock-release lever may not lock the steering wheel.

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

## Heated steering wheel (if equipped)



When the ignition switch is in the ON 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.

### **i** Information

The heated steering wheel will turn off automatically approximately 30 minutes after the heated steering wheel is turned on.

When the engine is turned off during the engine and the heated steering wheel is on, the timer function of heated steering wheel will be reset.

To reuse heated steering wheel, press button again.

### **NOTICE**

**Do not install any cover or accessory on the steering wheel. This 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. 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 the centre on the view through the rear window.

#### WARNING

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

#### WARNING

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

#### WARNING

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

#### NOTICE

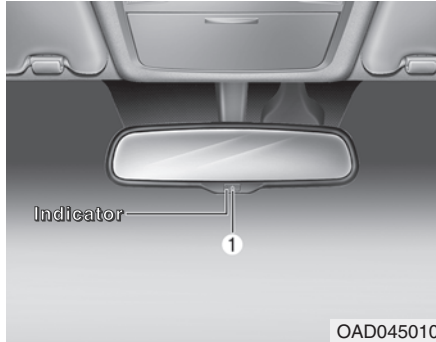
**When cleaning the mirror, use a paper towel or similar material dampened with glass cleaner. Do not spray glass cleaner directly on the mirror as that may cause the liquid cleaner to enter the mirror housing.**

### *Electric Chromic Mirror (ECM)*

The electric rearview mirror automatically controls the glare from the headlamp of the vehicle behind you in nighttime or low light driving conditions.

When the engine is running, the glare is automatically controlled by the sensor mounted in the rearview mirror. The sensor detects the light level around the vehicle, and automatically adjusts to control the headlamp glare from vehicles behind you.

Whenever the shift lever is placed in R (Reverse), the mirror will automatically go to the brightest setting in order to improve the driver's view behind the vehicle.



**To operate the electric rearview mirror:**

- Press the ON/OFF button (1) to turn the automatic dimming function off. The mirror indicator light will turn off.  
Press the ON/OFF button (1) to turn the automatic dimming function on. The mirror indicator light will illuminate.
- The mirror defaults to the ON position whenever the ignition switch is in the ON position.

**Outside rearview mirror**



Be sure to adjust mirror angles before driving.  
The mirror can be adjusted remotely with the remote switch.  
The mirror heads can be folded to prevent damage during an automatic car wash or when passing through a narrow street.

**⚠ WARNING**

- The outside rearview mirror is convex. Objects seen in the mirror are closer than they appear.
- Use your interior rearview mirror or turn your head and look to determine the actual distance of following vehicles when changing lanes.

**⚠ WARNING**

**Do not adjust or fold the outside rearview mirrors whilst driving. This may cause loss of vehicle control resulting in an accident.**

### NOTICE

- Do not scrape ice off the mirror face; this may damage the surface of the glass.
- If the mirror is jammed with ice, do not adjust the mirror by force. Use an approved de-icer (not radiator antifreeze) spray, or a sponge or soft cloth with very warm water, or move the vehicle to a warm place and allow the ice to melt.

### Adjusting the rearview mirrors

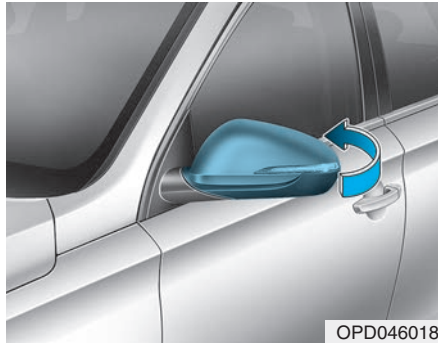


1. Press either the L (left side) or R (right side) button (1) to select the rearview mirror you would like to adjust.
2. Use the mirror adjustment control (2) to position the selected mirror up, down, left or right.
3. After adjustment, put the button into neutral (centre) position to prevent inadvertent adjustment.

### NOTICE

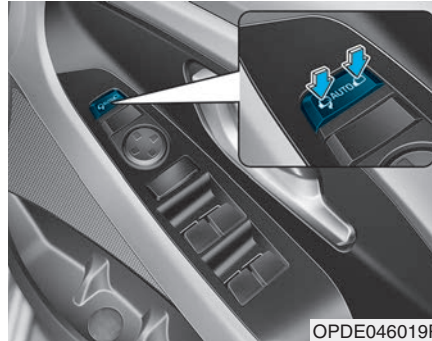
- The mirrors stop moving when they reach the maximum adjusting angles, but the motor continues to operate whilst the switch is pressed. Do not press the switch longer than necessary, the motor may be damaged.
- Do not attempt to adjust the outside rearview mirror by hand otherwise the motor may be damaged.

### Folding the outside rearview mirror



#### Manual type

To fold the outside rearview mirror, grasp the housing of the mirror and then fold it toward the rear of the vehicle.



#### Electric type

**Left** : The mirror will fold.

**Right** : The mirror will unfold.

**Centre (AUTO)** : The mirror will fold or unfold automatically as follows:

- Without smart key system
  - The mirror will fold or unfold when the door is locked or unlocked by the remote key.
- With smart key system
  - The mirror will fold or unfold when the door is locked or unlocked by the smart key.
  - The mirror will fold or unfold when the door is locked or unlocked by the button on the outside door handle.

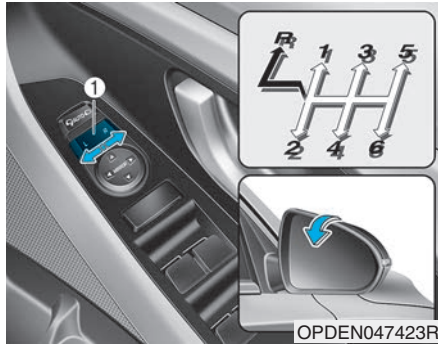
#### NOTICE

The electric type outside rearview mirror operates even though the ignition switch is in the OFF position. However, to prevent unnecessary battery discharge, do not adjust the mirrors longer than necessary whilst the engine is not running.

#### NOTICE

Do not fold the electric type outside rearview mirror by hand. It could cause motor failure.

## Reverse parking aid function (if equipped)



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.

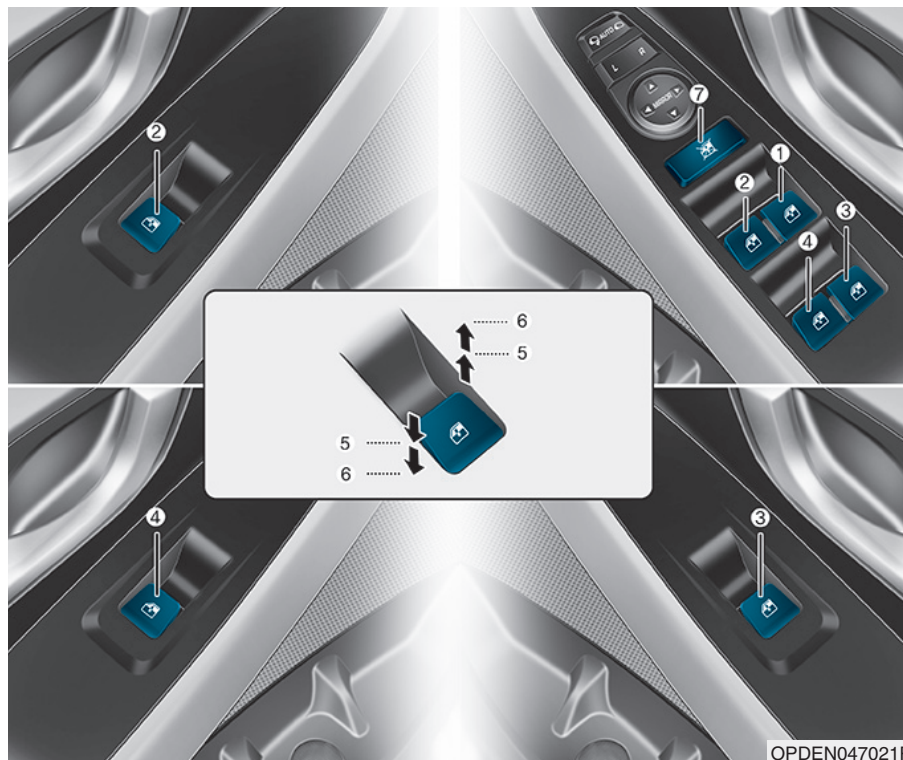
The outside rearview mirrors will automatically revert to their original positions if any of the following occur:

- The ignition switch is placed to either the LOCK/OFF position or the ACC position.
- The shift lever is moved to any position except R (Reverse).
- The outside rearview mirror switch is not selected.



## WINDOWS

### Power windows



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

The ignition switch must be in the ON position to be able to raise or lower the windows. Each door has a Power Window switch to control that door's window. The driver has a Power Window Lock switch which can block the operation of rear passenger windows. The power windows will operate for approximately 30 seconds after the ignition switch is placed 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.

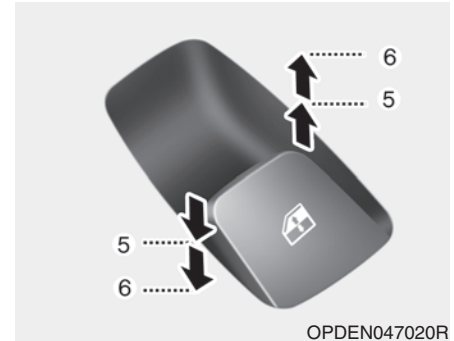
### WARNING

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

### Information

- **In cold and wet climates, power windows may not work properly due to freezing conditions.**
- **Whilst 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 2.5 cm (1 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**

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 whilst the window is in operation, pull up or press down and release the switch.

### **To reset the power windows**

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

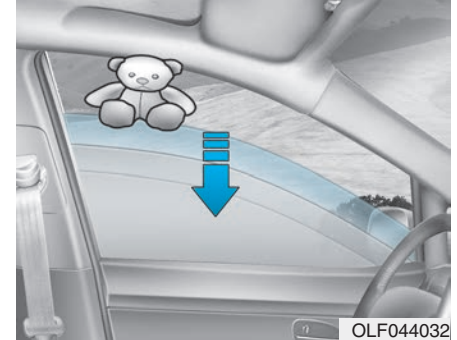
1. Place the ignition switch to the ON position.
2. Close the window and continue pulling up on the power window switch for at least one second.

If the power windows do not operate properly after resetting, it is recommended that the system be checked by a HYUNDAI authorised repairer.

#### **⚠ WARNING**

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

### **Automatic reverse**



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

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

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

## **i** Information

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

### **⚠** WARNING

Make sure body parts or other objects are safely out of the way before closing the windows to avoid injuries or vehicle damage.

Objects less than 4 mm (0.16 inch) 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 passengers' doors by pressing the power window lock switch.

When the power window lock switch is pressed:

- The driver's master control can operate all the power windows.
- The front passenger's control can operate the front passenger's power window.
- The rear passenger's control cannot operate the rear passengers' power window.

### **⚠** 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.

**⚠ WARNING**

- **NEVER** leave the keys in your vehicle with unsupervised children, when the engine is running.
- **NEVER** leave any child unattended in the vehicle. Even very young children may inadvertently cause the vehicle to move, entangle themselves in the windows, or otherwise injure themselves or others.
- Always double check to make sure all arms, hands, head and other obstructions are safely out of the way before closing a window.
- Do not allow children to play with the power windows. Keep the driver's door power window lock switch in the **LOCK** position (pressed). Serious injury can result from unintentional window operation by the child.
- Do not extend your head, arms or body outside the windows whilst driving.

**Remote window closing function (if equipped)**



You can still control the window movement with the engine turned off by pressing the door lock button (1) for more than 3 seconds. The window moves (up), as long as you press the door lock button. The window movement stops, when you release the door lock button. The hazard warning lights blink 3 times, when the window is completely closed.

**i Information**

- The remote window closing function may abruptly stop, when you move away from your vehicle during the operation. Stay in close proximity of your vehicle, whilst monitoring the window movement.
- One of the windows may stop operating, when the window is interrupted by certain force. However, the other windows will keep operating. Thus, you should make sure that all windows are closed, and that the hazard warning lights blink 3 times.

## PAÑORAMA SUNROOF (IF EQUIPPED)

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



The sunroof can only be operated when the ignition switch is in the ON position.

The sunroof can be operated for approximately 30 seconds after the ignition switch is in the ACC or LOCK position. However, if the front door is open, the sunroof cannot be operated even within the 30 second period.

### ⚠ WARNING

- **Adjust the sunroof or sunshade when your vehicle stops. This could result in loss of control and an accident that may cause injury, or property damage.**
- **Do not leave the engine running and the key in your vehicle with unsupervised children. Unattended children could operate the sunroof, which could result in serious injury.**
- **Do not sit on the top of the vehicle. It may cause injury or vehicle damage.**

### NOTICE

**Do not operate the sunroof when roof bars are installed on the vehicle or when there is luggage on the roof.**

## Power sunshade



Use the power sunshade to block direct sunlight coming through the sunroof glass.

- Push the sunroof switch rearward to the first detent position, the power sunshade automatically slides open.
- Push the sunroof switch forward to the first detent position, the power sunshade automatically closes. However, if the sunroof glass is open, the glass will close first.

To stop the power sunshade at any point, push the sunroof switch in any direction.

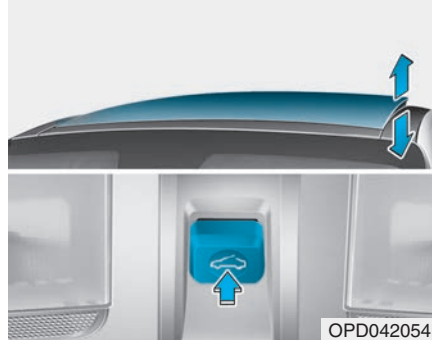
### NOTICE

Do not pull or push the power sunshade by hand as such action may damage the power sunshade or cause it to malfunction.

### **i** Information

Wrinkles formed on the power sunshade are normal due to material characteristic.

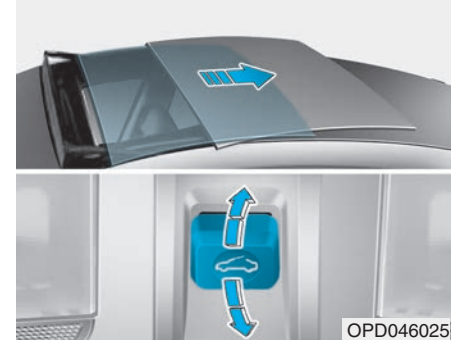
### Tilt open/close



- Push the sunroof switch upward, the sunroof glass tilts open. However, if the power sunshade is closed, the sunshade will open first.
- Push the sunroof switch upward or forward when the sunroof glass is tilted opened, the sunroof glass automatically closes.

To stop the sunroof movement at any point, push the sunroof switch in any direction.

### Slide open/close



- Push the sunroof switch rearward to the first detent position, the sunroof glass opens. However, if the power sunshade is closed, the power sunshade will open first.

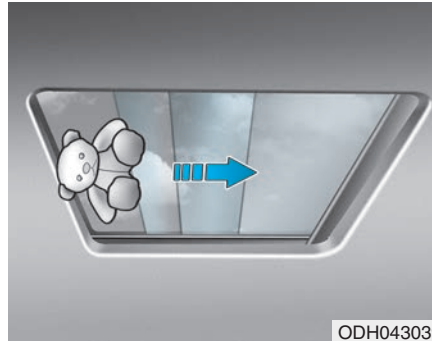
Push the sunroof switch forward to the first detent position, the sunroof glass closes. However, if the sunroof glass is closed, the power sunshade will close.



- Push the sunroof switch forward or rearward to the second detent position, the power sunshade and sunroof glass operate automatically (auto slide feature).

To stop the sunroof movement at any point, push the sunroof switch in any direction.

### Automatic reversal



If the power sunshade or sunroof glass senses any obstacle whilst it is closing automatically, it will reverse direction then stop at a certain position.

The auto reverse function may not work if an object thin or soft is caught between the sliding power sunshade or sunroof glass and sunroof sash.

### NOTICE

- Do not continue to push the sunroof switch after the sunroof is fully opened, closed, or tilted. Damage to the sunroof motor could occur.
- Continuous operations such as slide open/close, tilt open/close, etc. may cause the motor or sunroof system to malfunction.
- Regularly remove any accumulated dust on the sunroof rail.
- Dust accumulated between the sunroof and roof panel can make noise. Open the sunroof and remove dust regularly using a clean cloth.
- Do not try to open the sunroof when the temperature is below freezing or when the sunroof is covered with snow or ice. The sunroof may not work properly and may break if opened by force.

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- Do not open or drive with the sunroof glass open immediately after rain or washing the vehicle. Water may wet the interior of the vehicle.
- Do not extend any luggage outside the sunroof whilst driving. Vehicle damage may occur if the vehicle suddenly stops.

### WARNING

**Do not extend your head, arms, body parts or objects outside the sunroof whilst driving. Injuries may occur if the vehicle suddenly stops.**

## Resetting the sunroof



In some circumstances resetting the sunroof operation may need to be performed. Some instances where resetting the sunroof may be required include:

- When the 12-volt battery is either disconnected or discharged
- When the sunroof fuse is replaced
- If the sunroof one-touch AUTO OPEN/CLOSE operation is not functioning properly

Sunroof resetting procedure:

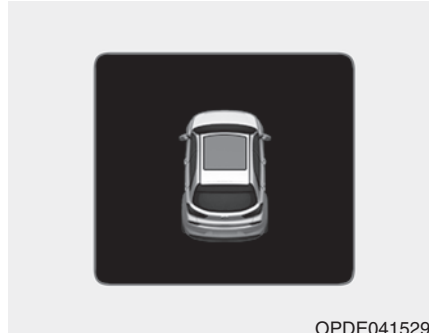
1. It is recommended to perform the reset procedure with the vehicle engine running. Start the vehicle in P (Park).
2. Make sure the power sunshade and sunroof glass are in the fully closed position. If the power sunshade and sunroof glass are open, push the switch forward until the power sunshade and sunroof glass are fully closed.
3. Release the switch when the power sunshade and sunroof glass are fully closed.
4. Push the switch forward until the power sunshade and sunroof glass move slightly. Then release the switch.
5. Once again push and hold the sunroof switch forward until the power sunshade and sunroof glass slide open and close. Do not release the switch until the operation is completed.

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

### **i** Information

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

### Sunroof open warning



If the driver turns off the engine when the sunroof is not fully closed, the warning chime will sound for several seconds and the sunroof open warning will appear on the cluster LCD display.

Close the sunroof securely when leaving your vehicle.

### **⚠ CAUTION**

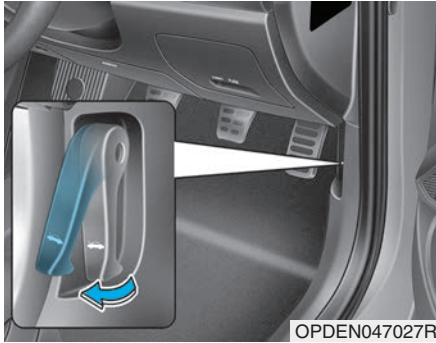
**Make sure the sunroof is closed fully when leaving your vehicle. If the sunroof is left open, rain or snow may wet the interior of the vehicle.**

**Also, leaving the sunroof open when the vehicle is unattended may invite theft.**

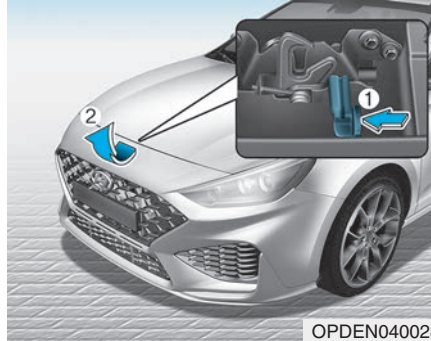
## EXTERIOR FEATURES

### Bonnet

#### Opening the bonnet



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



3. Go to the front of the vehicle, raise the bonnet slightly, push the secondary latch up (1) inside of the bonnet centre and lift the bonnet (2).
4. Pull out the support rod.



5. Hold the bonnet open with the support rod (1).

### WARNING

- Grasp the support rod in the area wrapped in rubber. The rubber will help prevent you from being burned by hot metal when the engine is hot.
- The support rod must be inserted completely into the hole provided whenever you inspect the engine compartment. This will prevent the bonnet from falling and possibly injuring you.

### Closing the bonnet

- Before closing the bonnet, 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.
- Return the support rod to its clip to prevent it from rattling.
- Lower the bonnet halfway (lifted approximately 30cm from the closed position) and push down to securely lock in place. Then double check to be sure the bonnet is secure.

If the bonnet can be raised slightly, it is not securely locked. Open it again and close it with more force.

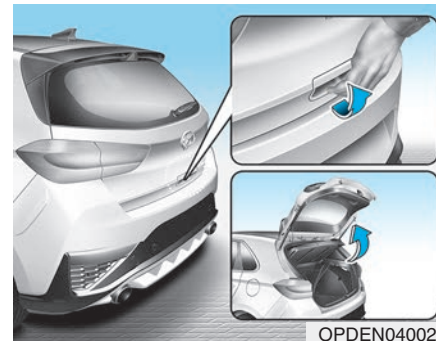
### ⚠ WARNING

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

### Tailgate

#### Opening the tailgate

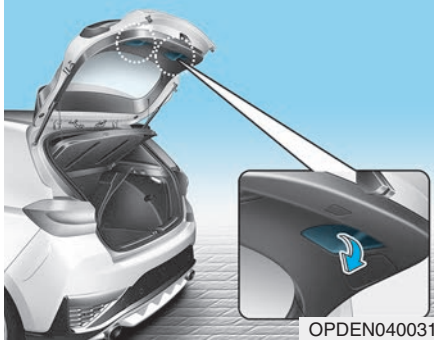
Make sure the vehicle is in P (Park) and set the parking brake.



Then do one of the following:

- Unlock all doors with the Door Unlock button on your remote key or smart key. Press the tailgate handle button and open the tailgate.
- Press and hold the Tailgate Unlock button on the remote key or smart key. Press the tailgate handle button and open the tailgate.
- With the Smart Key in your possession, press the tailgate handle button and open the tailgate.

## Closing the tailgate



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

### WARNING

Always keep the tailgate lid completely closed whilst 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.

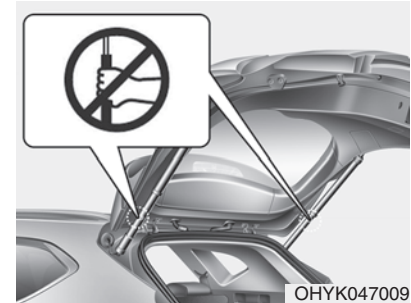
### Information

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

### **NOTICE**

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

### WARNING



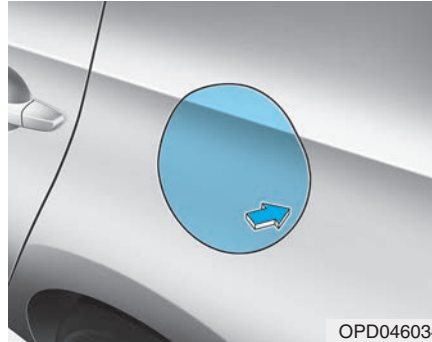
**Do not hold the part (gas lifter) that supports the tailgate. Be aware that the deformation of the part may cause vehicle damage and a risk of safety accident.**

## WARNING

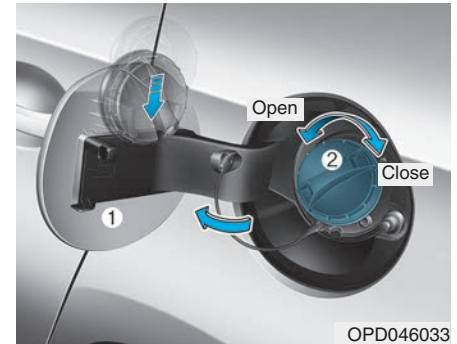
- NEVER allow anyone to occupy the luggage compartment of the vehicle at any time. If the tailgate is partially or totally latched and the person is unable to get out, serious injury or death could occur due to lack of ventilation, exhaust fumes and rapid heat build-up, or because of exposure to cold weather conditions. The luggage compartment 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.
- Your vehicle should be kept locked and keys should be kept out of the reach of children. Parents should teach their children about the dangers of playing in luggage compartments.

## Fuel filler door

### Opening the fuel filler door



1. Turn the engine off.
2. Ensure the driver's door is unlocked.
3. Push the fuel filler door near the 3 o'clock position.



4. Pull the fuel filler door (1) out to fully open.
5. 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.

### Information

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

### **Closing the fuel filler door**

1. 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.

### **Information**

The fuel filler door will not close if the driver's door is locked. If you lock the driver's door whilst fuelling, unlock it before closing the fuel filler door.

### **WARNING**

Petrol 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 refuelling, note the location of the Emergency Petrol Shut-Off, if available, at the gas station.

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- 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.
- Do not use mobile phones whilst refuelling. Electric current and/or electronic interference from mobile phones can potentially ignite fuel vapours and cause a fire.
- Do not get back into a vehicle once you have begun refuelling. You can generate a build-up of static electricity by touching, rubbing or sliding against any item or fabric capable of producing static electricity.

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- Static electricity discharge can ignite fuel vapours 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 petrol source, with your bare hand.
- When refuelling, always move the shift lever to the P (Park) position (for dual clutch transmission) or first gear or R (Reverse, for manual transmission) on a downhill, set the parking brake, and place the ignition switch to the LOCK/OFF position. Sparks produced by electrical components related to the engine can ignite fuel vapours causing a fire.

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- When using an approved portable fuel container, be sure to place the container on the ground prior to refuelling. Static electricity discharge from the container can ignite fuel vapours causing a fire. Once refuelling 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 petrol.
- Do not use matches or a lighter and do not smoke or leave a lit cigarette in your vehicle whilst at a gas station, especially during refuelling.
- Do not over-fill or top-off your vehicle tank, which can cause petrol spillage.

(Continued)

(Continued)

- If a fire breaks out during refuelling, 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

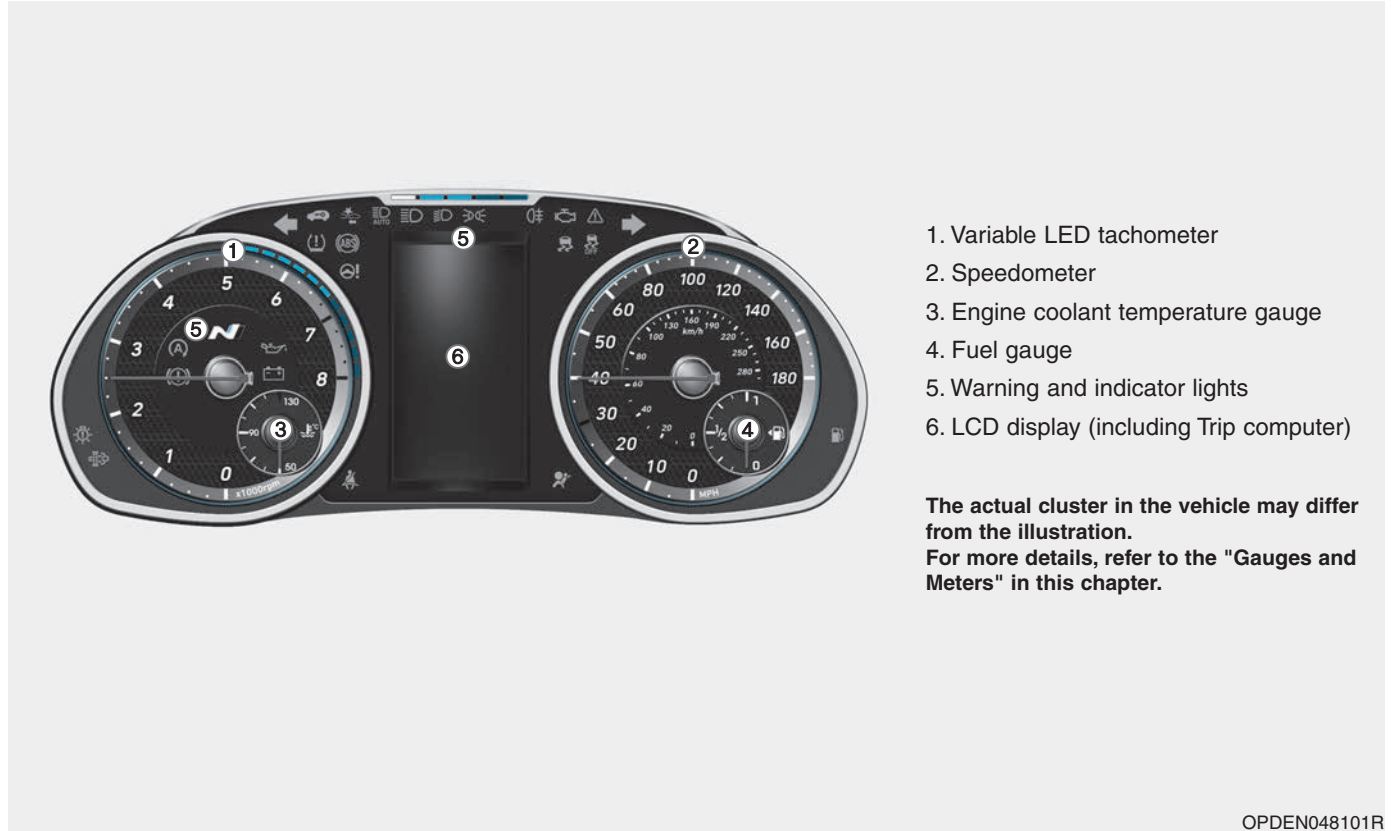
Make sure to refuel your vehicle according to the "Fuel Requirements" suggested in the Introduction chapter.

#### **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.



## INSTRUMENT CLUSTER



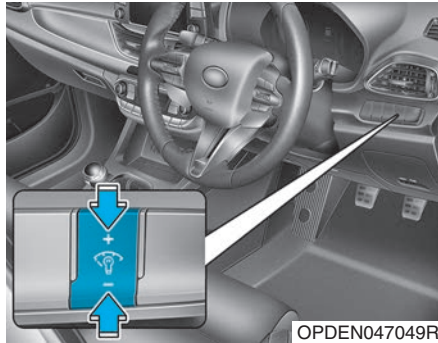
1. Variable LED tachometer
2. Speedometer
3. Engine coolant temperature gauge
4. Fuel gauge
5. Warning and indicator lights
6. LCD display (including Trip computer)

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

OPDEN048101R

## Instrument cluster control

### Instrument panel illumination

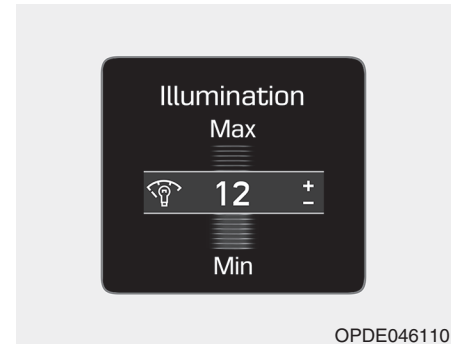


When the vehicle's position lights or headlamps are on, press the illumination control button to adjust the brightness of the instrument panel illumination.

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

## WARNING

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



OPDE046110

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

## Gauges and meters

### Speedometer



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

### Variable LED tachometer



The tachometer indicates the approximate number of engine revolutions per minute (rpm).

Use the tachometer to select the correct shift points and to prevent lugging and/or over-revving the engine.



The yellow and red LEDs show the range of recommended engine operation speed. As the engine oil temperature warms up, the recommended engine speed range also extends.

Avoid driving with engine speeds in the yellow and red warning fields.

In particular, do not drive with the engine speed in the red warning field. Doing so may damage the engine.

## Engine coolant temperature gauge



OPDEN047106

This gauge indicates the temperature of the engine coolant when the ignition switch is in the ON position.

### NOTICE

If the gauge pointer moves beyond the normal range area toward the "130" position, it indicates overheating that may damage the engine.

Do not continue driving with an overheated engine. If your vehicle overheats, refer to "If the Engine Overheats" in chapter 6.

### WARNING

**Never remove the coolant cap when the engine is hot. The engine coolant is under pressure and could cause severe burns. Wait until the engine is cool before adding coolant to the reservoir.**

## Fuel gauge



OPDEN047206

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

### Information

- The fuel tank capacity is given in chapter 8.
- The fuel gauge is supplemented by a low fuel warning light, which will illuminate when the fuel tank is nearly empty.
- 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.

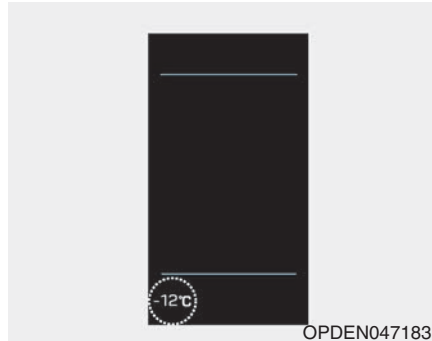
**⚠ WARNING**

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 "0" level.

**NOTICE**

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

**Outside temperature gauge**



This gauge indicates the current outside air temperatures either in Celsius (°C) or Fahrenheit (°F).

- Temperature range : -40°C ~ 60°C (-104°F ~ 140°F)

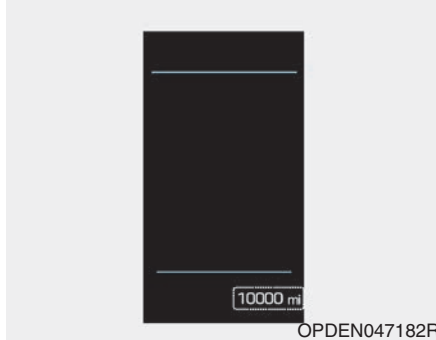
The outside temperature on the display may not immediately change like a general thermometer not to distract the driver.

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

- User Settings mode in the Cluster : You can change the temperature unit in the "Other features - Temperature unit" .
- Automatic climate control system : Whilst pressing the OFF button, press the AUTO button for 3 seconds or more.

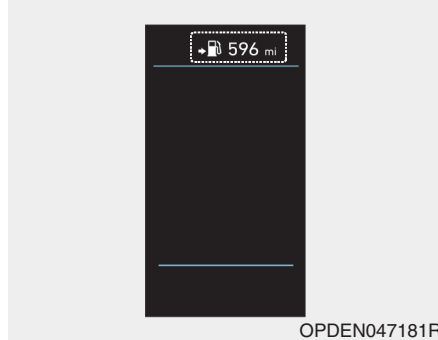
The temperature unit on both the cluster LCD display and the climate control screen will change.

## Odometer



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

## Distance to empty



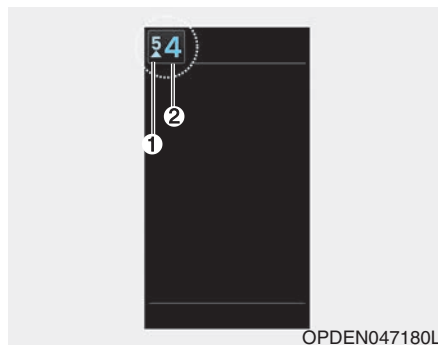
- The distance to empty is the estimated distance the vehicle can be driven with the remaining fuel.
- If the estimated distance is below 1 mi. (1 km), the trip computer will display "---" as distance to empty.

## **i** Information

- If the vehicle is not on level ground or the battery power has been interrupted, the distance to empty function may not operate correctly.
- The distance to empty may differ from the actual driving distance as it is an estimate of the available driving distance.
- The trip computer may not register additional fuel if less than 6 litres (1.3 Imp. gal) of fuel are added to the vehicle.
- The distance to empty may vary significantly based on driving conditions, driving habits, and condition of the vehicle.


### Transmission shift indicator


#### Manual transmission shift indicator (if equipped)



1. This indicator informs which gear is recommended whilst driving, to save fuel.
2. This indicator informs the current gear engaged (available only whilst driving).

For example

 : Indicates that shifting up to the 3rd gear is recommended (currently the shift lever is in the 2nd or 1st gear).

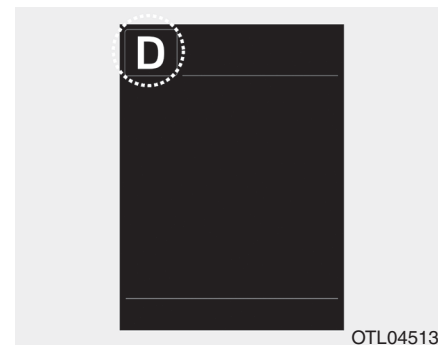
 : Indicates that shifting down to the 3rd gear is recommended (currently the shift lever is in the 4th, 5th, or 6th gear).

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

#### Information

**The recommended gear (1) may vary according to which drive mode is selected.**

#### Dual clutch transmission shift indicator (if equipped)



This indicator displays which shift lever position is selected.

- Park :P
- Reverse : R
- Neutral : N
- Drive :D
- Manual shift mode : D1, D2, D3, D4,
- D5, D6, D7

## Shift lights



The number of LEDs illuminated indicates the relevant engine speed. Different coloured LEDs will be illuminated as engine speed nears the maximum allowed speed. When all 5 LEDs start blinking, it indicates the best time to initiate upshift operation. Do not wait any further to shift.

You may select in which mode to display the gear shift indicator in the User Settings mode.

Go to 'User Settings → Convenience → Shift recommendation light → ECO/NORMAL/SPORT/N/CUSTOM'.

Each gear and drive mode has different LED operation range. In SPORT mode and N mode, LED operation is broader than NORMAL mode and ECO mode to further support the driver under sporty and track driving conditions.

## Warning and indicator lights

### Information

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

## Air Bag Warning Light



### This warning light illuminates:

- When you turn the ignition switch or the Engine Start/Stop button to the ON position.
  - It illuminates for approximately 6 seconds and then goes off.
- When there is a malfunction with the SRS.

In this case, we recommend that you have the vehicle inspected by a HYUNDAI authorised repairer.

## Seat Belt Warning Light



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

**For more details, refer to “Seat Belts” in chapter 2.**



### **Parking Brake & Brake Fluid Warning Light**



#### **This warning light illuminates:**

- When you set the ignition switch or the Engine Start/Stop button to the ON position.
  - It illuminates for approximately 3 seconds
  - It remains on if the parking brake is applied.
- When the parking brake is applied.
- When the brake fluid level in the reservoir is low.
  - If the warning light illuminates with the parking brake released, it indicates the brake fluid level in the reservoir is low.

If the brake fluid level in the reservoir is low:

1. Drive carefully to the nearest safe location and stop your vehicle.
2. With the engine stopped, check the brake fluid level immediately and add fluid as required (**For more details, refer to “Brake Fluid” in chapter 7**). After adding brake fluid, check all brake components for fluid leaks. If a brake fluid leak is found, or if the warning light remains on, or if the brakes do not operate properly, do not drive the vehicle. We recommend that you have the vehicle inspected by a HYUNDAI authorised repairer.

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

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

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

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

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

#### **⚠ WARNING**

#### **Parking Brake & Brake Fluid Warning Light**

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

**In this case, we recommend that you have the vehicle inspected by a HYUNDAI authorised repairer.**

## Anti-lock Brake System (ABS) Warning Light



### This warning light illuminates:

- When you set the ignition switch or the Engine Start/Stop button to the ON position.
  - It illuminates for approximately 3 seconds and then goes off.
- When there is a malfunction with the ABS (The normal braking system will still be operational without the assistance of the anti-lock brake system).

In this case, we recommend that you have the vehicle inspected by a HYUNDAI authorised repairer.

## Electronic Brake Force Distribution (EBD) System Warning Light



### These two warning lights illuminate at the same time whilst driving:

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

In this case, we recommend that you have the vehicle inspected by a HYUNDAI authorised repairer.

### WARNING

#### Electronic Brake Force Distribution (EBD) System Warning Light

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

(Continued)

(Continued)

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

We recommend you have the vehicle inspected by a HYUNDAI authorised repairer as soon as possible.

### Information - Electronic Brake Force Distribution (EBD) System Warning Light

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

In this case, we recommend you have the vehicle inspected by a HYUNDAI authorised repairer as soon as possible.

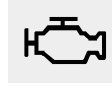
### **Electric Power Steering (EPS) Warning Light**



#### **This warning light illuminates:**

- When there is a malfunction with the EPS or ignition key is turned on, then warning light is on.
- The warning light is on in driving, there is malfunction with the EPS. We recommend that you have the vehicle inspected by a HYUNDAI authorised repairer.
- Once you set the ignition switch or Engine Start/Stop Button to the ON position, warning light illuminates (without vehicle malfunction) for approximately 3 seconds and then goes out.

### **Malfunction Indicator Lamp (MIL)**



#### **This warning light illuminates:**

- When you set the ignition switch or the Engine Start/Stop button to the ON position.
  - It illuminates for approximately 3 seconds and then goes off.
- When there is a malfunction with the emission control system. In this case, we recommend that you have the vehicle inspected by a HYUNDAI authorised repairer.

#### **NOTICE**

Driving with the Malfunction Indicator Lamp (MIL) on may cause damage to the emission control system which could affect drivability and/or fuel economy.

#### **NOTICE - Petrol Engine**

If the Malfunction Indicator Lamp (MIL) illuminates, potential catalytic converter damage is possible which could result in loss of engine power.

In this case, we recommend that you have the vehicle inspected by a HYUNDAI authorised repairer as soon as possible.

## Charging System Warning Light



This warning light illuminates:

- When there is a malfunction with either the alternator or electrical charging system.

**If there is a malfunction with either the alternator or electrical charging system:**

1. Drive carefully to the nearest safe location and stop your vehicle.
2. Turn the engine off and check the alternator drive belt for looseness or breakage.

If the belt is adjusted properly, there may be a problem in the electrical charging system.

In this case, we recommend that you have the vehicle inspected by a HYUNDAI authorised repairer as soon as possible.

## Engine Oil Pressure Warning Light



This warning light illuminates:

- When the engine oil pressure is low.

**If the engine oil pressure is low:**

1. Drive carefully to the nearest safe location and stop your vehicle.
2. Turn the engine off and check the engine oil level (**For more details, refer to “Engine Oil” in chapter 7**). If the level is low, add oil as required.

If the warning light remains on after adding oil or if oil is not available, we recommend that you have the vehicle inspected by a HYUNDAI authorised repairer as soon as possible.

Continued driving with the warning light on may cause engine failure.

### NOTICE

**If the engine does not stop immediately after the Engine Oil Pressure Warning Light is illuminated, severe damage could result.**

### **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 “0” can cause the engine to misfire and damage the catalytic converter (if equipped).**

### **Master Warning Light**



**This indicator light illuminates:**

- When there is a malfunction in the below systems.
  - LED head lamp malfunction
  - High Beam Assist malfunction (if equipped)
  - Forward Collision-Avoidance Assist malfunction (if equipped)
  - Intelligent Speed Limit Warning malfunction (if equipped)

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

### **Low Tyre Pressure Warning Light (if equipped)**



**This warning light illuminates:**

- When you set the ignition switch or Engine Start/Stop button to the ON position.
  - It illuminates for approximately 3 seconds and then goes off.
- When one or more of your tyres are significantly underinflated (The location of the underinflated tyres are displayed on the LCD display).

**For more details, refer to “Tyre Pressure Monitoring System (TPMS)” in chapter 6.**

This warning light remains on after blinking for approximately 60 seconds or repeatedly blinks on and off at approximately 3 second intervals:

- When there is a malfunction with the TPMS.

In this case, we recommend that you have the vehicle inspected by a HYUNDAI authorised repairer as soon as possible.

**For more details, refer to “Tyre Pressure Monitoring System (TPMS)” in chapter 6.**

## WARNING

### Safe Stopping

- **The TPMS cannot alert you to severe and sudden tyre 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.**

**Exhaust System (GPF)  
Warning Light  
(for petrol engine,  
if equipped)**



**This warning light illuminates:**

- When there is a malfunction with the Gasoline (Petrol) Particulate Filter (GPF) system.

When this warning light illuminates, it may turn off after driving the vehicle:

- At more than 80 km/h (50 mph) for about 30 minutes (above 3rd gear with 1,500 ~ 4,000 engine rpm)

If this warning light blinks in spite of the procedure (at this time LCD warning message will be displayed), we recommend that you have the GPF system checked by a HYUNDAI authorised repairer.

## NOTICE

**If you continue to drive with the GPF warning light blinking for a long time, the GPF system can be damaged and fuel consumption can worsen.**

**Electronic Stability Control (ESC) Indicator Light (if equipped)**



**This indicator light illuminates:**

- When you set the ignition switch or the Engine Start/Stop button to 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, we recommend that you have the vehicle inspected by a HYUNDAI authorised repairer.

**This indicator light blinks:**

- Whilst the ESC is operating.

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

**Electronic Stability Control (ESC) OFF Indicator Light (if equipped)**



**This indicator light illuminates:**

- When you set the ignition switch or the Engine Start/Stop button to the ON position.
  - It illuminates for approximately 3 seconds and then goes off.
- When you deactivate the ESC system by pressing the ESC OFF button.

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

**ECS SPORT Indicator Light**



**This indicator light illuminates:**

- When ESC SPORT is activated.

**For more details, refer to “Electronic Stability Control” in chapter 5.**

**AUTO STOP Indicator Light (if equipped)**



**This indicator light illuminates:**

- When the engine enters the Idle Stop mode of the ISG (Idle Stop and Go) system.

**This indicator light blinks:**

- When the automatic starting occurs, the AUTO STOP indicator on the cluster will blink for 5 seconds.

**For more details, refer to the “ISG (Idle Stop and Go) system” in chapter 5.**

***i* Information**

When the engine automatically starts by the ISG system, some warning lights (ABS, ESC, ESC OFF, EPS or Parking brake warning light) may turn on for a few seconds.

This happens because of low battery voltage. It does not mean the system has malfunctioned.

### **Immobiliser Indicator Light (without smart key)**



#### **This indicator light illuminates:**

- When the vehicle detects the immobiliser in the key with the ignition switch in the ON position.
  - At this time, you can start the engine.
  - The indicator light goes off after starting the engine.

#### **This indicator light blinks:**

- When there is a malfunction with the immobiliser system.

In this case, we recommend that you have the vehicle inspected by a HYUNDAI authorised repairer.

### **Immobiliser Indicator Light (with smart key)**



#### **This indicator light illuminates for 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.
  - At this time, you can start the engine.
  - The indicator light goes off after starting the engine.

#### **This indicator light blinks for a few seconds:**

- When the smart key is not in the vehicle.
  - At this time, you cannot start the engine.

#### **This indicator light illuminates for 2 seconds and goes off:**

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

In this case, we recommend that you have the vehicle inspected by a HYUNDAI authorised repairer.

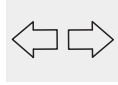
#### **This indicator light blinks:**

- When the battery voltage of the smart key is low.
  - At this time, you cannot start the engine. However, you can start the engine if you press the Engine Start/Stop button with the smart key. **(For more details, refer to "Starting the Engine" in chapter 5).**
- When there is a malfunction with the immobiliser system.

In this case, we recommend that you have the vehicle inspected by a HYUNDAI authorised repairer.



### **Turn Signal Indicator Light**



#### **This indicator light blinks:**

- When you operate the turn signals.

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

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

If any of these conditions occur, we recommend that you have your vehicle inspected by a HYUNDAI authorised repairer.

### **Low Beam Indicator Light (if equipped)**



#### **This indicator light illuminates:**

- When the headlights are on.

### **High Beam Indicator Light**



#### **This indicator light illuminates:**

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

### **High Beam Assist (HBA) Indicator Light (if equipped)**



#### **This warning light illuminates:**

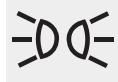
When the high-beam is on with the light switch in the AUTO light position.

- [White] When High Beam Assist is ready to operate.
- [Green] When High Beam Assist is operating.

If your vehicle detects oncoming or preceding vehicles, the High Beam Assist (HBA) system will switch the high beam to low beam automatically.

**For more details, refer to "High Beam Assist (HBA)" in this chapter.**

### **Light ON Indicator Light**



**This indicator light illuminates:**

- When the tail lights or headlamps are on.

### **Rear Fog Indicator Light**



**This indicator light illuminates:**

- When the rear fog lights are on.

### **LED Headlamp Warning Light**



**This warning light illuminates:**

- When you turn the ignition switch or the Engine Start/Stop button to the ON position.
- When there is a malfunction with the LED headlamp.

In this case, we recommend that you have the vehicle inspected by an a HYUNDAI authorised repairer.

**This warning light blinks:**

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

In this case, we recommend that you have the vehicle inspected by an a HYUNDAI authorised repairer.

#### **NOTICE**

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

### **Cruise Indicator Light (if equipped)**



**This indicator light illuminates:**

- When cruise control is enabled.

**For more details, refer to "Cruise Control (CC)" in chapter 5.**

### **Cruise SET Indicator Light (if equipped)**



**This indicator light illuminates:**

- When the cruise control speed is set.

**For more details, refer to "Cruise Control System" in chapter 5.**

**SPORT Mode Indicator Light**



This indicator light illuminates:

- When you select "SPORT" mode as drive mode.

For more details, refer to "Drive Mode Integrated Control System" in chapter 5.

**ECO Mode Indicator Light**



This indicator light illuminates:

- When you select "ECO" mode as drive mode.

For more details, refer to "Drive Mode Integrated Control System" in chapter 5.

**N Mode Indicator Light**



This indicator light illuminates:

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

For more details, refer to "Drive Mode Integrated Control System" in chapter 5.

**CUSTOM Mode Indicator Light**



This indicator light illuminates:

- When you select "CUSTOM" mode as drive mode.

For more details, refer to "Drive Mode Integrated Control System" in chapter 5.

**REV (Rev Matching) Indicator Light**



This indicator light illuminates:

[White] When Rev Matching is turned on in NORMAL mode.

[Yellow] When Rev Matching is turned on in SPORT mode.

[Red] When Rev Matching is turned on in N mode.

For more details, refer to "Rev Matching" in chapter 5.

**Forward Collision-Avoidance Assist warning light (if equipped)**



**This indicator light illuminates:**

- When you set the ignition switch or Engine Start/Stop button to the ON position.
  - It illuminates for approximately 3 seconds and then goes off.
- When there is a malfunction with FCA.

In this case, we recommend that you have the vehicle inspected by a HYUNDAI authorised repairer.

**For more information, refer to "Forward Collision-Avoidance Assist (FCA)" in chapter 5.**

**Lane Departure Warning (LDW) Indicator Light (if equipped)**



**This indicator light illuminates:**

- [Green] When you activate the lane departure warning.
- [White] When system operating conditions are not satisfied.
- [Yellow] When there is a malfunction with the lane departure warning.

In this case, we recommend that you have the vehicle inspected by a HYUNDAI authorised repairer.

**For more details, refer to "Lane Departure Warning (LDW)" in chapter 5.**

**Lane Keeping Assist (LKA) 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 lane keeping assist.

In this case, we recommend that you have your vehicle inspected by a HYUNDAI authorised repairer.

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

### ***Icy Road Warning Light (if equipped)***



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

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

#### ***i* Information**

**If the icy road warning light appears whilst driving, you should drive more attentively and safely refraining from over-speeding, rapid acceleration, sudden braking or sharp turning, etc.**

### **LCD display messages**

#### ***Shift to P (for smart key system and dual clutch transmission)***

This warning message is displayed if you try to turn off the engine without the shift lever in P (Park) position. At this time, the Engine Start/Stop button turns to the ACC position (If you press the Engine Start/Stop button once more, it will turn to the ON position).

#### ***Low Key Battery (for smart key system)***

This warning message is displayed if the battery of the smart key is discharged whilst changing the Engine Start/Stop button to the OFF position.

#### ***Press START whilst turning wheel (for smart key system)***

This warning message is displayed if the steering wheel does not unlock normally when the Engine Start/Stop button is pressed.

You should press the Engine Start/Stop button whilst turning the steering wheel right and left.

#### ***Steering wheel unlocked (for smart key system)***

This warning message is displayed if the steering wheel is not locked whilst the Engine Start/Stop button changes to the OFF position.

#### ***Check Steering Wheel Lock System (for smart key system)***

This warning message is displayed if the steering wheel does not lock normally whilst the Engine Start/Stop button changes to the OFF position.

***Press brake pedal to start engine (for smart key system and dual clutch transmission)***

This warning message is displayed if the Engine Start/Stop button changes to the ACC position twice by pressing the button repeatedly without depressing the brake pedal.

You can start the vehicle by depressing the brake pedal

***Press clutch pedal to start engine (for smart key system and manual transmission)***

This warning message is displayed if the Engine Start/Stop button is in the ACC position twice by pressing the button repeatedly without depressing the clutch pedal.

Depress the clutch pedal to start the engine.

***Key not in vehicle (for smart key system)***

This warning message is displayed if the smart key is not in the vehicle when you press the Engine Start/Stop button.

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

***Key not detected (for smart key system)***

This warning message is displayed if the smart key is not detected when you press the Engine Start/Stop button.

***Press START button with key (for smart key system)***

This warning message is displayed if you press the Engine Start/Stop button whilst the warning message “Key not detected” is displayed.

At this time, the immobiliser indicator light blinks.

***Press START button again (for smart key system)***

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, we recommend that you have your vehicle inspected by a HYUNDAI authorised repairer.

***Check BRAKE SWITCH fuse (for smart key system and dual clutch transmission)***

This warning message is displayed if the brake switch fuse is disconnected.

You need to replace the fuse with a new one. If that is not possible, you can start the engine by pressing the Engine Start/Stop button for 10 seconds in the ACC position.

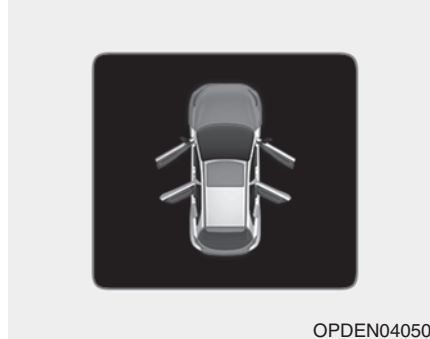
**Shift to P or N to start engine  
(for smart key system and dual  
clutch transmission)**

This warning message is displayed if you try to start the engine with the shift lever not in the P (Park) or N (Neutral) position.

**i Information**

You can start the engine with the shift lever in the N (Neutral) position. But, for your safety, we recommend that you start the engine with the shift lever in the P (Park) position.

**Door, Bonnet, Tailgate open**

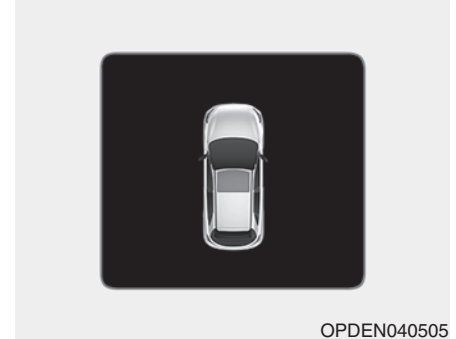


This warning is displayed indicating which door, or bonnet, or tailgate is open.

**⚠ CAUTION**

**Before driving the vehicle, you should confirm that the door/bonnet/tailgate are fully closed. Also, check there is no door/bonnet/tailgate open warning light or message displayed on the instrument cluster.**

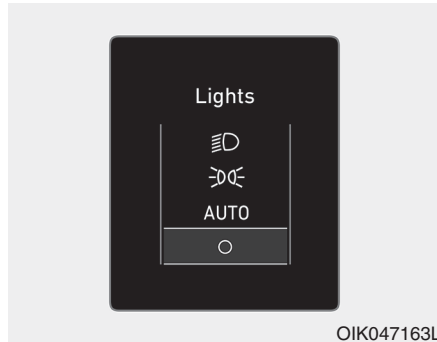
**Sunroof open (if equipped)**



This warning is displayed if you turn off the engine when the sunroof is open.

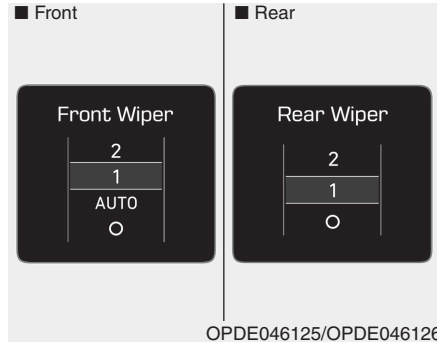
Close the sunroof securely when leaving your vehicle.

### Lights mode



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

### Wiper mode



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

### Low Pressure (if equipped)

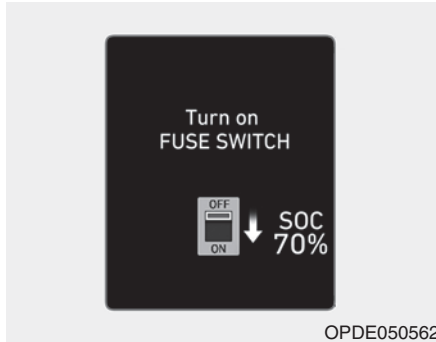


This warning message is displayed if the tyre pressure is low.

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



**Turn on FUSE SWITCH**



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This warning message is displayed if the fuse switch located on the fuse box under the steering wheel is OFF. You should turn the fuse switch on.

**For more details, refer to “Fuses” in chapter 7.**

**Check power steering  
(if equipped)**



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This warning message is displayed when there is a malfunction with the EPS.

The warning message is on in driving, there is malfunction with the EPS. We recommend that you have the vehicle inspected by a HYUNDAI authorised repairer.

**Heated Steering Wheel turned off  
(if equipped)**

This message is displayed if you turn off the heated steering wheel.

**For more details, refer to “Heated Steering Wheel” in this chapter.**

**Low Washer Fluid (if equipped)**

This warning message is displayed if the washer fluid level in the reservoir is nearly empty.

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 low fuel level warning light in the cluster will come on.

It is recommended to look for the nearest fuelling station and refuel as soon as possible.

Add fuel as soon as possible.

### ***Engine has overheated (if equipped)***

This warning message is displayed when the engine coolant temperature is above 120°C (248°F). This means that the engine is overheated and may be damaged.

**If your vehicle is overheated, refer to “Overheating” in chapter 6.**

### ***Check exhaust system (if equipped)***

This warning message illuminates if the GPF system has a malfunction. At this time, GPF warning light also blinks.

In this case, we recommend that you have the GPF system checked by a HYUNDAI authorised repairer.

GPF : Gasoline (Petrol) Particulate Filter

**For more details, refer to “Warning lights” in this chapter.**

### ***Check headlight (if equipped)***

This warning message is displayed if the headlamps are not operating properly. A headlamp bulb may need to be replaced.

#### ***i* 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 headlamps. We recommend that you have the vehicle inspected by a HYUNDAI authorised repairer.

### ***Check headlamp FAN (if equipped)***

This warning message is displayed if there is a problem with the headlamps fan. We recommend that you have the vehicle inspected by a HYUNDAI authorised repairer.

### ***Check HBA (High Beam Assist) system (if equipped)***

This warning message is displayed if there is a problem with High Beam Assist (HBA). We recommend that you have the vehicle inspected by a HYUNDAI authorised repairer.

**For more information, refer to “High Beam Assist (HBA)” in chapter 3.**

### ***Check FCA (Forward Collision Avoidance Asst.) (if equipped)***

This warning message is displayed if there is a malfunction with Forward Collision-Avoidance Assist (FCA). We recommend that you have the vehicle inspected by a HYUNDAI authorised repairer.

**For more details, refer to “Forward Collision-Avoidance Assist (FCA)” in chapter 5.**

### ***Check LDW (Lane Departure Warning) (if equipped)***

This warning message is displayed if there is a problem with Lane Departure Warning (LDW). We recommend that you to have the vehicle inspected by a HYUNDAI authorised repairer.

**For more details, refer to “Lane Departure Warning (LDW)” in chapter 5.**

### ***Check LKA (Lane Keep Assist) (if equipped)***

This warning message is displayed if there is a problem with Lane Keeping Assist (LKA). We recommend that you have the vehicle inspected by a HYUNDAI authorised repairer.

**For more information, refer to “Lane Keeping Assist (LKA)” in chapter 5.**

### ***Check DAW (Driver Attention Warning) system (if equipped)***

This warning message is displayed if there is a problem with Driver Attention Warning (DAW). We recommend that you have the vehicle inspected by a HYUNDAI authorised repairer.

**For more information, refer to “Driver Attention Warning (DAW) system” in chapter 5.**

***Tyre size mismatch.******Check tyre sizes***

This warning message is displayed when different tyres (size, type, etc.) are detected between front and rear. To use the Electronic Limited Slip Differential, equip the vehicle with the same tyres on front and rear.

**For more details, refer to "Electronic Limited Slip Differential" in chapter 5.**

***Check limited slip differential***

This warning message is displayed if there is a problem with the Limited Slip Differential system.

We recommend that you have the vehicle inspected by a HYUNDAI authorised repairer.

**For more details, refer to "Electronic Limited Slip Differential" in chapter 5.**

***Check ECS***

This warning message is displayed if there is a problem with the Electronic Control Suspension (ECS) system.

We recommend that you have the vehicle inspected by a HYUNDAI authorised repairer.

**For more details, refer to "Electronic Control Suspension (ECS)" in chapter 5.**

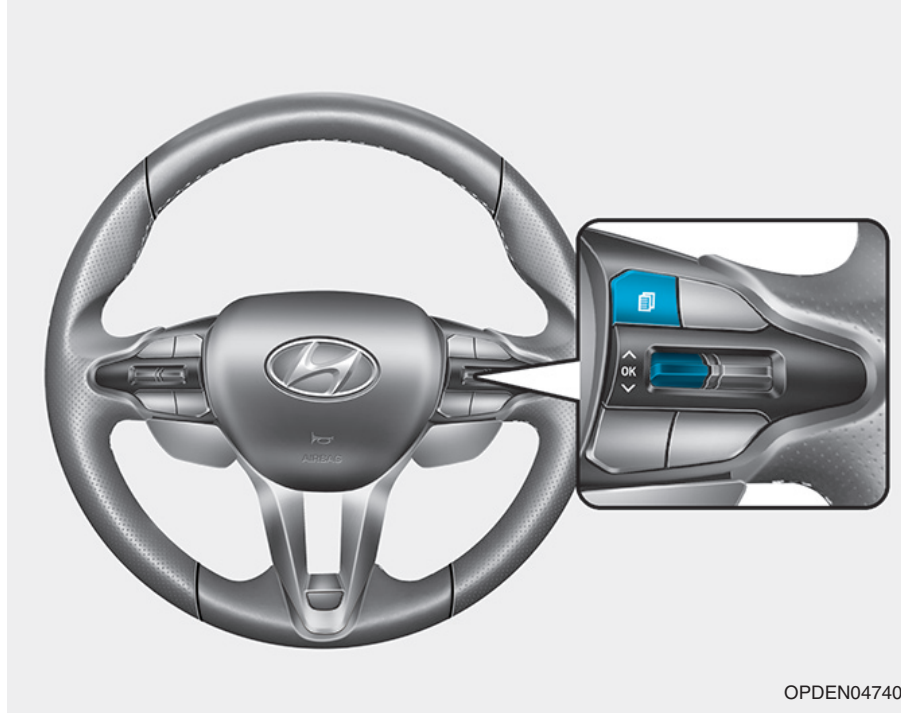
***Beware of engine damage when shifting whilst in high RPM***

If transmission input rpm is too high (over rev limit) due to shifting, a warning message will appear and a warning chime will sound.

**For more details, refer to "Rev Matching" in chapter 5.**




## LCD DISPLAY

### LCD display control








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

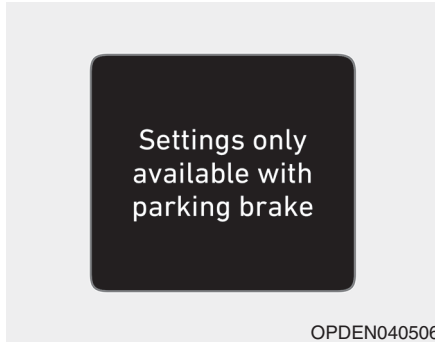
- (1)  : MODE button for changing modes
- (2)  ,  : MOVE switch for changing items
- (3) OK : SELECT/RESET button for setting or resetting the selected item

## LCD display modes

Modes	Symbol	Explanation
Trip Computer		This mode displays driving information such as the tripmeter, fuel economy, etc. For more details, refer to "Trip Computer" in this chapter.
Turn By Turn (TBT)		This mode displays the state of the navigation.
Driving Assist		<p>This mode displays the state of :</p> <ul style="list-style-type: none"> <li>- Oil Temperature, Torque, Turbo Boost</li> <li>- Lap Timer</li> <li>- G-Force</li> <li>- Lane Keeping Assist</li> <li>- Lane Departure Warning</li> <li>- Driver Attention Warning</li> <li>- Tyre Pressure</li> </ul> <p><b>For more details, refer to "Lane Departure Warning (LDW)", "Lane Keeping Assist (LKA)", "Driver Attention Warning (DAW) system" in chapter 5 and "Tyre Pressure Monitoring System (TPMS)" in chapter 6.</b></p>
User Settings		In this mode, you can change settings of the doors, lamps, etc.
Warning		This mode displays warning messages related to Forward Collision-Avoidance Assist, etc.

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

### **Settings available after engaging parking brake**



This warning message illuminates if you try to select an item from the User Settings mode whilst driving.

For your safety, change the User Settings after engaging the parking brake.

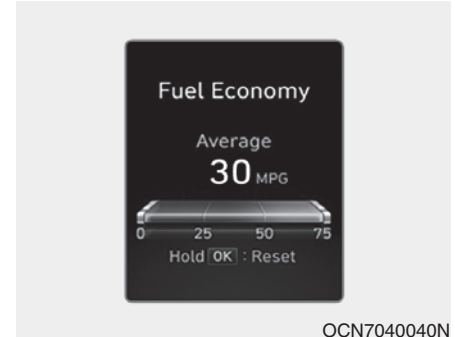
### **Quick guide (Help, if equipped)**

This mode provides quick guides for the systems in the User Settings mode.

Select an item, press and hold the OK button.

**For more details about each system, refer to this Owner's Manual.**

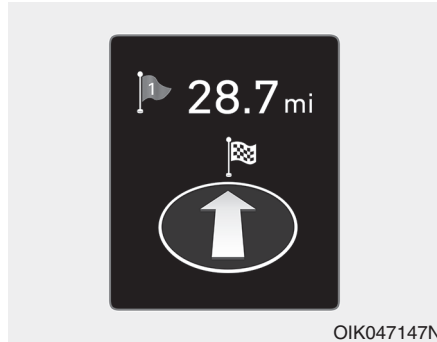
### **Trip computer mode**



The trip computer mode displays information related to vehicle driving parameters including fuel economy, tripmeter information and vehicle speed.

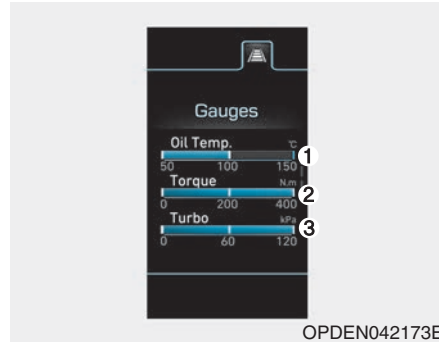
**For more details, refer to "Trip Computer" in this chapter.**

## Turn By Turn (TBT) mode



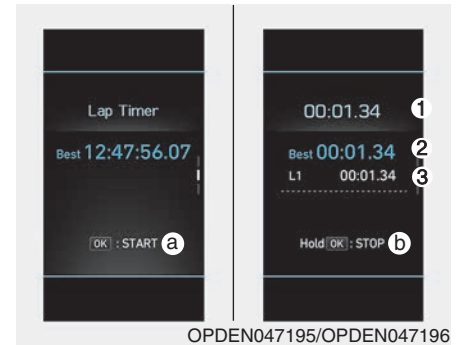
This mode displays the state of the navigation.

## Driving Assist mode



### Gauges

This mode displays information related to your engine such as engine oil temperature (1), current torque (2) and boost pressure (3).



### Lap timer

- (1) Total time
- (2) Best lap
- (3) Current lap

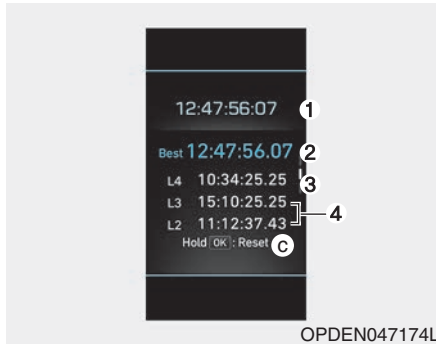
### To start (a):

Press the OK button shortly on the steering wheel. The lap timer will start counting the current lap (3).

### To stop (b):

Press and hold the OK button for more than 1 second on the steering wheel whilst the lap timer is counting the current lap (3).





### To reset (c):

Press and hold the OK button for more than 1 second on the steering wheel when the lap timer has stopped counting the current lap (3). If the OK button is pressed shortly, the lap timer will continue counting from the time it has been stopped.

### To save laps:

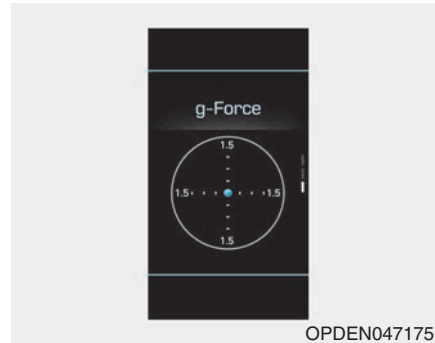
Press the OK button shortly on the steering wheel whilst the lap timer is counting the current lap (3).

The timer can save L1~ L100 (4).

The best lap (2) will be displayed automatically.

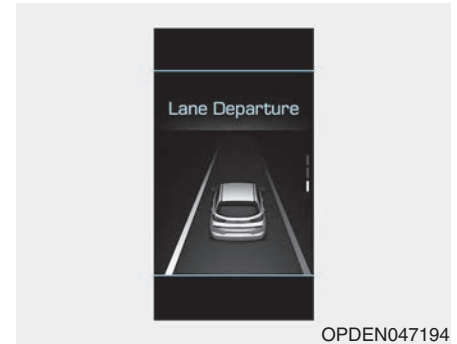
The saved laps can be reset when the current lap is reset.

To start a new lap press the OKAY button when the current lap is reset.



### G-Force

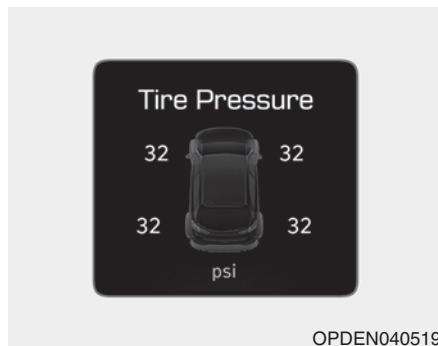
This mode displays the force delivered to the vehicle laterally whilst the vehicle is in motion.



### LKA/LDW/DAW

This mode displays the state of the Cruise Control, Lane Departure Warning/Lane Keeping Assist and Driver Attention Warning.

**For more details, refer to each system information in chapter 5.**

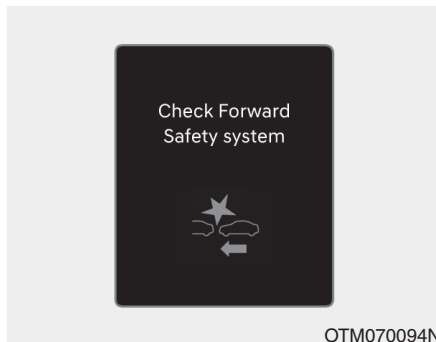


### Tyre Pressure

This mode displays information related to Tyre Pressure.

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

### Warning message mode



If one of followings occurs, warning messages will be displayed on the LCD display for several seconds.

- LED head lamp malfunction
- High Beam Assist (HBA) malfunction (if equipped)
- Forward Collision-Avoidance Assist (FCA) malfunction (if equipped)
- Intelligent Speed Limit Warning (ISLW) malfunction (if equipped)

### User settings mode

In this mode, you can change the settings of the instrument cluster, doors, lamps, etc.

1. Driver assistance
2. Door
3. Lights
4. Sound
5. Convenience
6. Service interval
7. Other features
8. Reset

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

### 1. Driver Assistance

Items	Explanation
Driving assist	<ul style="list-style-type: none"> <li>• Lane Following Assist</li> </ul> To activate or deactivate the Lane Following Assist. <b>For more details, refer to the “Lane Following Assist (LFA)” in chapter 5.</b>
Warning timing	To adjust the warning timing of driver assistance system. - Normal / Late
Warning volume	To adjust the warning volume of driver assistance system. - High / Medium / Low
DAW (Driver Attention Warning)	<ul style="list-style-type: none"> <li>• Leading vehicle departure alert</li> </ul> To activate or deactivate the Leading vehicle departure alert. <ul style="list-style-type: none"> <li>• Driver Attention Warning</li> </ul> To activate or deactivate the Driver Attention Warning. <b>For more information, refer to the "Driver Attention Warning" in chapter 5.</b>
Forward safety	To adjust Forward Collision-Avoidance Assist. - Active assist / Warning only / Off <b>For more details, refer to the "Forward Collision-Avoidance Assist (FCA)" in chapter 5.</b>
Lane safety	To adjust the Lane Keeping Assist. - Lane Keeping Assist / Lane Departure Warning / Off <b>For more details, refer to the "Lane Keeping Assist (LKA)" in chapter 5.</b>

## 1. Driver Assistance

Items	Explanation
Blind-spot safety	<ul style="list-style-type: none"> <li>• Blind-Spot View To activate or deactivate the Blind-Spot View Monitor. <b>For more details, refer to the "Blind-Spot View" in chapter 5.</b></li> <li>• SEA(Safe Exit Assist) To activate or deactivate Safe Exit Assist. <b>For more details, refer to the "Safe Exit Assist (SEA)" in chapter 5.</b></li> <li>• Blind-Spot Collision-Avoidance Assist - Active assist / Warning only / Off <b>For more details, refer to "Blind-Spot Collision-Avoidance Assist (BCA)" or "Blind-Spot Collision Warning (BCW)" in chapter 5.</b></li> </ul>
Parking safety	<ul style="list-style-type: none"> <li>• Rear Cross-Traffic Safety To Activate or deactivate Rear Cross-Traffic Collision-Avoidance Assist. <b>For more details, refer to "Rear Cross-Traffic Collision-Avoidance Assist (RCCA)" in chapter 5.</b></li> </ul>
Driving Safety Auto Off in N mode	<p>If N mode is selected, the driving safety systems will automatically switch off. For more details, refer to chapter 5.</p>

### 2. Door

Items	Explanation
Auto Lock	<ul style="list-style-type: none"> <li>• Disable : The auto door lock operation will be deactivated.</li> <li>• Enable on Speed: All doors will be automatically locked when the vehicle speed exceeds 15km/h (9.3mph).</li> <li>• Enable on Shift: All doors will be automatically locked if the gear is shifted from the P (Park) position to the R (Reverse), N (Neutral), or D (Drive) position. (Only when the vehicle is in the ready mode)</li> </ul>
Auto Unlock	<ul style="list-style-type: none"> <li>• Disable: The auto door unlock operation will be cancelled. (if equipped with smart key)</li> <li>• Vehicle Off: All doors will be automatically unlocked when the POWER button is set to the OFF position.</li> <li>• On Shift to P: All doors will be automatically unlocked if the gear is shifted to the P (Park) position. (Only when the vehicle is in the ready mode)</li> </ul>
Two press unlock	<ul style="list-style-type: none"> <li>• Off: The two press unlock function will be deactivated. Therefore, all doors will unlock if the door unlock button is pressed.</li> <li>• On: Only the driver's door will unlock if the door unlock button is pressed. When the door unlock button is pressed again within 4 seconds, the remaining doors will unlock.</li> </ul>
Lock/Unlock sound	<p>To activate or deactivate the lock/unlock sound. If you lock the door with a remote control key again after locking the door, the alarm beeps.</p>

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

### 3. Lights

Items	Explanation
One touch turn signal	<ul style="list-style-type: none"> <li>• Off: The one touch turn signal function will be deactivated.</li> <li>• 3, 5, 7 Flashes: The turn signal indicator will blink 3, 5, or 7 times when the turn signal lever is moved slightly.</li> </ul> <p><b>For more details, refer to "Lighting" in this chapter.</b></p>
Headlight Delay	<p>To activate or deactivate the headlight delay function.</p> <p><b>For more details, refer to "Lighting" in this chapter.</b></p>
High beam Assist	<p>To activate or deactivate High Beam Assist.</p> <p><b>For more details, refer to "High Beam Assist (HBA)" in this chapter.</b></p>

### 4. Sound

Items	Explanation
Parking Distance Warning Volume	<p>To adjust the Distance Warning system volume.</p> <p>- Softer/Louder</p>
Welcome sound	<p>To activate or deactivate the welcome sound.</p>

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

### 5. Convenience

Items	Explanation
Seat Easy Access	<ul style="list-style-type: none"> <li>• Off: The seat easy access function is deactivated.</li> <li>• Normal/Extended: When you turn off the vehicle, the driver's seat will automatically move rearward short (Normal) or long (Extended) for you to enter or exit the vehicle more comfortably.</li> </ul> <p><b>For more details, refer to "Driver Position Memory System" in this chapter.</b></p>
Welcome Mirror/Light	<p>To activate or deactivate the welcome mirror and/or light function.</p> <p><b>For more details, refer to "Welcome System" in this chapter.</b></p>
Wireless Charging System	<p>To activate or deactivate the wireless charging system in the front seat.</p> <p><b>For more details, refer to "Wireless Charging System" in this chapter.</b></p>
Wiper/Lights Display	<p>To activate or deactivate the Wiper/Light mode.</p> <p>When activated, the LCD display shows the selected Wiper/Light mode whenever you changed the mode.</p>
Auto rear wiper (reverse)	<p>To activate or deactivate the rear wiper whilst the vehicle is in reverse with the front wiper ON.</p> <p><b>For more details, refer to "Wipers and Washers" in this chapter.</b></p>
Icy Road Warning	<p>To activate or deactivate the icy road warning.</p>

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

## 6. Service interval

Items	Explanation
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.
Reset	To reset the service interval.

### Information

To use the service interval menu, we recommend you consult a **HYUNDAI** authorised repairer.

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)

Items	Explanation
Fuel Economy Auto Reset	<ul style="list-style-type: none"> <li>• Off: The average fuel economy will not reset automatically whenever refuelling.</li> <li>• After Ignition: When the engine has been OFF for 4 hours or longer the average fuel economy will reset automatically.</li> <li>• After refuelling: The average fuel economy will reset automatically after adding 1.6 gallons (6 litres) of fuel or more and after driving speed exceeds 1 mph (1 km/h).</li> </ul> <p><b>For more details, refer to "Trip Computer" in this chapter.</b></p>
Fuel Economy Unit	To select the fuel economy unit. (km/L, L/100km, MPG)
Temperature Unit	To select the temperature unit. (°C, °F)
Turbo boost pressure unit	To select the turbo boost pressure unit. (psi/kPa/bar)
Torque unit	To select the torques unit. (Nm/lb-ft)
Tyre Pressure Unit	To select the tyre pressure unit. (psi, kPa, bar)

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

## 8. Language (if equipped)

Items	Explanation
Language	Choose the language.

## 9. Reset

Items	Explanation
Reset	You can reset the menus in the User Settings Mode. All menus in the User Settings Mode are reset to factory settings, except language and service interval.

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

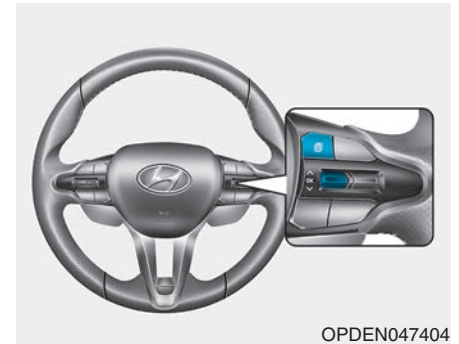
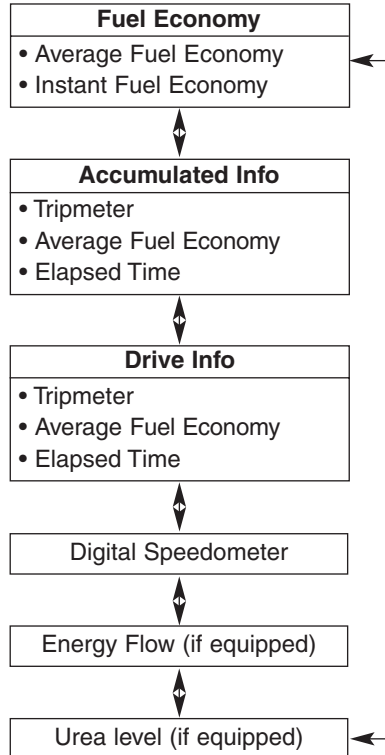
## TRIP COMPUTER

The trip computer is a microcomputer-controlled driver information system that displays information related to driving.

### **i** Information

Some driving information stored in the trip computer (for example Average Vehicle Speed) resets if the battery is disconnected.

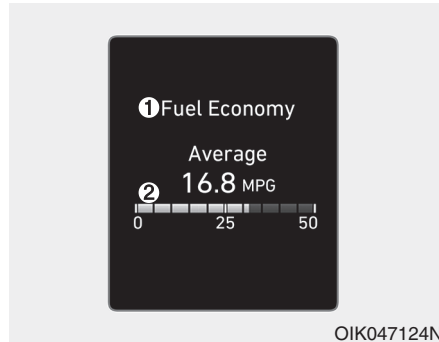
### Trip modes



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To change the trip mode, toggle the “^, v” switch on the steering wheel.

## Fuel economy



### Average Fuel Economy (1)

- The average fuel economy is calculated by the total driving distance and fuel consumption since the last average fuel economy reset.
- The average fuel economy can be reset both manually and automatically.

### Manual reset

To clear the average fuel economy manually, press the [OK] button on the steering wheel for more than 1 second when the average fuel economy is displayed.

### Automatic reset

To automatically reset the average fuel economy after refuelling, select the "Auto reset" mode in the 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 refuelling: The average fuel economy will reset automatically when driving speed exceeds 1 km/h, after adding 6 litres (1.3 Imp. gal.) of fuel or more.

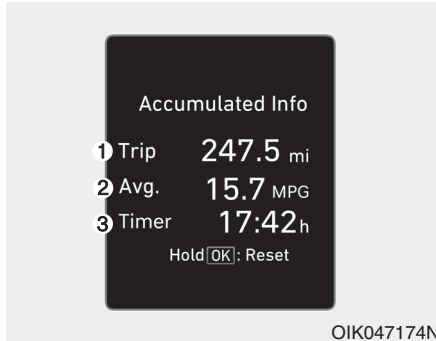
### **i** Information

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 (2)

- 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 accumulated starting from the last reset.

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

The accumulated driving information will continue to be counted whilst 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

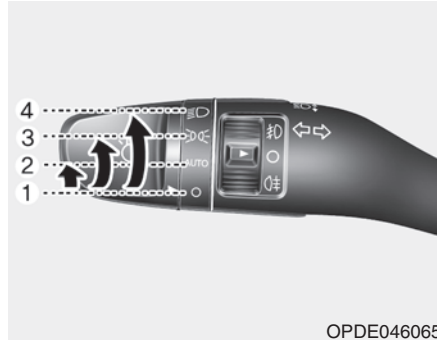


This message shows the speed of the vehicle (km/h, MPH).

## LIGHTING

### Exterior lights

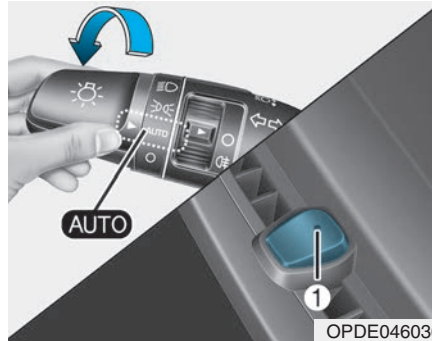
#### Lighting control



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

- (1) O (OFF)
- (2) AUTO light (if equipped)
- (3) Position lamp
- (4) Headlamp



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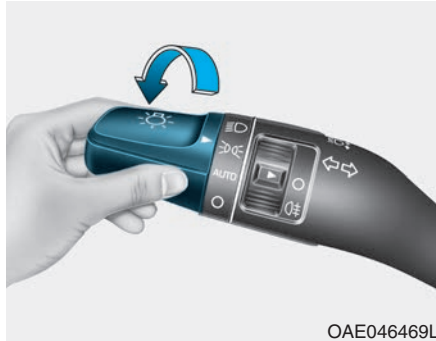
#### AUTO light (if equipped)

When the light switch is in the AUTO position, the position 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 on 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 windscreen, the AUTO light system may not work properly.



OAE046469L

### Position lamp (☀️)

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



OAE046467L

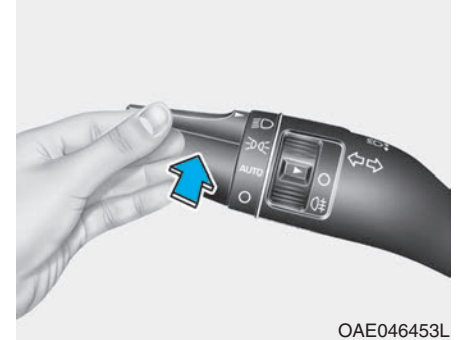
### Headlamp (☀️)

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

### **i** Information

**The ignition switch must be in the ON position to turn on the headlamp.**

### *High beam operation*



OAE046453L

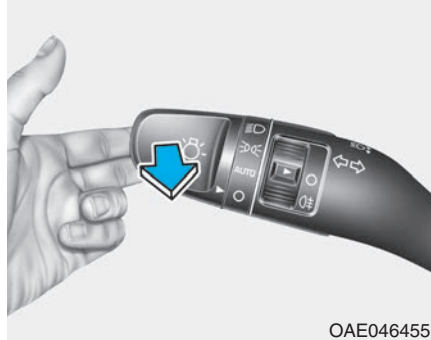
To turn on the high beam headlamp, push the lever away from you. The lever will return to its original position.

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

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

## **⚠ WARNING**

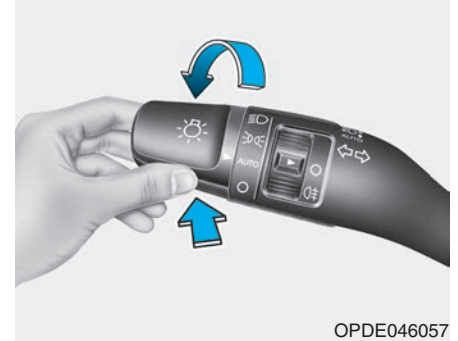
**Do not use high beam when there are other vehicles approaching you. Using high beam could obstruct the other driver's vision.**



OAE046455L

To flash the high beam headlamp, pull the lever towards you, then release the lever. The high beams will remain ON as long as you hold the lever towards you.

## **High Beam Assist (HBA) (if equipped)**




OPDE046057

High Beam Assist is a function that automatically adjusts the headlamp range (switches between high beam and low beam) according to the brightness of other vehicles and road conditions.



### Operating condition

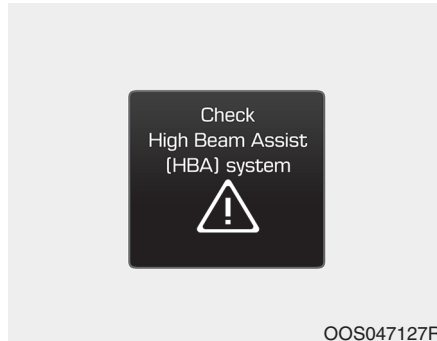
1. Place the light switch in the AUTO position.
2. Turn on the high beam by pushing the lever away from you.  
High Beam Assist (  ) indicator will illuminate.
3. High Beam Assist will turn on when vehicle speed is above 25 mph (45 km/h).
  - If the light switch is pushed away when High Beam Assist is operating, High Beam Assist will turn off and the high beam will be on continuously.
  - If the light switch is pulled towards you when the high beam is off, the high beam will turn on without High Beam Assist cancelled. When you let go of the light switch, the lever will move to the middle and the high beam will turn off.

- If the light switch is pulled towards you when the high beam is on by High Beam Assist, the low beam will be on and High Beam Assist will turn off.
- If the light switch is placed to the headlamp position, High Beam Assist will turn off and the low beam will be on continuously.

When High Beam Assist is operating, the high beam switches to low beam in the following conditions.

- When the headlamp of an on-coming vehicle is detected.
- When the tail lamp of a vehicle in front is detected.
- When the headlamp or tail lamp of a motorcycle or a bicycle is detected.
- When the surrounding ambient light is bright enough that high beams are not required.
- When streetlights or other lights are detected.
- When the light switch is not in the AUTO position.
- When High Beam Assist is off.
- When vehicle speed is below 22 mph (35 km/h).

## Warning light and message



When High Beam Assist is not working properly, the warning message will come on for a few second. After the message disappears, the master warning light (⚠) will illuminate.

We recommend that you take your vehicle to a HYUNDAI authorised repairer and have the system checked.

### ⚠ CAUTION

The function may not operate normally if any of the following conditions should occur:

- 1) When the illumination from an on-coming vehicle or a vehicle in front is dim. Such examples may include:
  - When the headlamps of an oncoming vehicle or the tail lamps of a vehicle in front is covered with dust, snow, or water
  - When the headlamps on an on-coming vehicle are OFF, but the fog lamps are ON)
- 2) When High Beam Assist camera is adversely affected by an external condition. Such examples may include:
  - When the vehicle's headlamps have been damaged or not repaired properly
  - When the vehicle headlamps are not aimed properly

(Continued)

(Continued)

- When the vehicle is driven on a narrow curved road or rough road
- When the vehicle is driven on an uphill road or downhill road
- When only part of the vehicle in front is visible on a cross-road or curved road
- When there is a traffic light, reflecting sign, flashing sign or mirror
- When the road conditions are bad such as being wet or covered with snow
- When a vehicle suddenly appears from a curve
- When the vehicle is tilted from a flat tyre or being towed
- When the Lane Keeping Assist (LKA) warning light illuminates

(Continued)

(Continued)

- 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
- 3) When the forward visibility is poor. Such examples may include:
- When the headlamps of an oncoming vehicle or a vehicle in front is not detected due to poor outside visibility (smog, smoke, dust, fog, heavy rain, snow, etc.)
  - When the windscreen visibility is poor

 **WARNING**

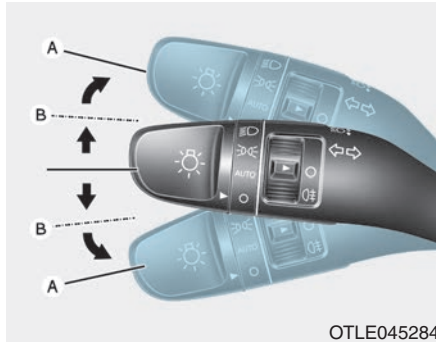
- Do not attempt to disassemble the front view camera without the assistance of a HYUNDAI authorised repairer.  
If camera is removed for any reason, the function may need to be re-calibrated. We recommend that the function be inspected by an authorised HYUNDAI dealer.
- If the windscreen of your vehicle is replaced, most likely the front view camera will need to be re-calibrated. If this occurs, have your vehicle inspected and have the function re-calibrated by a HYUNDAI authorised repairer.
- Be careful that water doesn't get into High Beam Assist unit and do not remove or damage related parts of High Beam Assist.

(Continued)

(Continued)

- Do not place objects on the crash pad that reflect light such as mirrors, white paper, etc. The system may malfunction if sunlight is reflected.
- At times, High Beam Assist may not work properly. The function is for your convenience only. It is the responsibility of the driver for safe driving practices and always check the road conditions for your safety.
- When the function does not operate normally, change the lamp position manually between the high beam and low beam.

## Turn signals and lane change signals



To signal a turn, push down on the lever for a left turn or up for a right turn in position (A). 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 a one-touch turn signal function, move the turn signal lever slightly and then release it. The lane change signals will blink 3, 5 or 7 times.

You can activate/deactivate the One Touch Turn Signal function or choose the number of blinks (3, 5, or 7) from the User Settings mode on the LCD display. **For more details, refer to "LCD Display" in this chapter.**

## Rear fog lamp



To turn on the rear fog lamp:

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

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

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

### **Battery saver function**

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

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

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

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

### **Headlamp delay function**

If you place the ignition switch to the ACC or OFF position with the headlamps ON, the headlamps (and/or position lamps) remain on for about 5 minutes. However, with the engine off if the driver's door is opened and closed, the headlamps (and/or position lamps) are turned off after 15 seconds.

The headlamps (and/or position lamps) can be turned off by pressing the lock button on the remote key or 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 on the LCD display. **For more details, refer to "LCD Display" 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.**

### ***Daytime running light (DRL) (if equipped)***

The Daytime Running Lights (DRL) can make it easier for others to see the front of your vehicle during the day, especially after dawn and before sunset.

The DRL system will turn the dedicated lamp OFF when:

1. The headlamps or front fog lights are in the ON position.
2. The position light switch is in the ON position.
3. The engine is turned off.

### ***Headlamp levelling device (if equipped)***



#### **Manual type**

To adjust the headlamp beam level according to the number of the passengers and loading weight in the luggage area, turn the beam levelling switch.

The higher the number on the switch position, the lower the headlamp beam level. Always keep the headlight beam at the proper levelling position, or headlamps may dazzle other road users.

Listed below are examples of appropriate switch settings for varying loads. For loading conditions other than those listed, adjust the switch position to the most similar situation.

<b>Loading condition</b>	<b>Switch position</b>
Driver only	0
Driver + Front passenger	0
Full passengers (including driver)	1
Full passengers (including driver) + Maximum permissible loading	2
Driver + Maximum permissible loading	3

### Automatic type

It automatically adjusts the headlamp beam level according to the number of passengers and loading weight in the luggage area.

It also adjusts to the appropriate headlamp beam level for various situations.

### **⚠ WARNING**

**If the function does not work properly, we recommend that the system be inspected by a HYUNDAI authorised repairer. Do not attempt to inspect or replace the wiring yourself.**

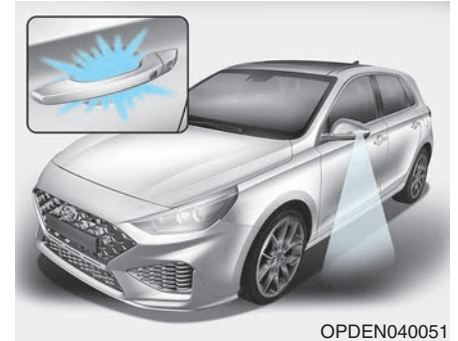
### Static bending light (if equipped)

Whilst driving a corner, for greater visibility and safety, either the left or right side static bending light will turn on automatically. The static bending light will turn on when one of the following conditions occur.

- Vehicle speed is less than 6 mph (10 km/h) and steering wheel angle is turned approximately 80 degrees with the low beam on.
- Vehicle speed is between 6 mph (10 km/h) to 56 mph (90 km/h) and steering wheel angle is turned approximately 35 degrees with the low beam on.
- When the vehicle is in reverse with one of the conditions above satisfied, the light opposite to the direction the steering wheel is steered will turn on.

### Welcome system (if equipped)

#### **Welcome light (if equipped)**



#### **Puddle lamp (if equipped)**

When all the doors (and tailgate) are closed and locked, the puddle lamp will come on for about 15 seconds if any of the below is performed.

- When the door unlock button is pressed on the remote key or smart key.
- When the button of the outside door handle is pressed with the smart key in possession.

### Door handle lamp (if equipped)

When all the doors (and tailgate) 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 remote key or smart key.
- When the button of the outside door handle is pressed with the smart key in possession.

### Headlamp and position lamp

When the headlamp (lamp switch in the headlamp or AUTO position) is on and all doors (and tailgate) are locked and closed, the position lamp and headlamp will come on for 15 seconds when the door unlock button is pressed on the remote key or smart key.

At this time, if you press the door lock or unlock button, the position lamp and headlamp will turn off immediately.

You can activate or deactivate the Welcome Light from the User Settings mode on the LCD display. **For more details, refer to "LCD Display" in this chapter.**

### Interior lamp

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

- When the door unlock button is pressed on the remote key or smart key.
- When the button of the outside door handle is pressed with the smart key in possession.

At this time, if you press the door lock or unlock button, the room lamp will turn off immediately.



### Interior lights

#### NOTICE

Do not use the interior lights for extended periods when the engine is turned off otherwise the battery will discharge.

#### ⚠ WARNING

Do not use the interior lights when driving in the dark. The interior lights may obscure your view and cause an accident.

### Interior lamp AUTO cut

The interior lamps will automatically go off approximately 20 minutes after the engine is turned off and the doors are closed. If a door is opened, the lamp will go off 40 minutes after the engine is turned off. If the doors are locked 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

### Front map lamp

Press the map lamp lens (1) to turn ON the map lamp. Re-press the map lamp lens to turn OFF the map lamp.

### Front room lamp

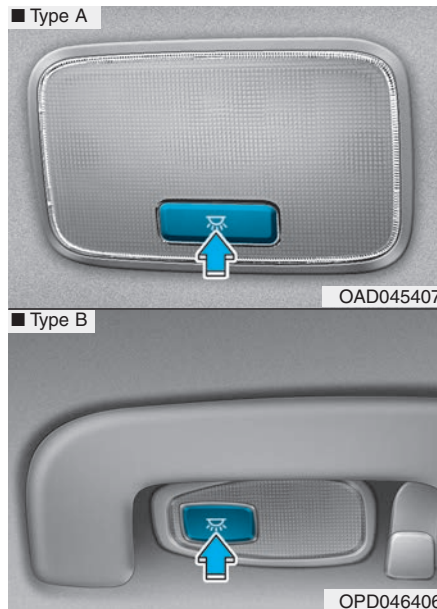
-  :  
Press the button to turn ON the room lamp for the front/rear seats.
-  :  
Press the button to turn OFF the room lamp for the front/rear seats.

### Front door lamp ( )

The room lamp for the front/rear seats is automatically turned ON for approximately 30 seconds, when a door is opened.

The room lamp for the front/rear seats is automatically turned ON for approximately 15 seconds, when the remote key (smart key) unlocks the doors. The room lamp fades out, when the ignition switch is placed to the ON position in 15 seconds. The room lamp remains ON up to 20 minutes, when a door is opened with the ignition switch in the either the ACC or OFF position.

### Rear lamps



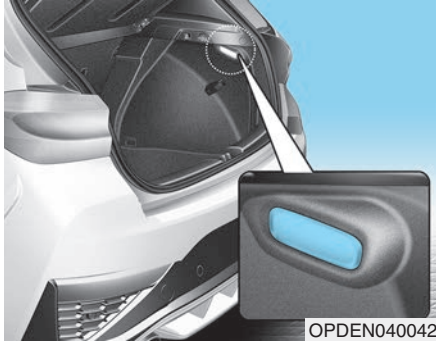
### Rear room lamp switch :

Press this button to turn the room lamp on and off.

### NOTICE

**Do not leave the lamp switches on for an extended period of time when the engine is turned off.**

### Luggage compartment lamp



The luggage compartment lamp comes on when the tailgate is opened.



#### **NOTICE**

The luggage compartment lamp comes on as long as the tailgate is open. To prevent unnecessary charging system drain, close the tailgate securely after using the tailgate.

### Vanity mirror lamp (if equipped)



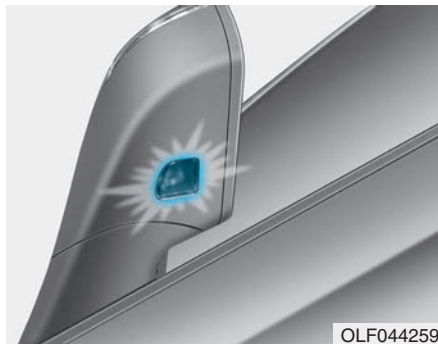
Push the switch to turn the light on or off.

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

#### **NOTICE**

Always have the switch in the off position when the vanity mirror lamp is not in use. If the sunvisor is closed without the lamp off, it may discharge the battery or damage the sunvisor.

### ***Puddle lamp (if equipped)***



### **Welcome light**

When all doors (and tailgate) are closed and locked, the puddle lamp will come on for 15 seconds if the door is unlocked by the smart key or outside door handle button.

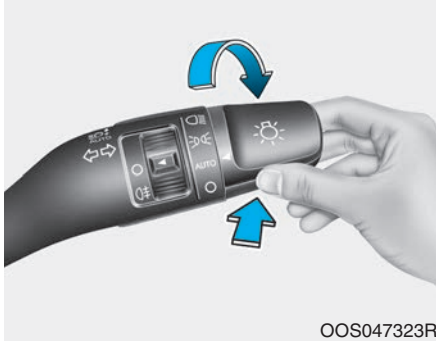
**For more details, refer to "Welcome System" in this chapter.**

### **Escort light**

When the ignition switch is in the OFF position and the driver's door is opened, the puddle lamp will come on for 30 seconds. If the driver's door is closed within the 30 seconds, the puddle lamp will turn off after 15 seconds. If the driver's door is closed and locked, the puddle lamp will turn off immediately.

The Puddle Lamp Escort Light will turn on only the first time the driver's door is opened after the engine is turned off.

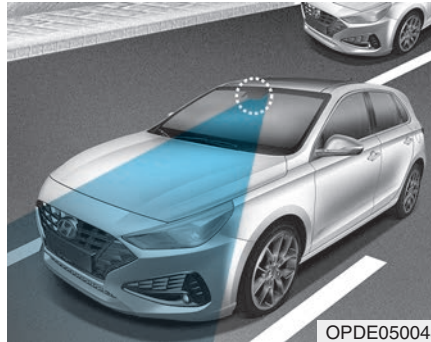
## HIGH BEAM ASSIST (HBA) (IF EQUIPPED)



OOS047323R

High Beam Assist is a function that automatically adjusts the headlamp range (switches between high beam and low beam) depending on the brightness of detected vehicles and certain road conditions.

### *Detecting sensor*



OPDE050048

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

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

### **NOTICE**

**Always keep the front view camera in good condition to maintain optimal performance of High Beam Assist.**

**For more details on the precautions of the front view camera, refer to “Forward Collision-Avoidance Assist (FCA)” section in chapter 5.**

## Function setting



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

### WARNING

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

## Function operation

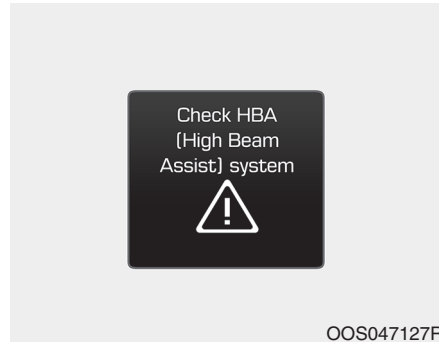
### *Display and control*

- After selecting 'High Beam Assist' in the Settings menu, High Beam Assist will operate by following the procedure below.
  - Place the headlamp switch in the AUTO position and push the headlamp lever towards the instrument cluster. High Beam Assist () indicator light will illuminate on the cluster and the function will be enabled.
  - When the function is enabled, high beam will turn on when vehicle speed is above 40 km/h . When vehicle speed is below 30 km/h, high beam will not turn on.
  - The High Beam () indicator light will illuminate on the cluster when high beam is on.
- When High Beam Assist is operating, if the headlamp lever or switch is used, the function operates as follow:
  - If the headlamp lever is pulled towards you when the high beam is off, the high beam will turn on without High Beam Assist cancelled. When you let go of the headlamp lever, the lever will move to the middle and the high beam will turn off.
  - If the headlamp lever is pulled towards you when the high beam is on by High Beam Assist, low beam will be on and the function will turn off.
  - If the headlamp switch is placed from AUTO to another position (headlamp/position/off), High Beam Assist will turn off and the corresponding lamp will turn on.

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

### Function malfunction and limitations

#### Function malfunction



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

#### Limitations of the function

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

- Light from a vehicle is not detected because of lamp damage, or because it is hidden from sight, etc.
- Headlamp of a vehicle is covered with dust, snow or water.
- A vehicle's headlamps are off but the fog lamps are on and etc.
- There is a lamp that has a similar shape as a vehicle's lamp.
- Headlamps have been damaged or not repaired properly.
- Headlamps are not aimed properly.
- Driving on a narrow curved road, rough road, uphill or downhill.
- Vehicle in front is partially visible on a crossroad or curved road.
- There is a traffic light, reflecting sign, flashing sign or mirror ahead.

- There is a temporary reflector or flash ahead (construction area).
- The road conditions are bad such as being wet, iced or covered with snow.
- A vehicle suddenly appears from a curve.
- The vehicle is tilted from a flat tyre or is being towed.
- Light from a vehicle is not detected because of exhaust fume, smoke, fog, snow, etc.

#### **NOTICE**

**For more details on the limitations of the front view camera, refer to “Forward Collision-Avoidance Assist (FCA)” section in chapter 5.**

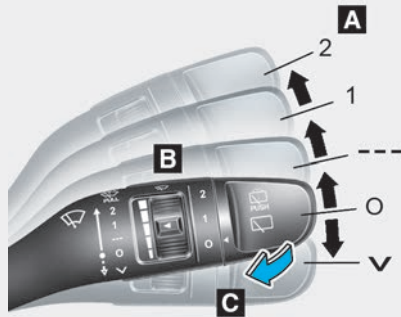
#### **WARNING**

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



## WIPERS AND WASHERS

### ■ Front windscreen wiper/washer



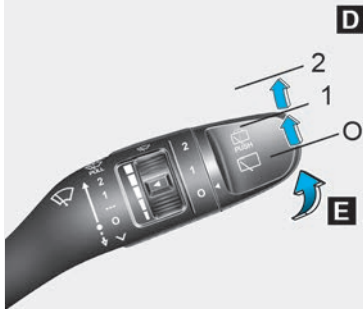
#### A : Wiper speed control (front)

- ∨ – Single wipe
- ○ – Off
- --- – Intermittent wipe  
AUTO\* – Auto control wipe
- 1 – Low wiper speed
- 2 – High wiper speed

#### B : Intermittent control wipe time adjustment

#### C : Wash with brief wipes (front) (pull lever towards you)

### ■ Rear windscreen wiper/washer



#### D : Rear wiper control\*

- 2 – High wiper speed
- 1 – Low wiper speed
- ○ – Off

#### E : Wash with brief wipes (rear) (push lever away from you)

\* : if equipped

OPDE046058/OPDE046060

## Windscreen wipers

Operates as follows when the ignition switch is turned ON.

∨ : For a single wiping cycle, move the lever down and release it. The wipers will operate continuously if the lever is held in this position.

○ : Wiper is not in operation

--- : Wiper operates intermittently at the same wiping intervals. Use this mode in light rain or mist. To vary the speed setting, turn the speed control knob.

1 : Normal wiper speed

2 : Fast wiper speed

## **i** Information

If there is heavy accumulation of snow or ice on the windshield, defrost the windshield for about 10 minutes, or until the snow and/or ice is removed before using the windshield wipers to ensure proper operation.

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

## **AUTO (Automatic) control (if equipped)**



The rain sensor located on the upper end of the windshield glass senses the amount of rainfall and controls the wiping cycle for the proper interval. The more it rains, the faster the wiper operates.

When the rain stops, the wiper stops. To vary the speed setting, turn the speed control knob (1).

If the wiper switch is set in AUTO mode when the ignition switch is in the ON position, the wiper will operate once to perform a self-check of the system. Set the wiper to OFF position when the wiper is not in use.

## **⚠ WARNING**

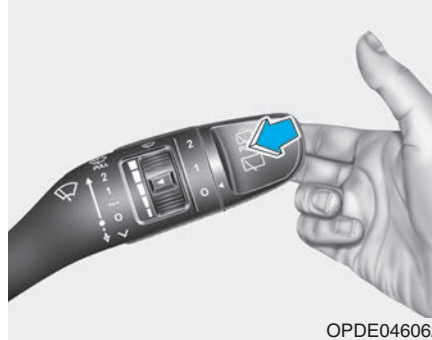
To avoid personal injury from the windshield wipers, when the engine is running and the windshield wiper switch is placed in the AUTO mode:

- Do not touch the upper end of the windshield glass facing the rain sensor.
- Do not wipe the upper end of the windshield glass with a damp or wet cloth.
- Do not put pressure on the windshield glass.

### NOTICE

- When washing the vehicle, set the wiper switch in the **O** position to stop the auto wiper operation. The wiper may operate and be damaged if the switch is set in the **AUTO** mode whilst washing the vehicle.
- Do not remove the sensor cover located on the upper end of the passenger side windscreen glass. Damage to system parts could occur and may not be covered by your vehicle warranty.

### Windscreen washers



OPDE046062

In the **O** position, pull the lever gently toward you to spray washer fluid on the windscreen and to run the wipers 1-3 cycles. The spray and wiper operation will continue until you release the lever.

If the washer does not work, you may need to add washer fluid to the washer fluid reservoir.

### *Recirculating air when washer fluid is used*

When washer fluid is used, in order to reduce any objectionable scent of the washer fluid from entering the cabin, recirculation mode and air conditioning are automatically activated depending on the outside temperature. If you select fresh mode whilst the function is operating, the function will resume after a certain amount of time. It may not work in some conditions such as cold weather or engine OFF.

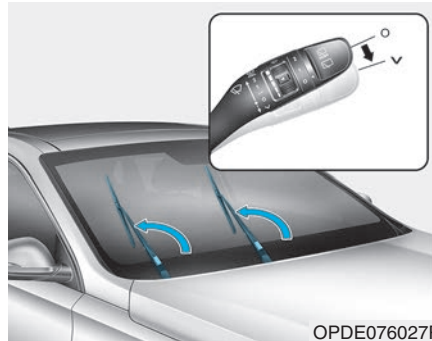
**For more details, refer to “Climate Control Additional Features” section in this chapter.**

### **WARNING**

**When the outside temperature is below freezing, ALWAYS warm the windscreen using the defroster to prevent the washer fluid from freezing on the windscreen 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 windscreen, do not operate the wipers when the windscreen 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.

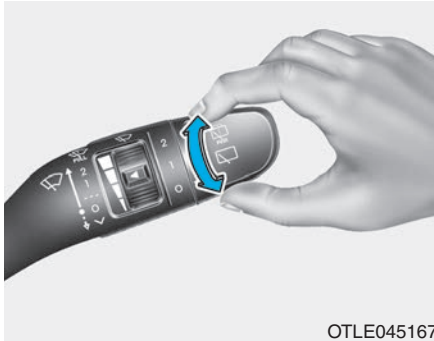
**Front windscreen wiper service position**

This vehicle has a "hidden" wiper design which means that the wipers cannot be lifted when they are in their bottom resting position.

1. Within 20 seconds of turning off the engine, move the wiper lever down and hold it to the ✓ position for about 2 seconds until the wipers move to the top wipe position.
2. At this time you can lift the wipers off the windscreen.

3. Gently put the wipers back down onto the windscreen.
4. Turn the wipers to any ON position to return the wipers to the bottom resting position.

## Rear window wiper and washer switch (if equipped)



OTLE045167

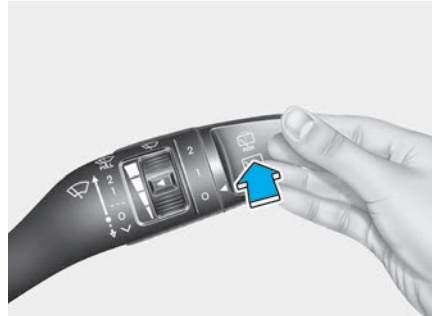
The rear window wiper and washer switch is located at the end of the wiper and washer switch lever.

Turn the switch to the desired position to operate the rear wiper and washer.

2 – High wiper speed

1 – Low wiper speed

0 – Off



OTLE045168

Push the lever away from you to spray rear washer fluid and to run the rear wipers 1~3 cycles. The spray and wiper operation will continue until you release the lever. (if equipped)

## ***Auto rear wiper (if equipped)***

The rear wiper will operate whilst the vehicle is in reverse with the front wiper ON by selecting the function on the LCD display.

Go to 'User Settings → Convenience → Auto Rear Wiper (reverse)'.

## AUTOMATIC CLIMATE CONTROL SYSTEM (IF EQUIPPED)



1. Passenger's temperature control knob
2. Driver's temperature control knob
3. SYNC button
4. OFF button
5. Fan speed control button
6. Mode selection button
7. AUTO (automatic control) button
8. Air conditioning button
9. Air intake control button
10. Front windscreen defroster button
11. Rear window defroster button
12. Climate control information screen

### Automatic heating and air conditioning

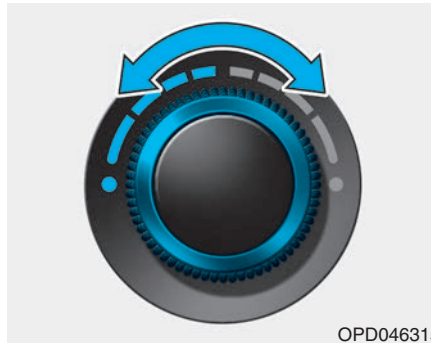
The Automatic Climate Control System is controlled by setting the desired temperature.



OPDE046350R

1. Press the AUTO button.

The modes, fan speeds, air intake and air-conditioning will be controlled automatically by the temperature setting you select.



OPD046315

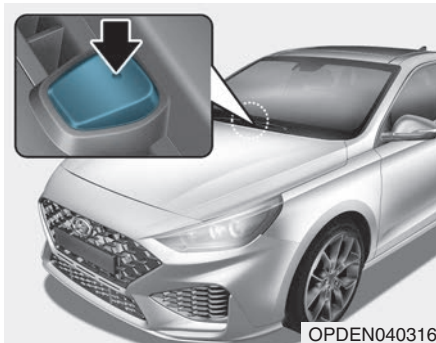
2. Turn the temperature control knob to the desired temperature. If the temperature is set to the lowest setting (Lo), the air conditioning system will operate continuously. After the interior has cooled sufficiently, adjust the knob to a higher temperature set point whenever possible.

To turn the automatic operation off, select any button of the following:

- Mode selection button
- Front windscreen defroster button (Press the button one more time to deselect the front windscreen defroster function. The 'AUTO' sign will illuminate on the information display once again.)
- Fan speed control button

The selected function will be controlled manually whilst other functions operate automatically.

For your convenience and to improve the effectiveness of the climate control, use the AUTO button and set the temperature to 23°C (73°F).



### **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 whilst using automatic operation, the functions not selected will be controlled automatically.

1. Start the engine.
2. Set the mode to the desired position.

For improving the effectiveness of heating and cooling, select:

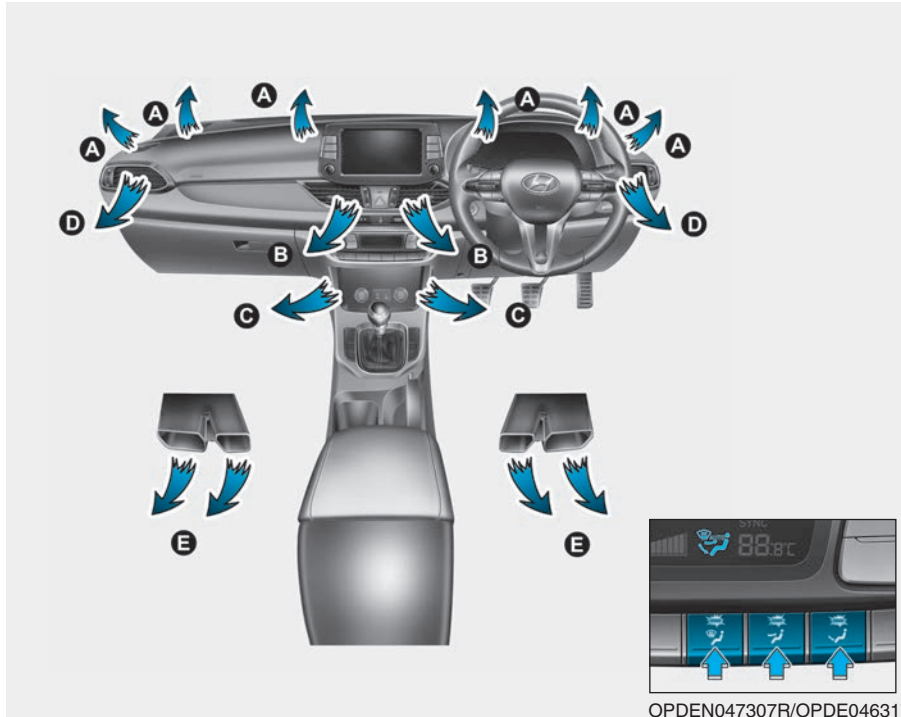
- Heating: 
- Cooling: 

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.
7. Press the AUTO button to convert to full automatic control of the system.



### Mode selection



OPDEN047307R/OPDE046317

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

 Defrost-Level (A, D)

Most of the air flow is directed to the windscreen.

 Face-Level (B, D)

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

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

Most of the air flow is directed to the floor.

Also you may select 2~3 modes at the same time.

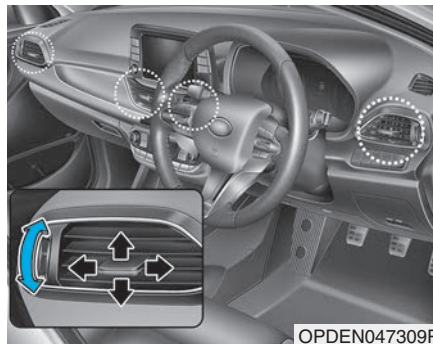
- face ( ) + floor ( ) mode
- face ( ) + defrost ( ) mode
- floor ( ) + defrost ( ) mode
- face ( ) + floor ( ) + defrost ( ) mode



OPDE046352R

### Defrost-Level (A)

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



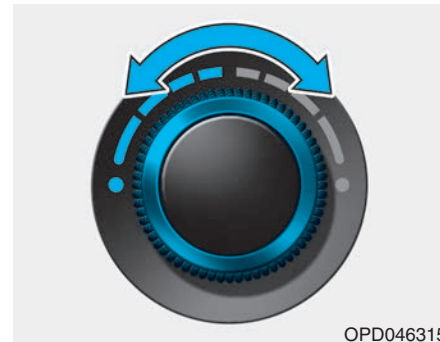
OPDEN047309R

### Instrument panel vents

The outlet vents can be opened (☼) or closed (○) separately using the thumbwheel.

Also, you can adjust the direction of air delivery from these vents using the vent control lever as shown.

### Temperature control



OPD046315

The temperature will increase by turning the knob to the right. The temperature will decrease by turning the knob to the left.



OPDE046320R

### 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 button indicator will turn off.

### Temperature conversion

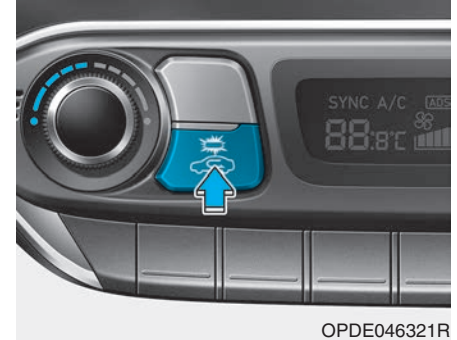
If the battery has been discharged or disconnected, the temperature mode display will reset to Centigrade.

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

- Automatic climate control system  
Press the AUTO button for 3 seconds whilst pressing the OFF button.
- Instrument cluster  
Go to User Settings Mode → Other Features → Temperature Unit.

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

### Air intake control



OPDE046321R

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



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

Using the system in the fresh air position is recommended.

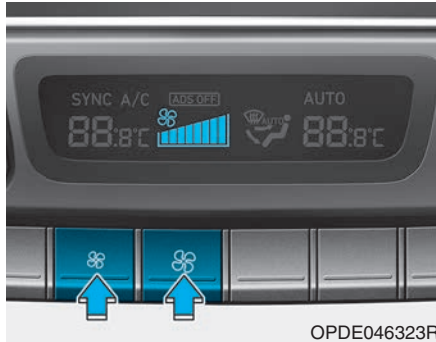
Prolonged operation of the heater in the recirculated air position (without air conditioning selected) can cause fogging of the windscreen and side windows and the air within the passenger compartment will become stale.

In addition, prolonged use of the air conditioning with the recirculated air position selected will result in excessively dry air in the passenger compartment.

### **!** WARNING

- 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 whilst driving.

### Fan speed control



The fan speed can be set as desired by pushing the fan speed control button.

More air is delivered with higher fan speeds.

Pressing the OFF button turns off the fan.

#### **NOTICE**

**Operating the fan when the ignition switch is in the ON position could cause the battery to discharge. Operate the fan when the engine is running.**

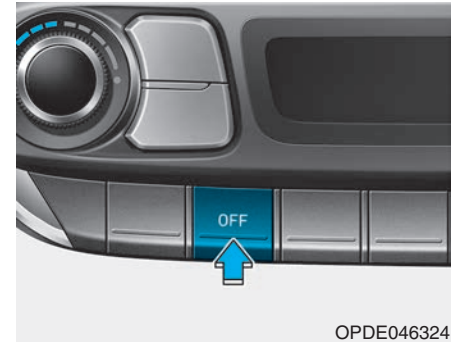
### Air conditioning



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 to turn the climate control system off. However, you can still operate the mode and air intake buttons as long as the ignition switch is in the ON position.

## 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 windscreen fogs up, set the mode to the  or  position.

### Operation Tips

- To keep dust or unpleasant fumes from entering the vehicle through the ventilation system, temporarily set the air intake control to the recirculated air position. Be sure to return the control to the fresh air position when the irritation has passed to keep fresh air in the vehicle. This will help keep the driver alert and comfortable.
- To prevent interior fog on the windscreen, 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 the desired temperature.

### Air conditioning

HYUNDAI Air Conditioning Systems are filled with R-134a or R-1234yf refrigerant.

1. Start the engine. 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.
4. Adjust the fan speed control and temperature control to maintain maximum comfort.

### Information

**Your vehicle is filled with R-134a or R-1234yf according to the regulation in your country at the time of production. You can find out which air conditioning refrigerant is applied to your vehicle on the label located inside of the bonnet. Refer to chapter 8 for the location of the air conditioning refrigerant label.**

### **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 labelled) as meeting SAE Standard J2842.

### **NOTICE**

- When using the air conditioning system, monitor the temperature gauge closely whilst driving up hills or in heavy traffic when outside temperatures are high. Air conditioning system operation may cause engine overheating. Continue to use the 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.

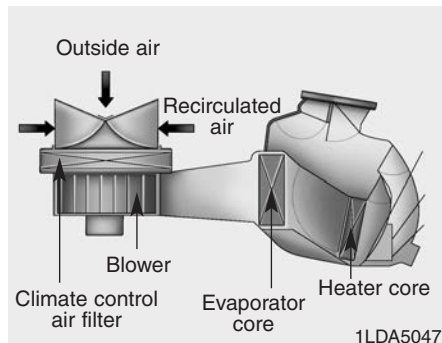
### **Air conditioning system operation tips**

- 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.
- After sufficient cooling has been achieved, switch back from the recirculated air to the fresh outside air position.
- To help reduce moisture inside of the windows on rainy or humid days, decrease the humidity inside the vehicle by operating the air conditioning system with the windows and sunroof closed.
- Use the air conditioning system every month for a few minutes to ensure maximum system performance.

- If you operate the air conditioner excessively, the difference between the temperature of the outside air and that of the windscreen could cause the outer surface of the windscreen to fog up, causing loss of visibility. In this case, set the mode selection button to the  position and set the fan speed control button to the lowest speed setting.

## System maintenance

### Climate control air filter



This filter is installed behind the glove box. It filters the dust or other pollutants that enter the vehicle through the heating and air conditioning system.

We recommend that the climate control air filter be replaced by a HYUNDAI authorised repairer according to the maintenance schedule. If the vehicle is being driven in severe conditions such as dusty or rough roads, more frequent climate control filter inspections and changes are required.

If the air flow rate suddenly decreases, we recommend the system be checked at a HYUNDAI authorised repairer.



**Checking the amount of air conditioner refrigerant and compressor lubricant**

When the amount of refrigerant is low, the performance of the air conditioning is reduced. Overfilling also reduces the performance of the air conditioning system.

Therefore, if abnormal operation is found, we recommend that the system be inspected by an authorised HYUNDAI dealer.

**NOTICE**

It is important that the correct type and amount of oil and refrigerant is used. Otherwise, damage to the compressor and abnormal system operation may occur. To prevent damage, the air conditioning system in your vehicle should only be serviced by trained and certified technicians.

**⚠ WARNING**

Vehicles equipped with R-134a



Since the refrigerant is operated at very high pressure, the air conditioning system should only be serviced by trained and certified technicians.

All refrigerants should be reclaimed with proper equipment.

Venting refrigerants directly to the atmosphere is harmful to individuals and environment. Failure to heed these warnings can lead to serious injuries.

**⚠ WARNING**

Vehicles equipped with R-1234yf

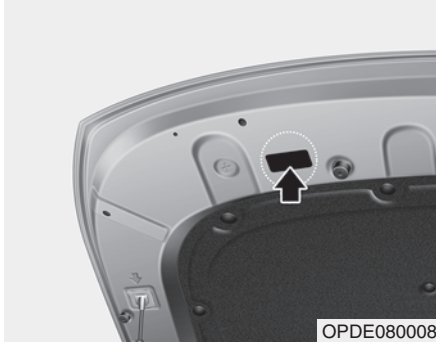


Since the refrigerant is mildly flammable and operated at high pressure, the air conditioning system should only be serviced by trained and certified technicians.

It is important that the correct type and amount of oil and refrigerant are used.

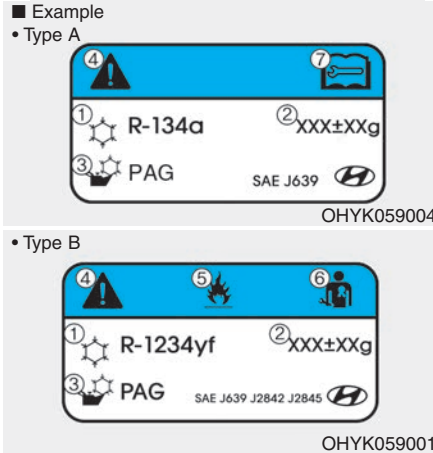
All refrigerants should be reclaimed with proper equipment.

Venting refrigerants directly to the atmosphere is harmful to individuals and environment. Failure to heed these warnings can lead to serious injuries.



### Air Conditioning refrigerant label

You can find out which air conditioning refrigerant is applied to your vehicle on the label located inside of the bonnet.






Each symbols and specification on the air conditioning refrigerant label is represented as below:

1. Classification of refrigerant
2. Amount of refrigerant
3. Classification of compressor lubricant
4. Caution
5. Flammable refrigerant
6. To require registered technician to service air conditioning system
7. Service manual

## WINDSCREEN DEFROSTING AND DEFOGGING

### WARNING

#### Windscreen heating

Do not use the  or  position during cooling operation in extremely humid weather. The difference between the temperature of the outside air and that of the windscreen could cause the outer surface of the windscreen to fog up, causing loss of visibility. In this case, set the mode selection knob or button to the  position and fan speed control button to lower speed.

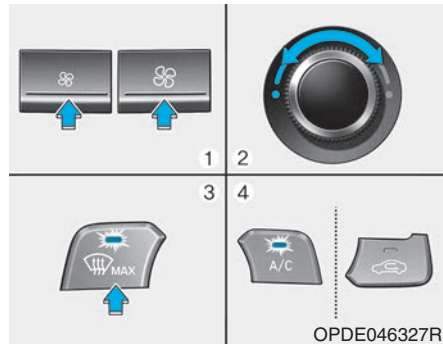
- For maximum windscreen defrosting, set the temperature control knob to the highest temperature setting and the fan control button to the highest fan speed. Select the front defrost button on the climate control display. After the engine warm-up period, warm air will be directed to the front windscreen.
- If warm air to the floor is desired whilst defrosting or defogging, set the mode to the floor-defrost position.
- Before driving, clear all snow and ice from the windscreen, rear window, outside rear view mirrors, and all side windows.
- Clear all snow and ice from the bonnet and air inlet in the cowl grill to improve heater and defroster efficiency and to reduce the probability of fogging up inside of the windscreen.

### Information

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 windscreen

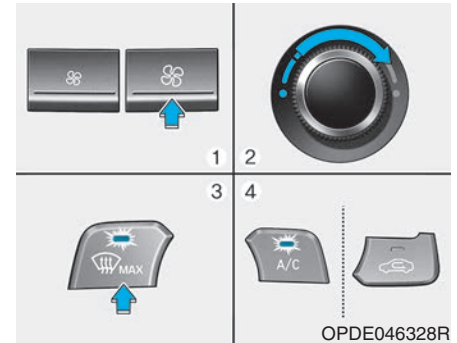


1. Select the desired fan speed.
2. Select the desired temperature.
3. Press the defroster button ( ).
4. The air-conditioning will turn on according to the detected ambient temperature, outside (fresh) air position and higher fan speed will be selected automatically.

If the air-conditioning, outside (fresh) air position and higher fan speed are not selected automatically, adjust the corresponding button or knob manually.

If the position is selected, lower fan speed is controlled to higher fan speed.

### To defrost outside windscreen



1. Set fan speed to the highest position.
2. Set temperature to the extreme hot (HI) position.
3. Press the defroster button ( ).
4. The air-conditioning will turn on according to the detected ambient temperature and outside (fresh) air position will be selected automatically.

If the position is selected, lower fan speed is controlled to higher fan speed.

### Defroster

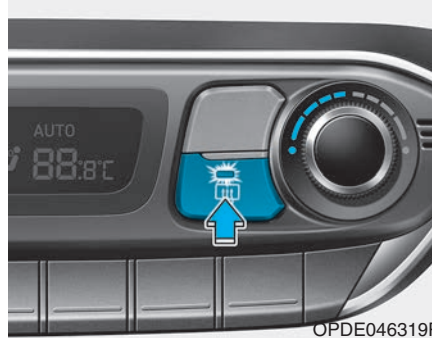
#### NOTICE

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.

#### **i** Information

If you want to defrost and defog the front windscreen, refer to “Windscreen Defrosting and Defogging” 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, whilst the engine is running.

- To activate the rear window defroster, press the rear window defroster button located in the centre fascia 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 the ignition switch is in the OFF position.

### Outside mirror defroster (if equipped)

If your vehicle is equipped with outside mirror defrosters, they will operate at the same time you turn on the rear window defroster.

### Front wiper deicer (if equipped)

If your vehicle is equipped with the wiper deicer, it will operate at the same time you turn on the rear window defroster.

### Auto defogging system (if equipped)

Auto defogging reduces the possibility of fogging up the inside of the windscreen by automatically sensing the moisture on inside the windscreen.

The auto defogging system operates when the heater or air conditioning is on.

#### **i** Information

**The auto defogging system may not operate normally, when the outside temperature is below -10 °C.**

To cancel or set the Auto Defogging System, keep the front defroster button pressed for 3 seconds. The “ADS OFF” symbol will be shown in the climate display to inform you that the system is deactivated. To re-activate the auto defogging system, follow the procedure mentioned above and the “ADS OFF” symbol will disappear.

If the battery has been disconnected or discharged, it resets to the auto defogging status.

#### **i** Information

**For efficiency, do not select recirculated air position whilst the Auto defogging system is operating.**

#### **NOTICE**


**Do not remove the sensor cover located on the upper end of the windscreen glass.**

**Damage to system parts could occur and may not be covered by your vehicle warranty.**

## CLIMATE CONTROL ADDITIONAL FEATURES

### Automatic ventilation (if equipped)

To increase cabin air quality and reduce windscreen misting, air recirculation mode switches off automatically after about 5 to 30 minutes, depending on outside temperature, and the air intake will change to outside (fresh) mode.

To cancel or set the automatic ventilation feature, select Face level mode  and press the air recirculation mode button for 3 seconds.

When the automatic ventilation is set, the air recirculation indicator will blink 6 times. When cancelled, the indicator will blink 3 times.

### Sunroof inside air recirculation (if equipped)

When the heater or air conditioning system is on with the sunroof opened, the 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.

### Recirculating air when washer fluid is used

Recirculation mode automatically activates to reduce any objectionable scent of the washer fluid from entering the cabin when the windscreen washer is used.

### ***Turning Activate upon Washer Fluid Use ON or OFF***

#### Climate control system

To turn the Activate upon Washer Fluid Use feature on or off, select Floor level () mode, and then press the air intake control () button four times within two seconds whilst pressing the A/C icon.

When Activate upon Washer Fluid Use ON is turned on, the air intake control button indicator will blink 6 times. When turned off, the indicator will blink 3 times.

However, in cold weather to prevent the windscreen from fogging up, the recirculation mode may not be selected.

## STORAGE COMPARTMENT

### ⚠ WARNING

Never store cigarette lighters, propane cylinders, or other flammable/explosive materials in the vehicle. These items may catch fire and/or explode if the vehicle is exposed to hot temperatures for extended periods.

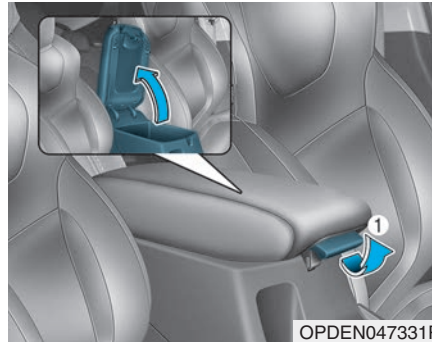
### ⚠ WARNING

**ALWAYS** keep the storage compartment covers closed securely whilst driving. Items inside your vehicle are moving as fast as the vehicle. If you have to stop or turn quickly, or if there is a crash, the items may fly out of the compartment and may cause an injury if they strike the driver or a passenger.

### NOTICE

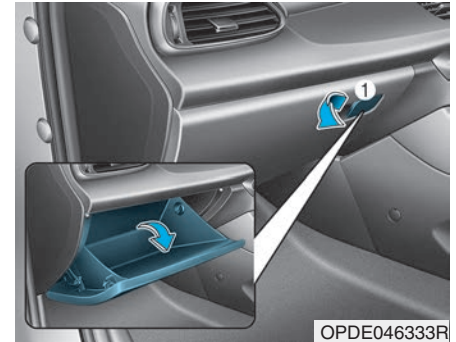
To avoid possible theft, do not leave valuables in the storage compartments.

## Centre console storage



To open :  
Grab and hold the latch (1) on the armrest then lift the lid.

## Glove box



To open the glove box, pull the handle (1) and the glove box will automatically open. Close the glove box after use.

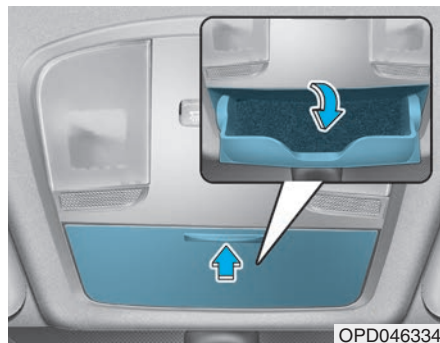
### ⚠ WARNING

**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.

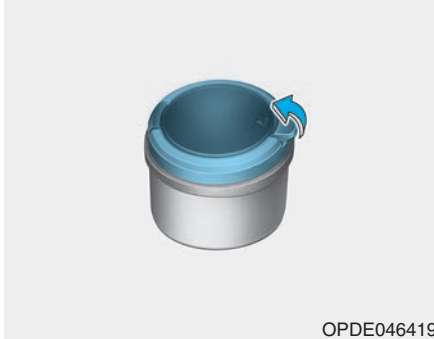
Make sure the sunglass holder is closed whilst driving.

#### **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 whilst 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.**

## INTERIOR FEATURES

### Ashtray (if equipped)



To use the ashtray, open the cover.

To clean the ashtray:

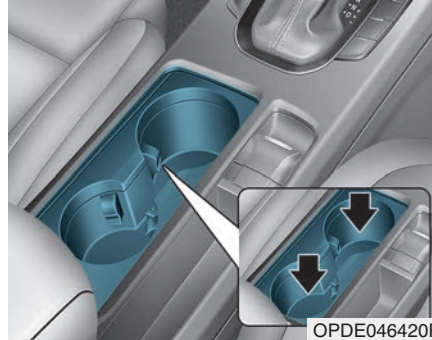
The plastic receptacle should be removed by lifting the plastic ashtray receptacle upward after turning the cover counterclockwise and pulling it out.

#### **WARNING**

**Putting lit cigarettes or matches in an ashtray with other combustible materials may cause a fire.**

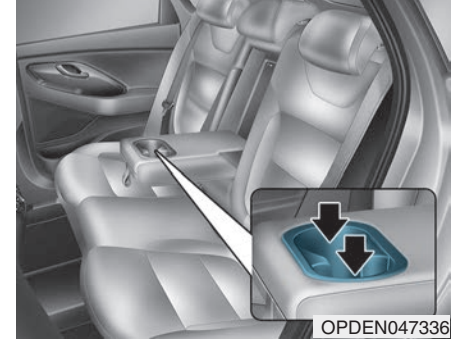
### Cup holder

#### Front



Cups or small beverages cups may be placed in the cup holders.

### Rear (if equipped)



Pull the armrest down to use the cup holders.

### ⚠ WARNING

- Avoid abrupt starting and braking when the cup holder is in use to prevent spilling your drink. If hot liquid spills, you could be burned. Such a burn to the driver could cause loss of vehicle control resulting in an accident.
- Do not place uncovered or unsecured cups, bottles, cans, etc., in the cup holder containing hot liquid whilst the vehicle is in motion. Injuries may result in the event of a sudden stop or collision.
- Only use soft cups in the cup holders. Hard objects can injure you in an accident.

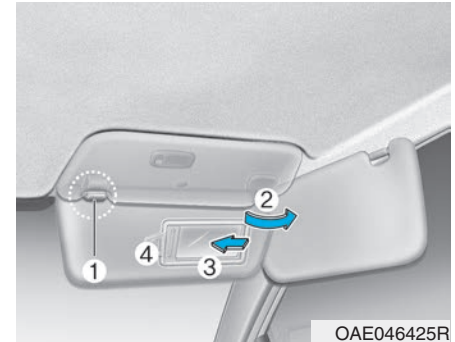
### ⚠ WARNING

Keep cans or bottles out of direct sun light and do not put them in a hot vehicle. It may explode.

### NOTICE

- Keep your drinks sealed whilst driving to prevent spilling your drink. If liquid spills, it may get into the vehicle's electrical/electronic system and damage electrical/electronic parts.
- When cleaning spilled liquids, do not dry the cup holder at high temperature. This may damage the cup holder.

## Sunvisor



To use a sunvisor, pull it downward.  
To use a 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).  
Use the ticket holder (4) to hold tickets.

### **i** Information

Close the vanity mirror cover securely and return the sunvisor to its original position after use.

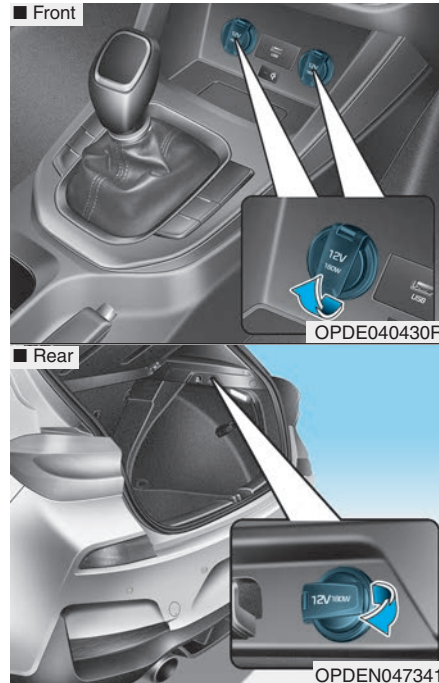
## **⚠ WARNING**

For your safety, do not block your view when using the sunvisor.

## **NOTICE**

Do not put several tickets in the ticket holder at one time. This could cause damage to the ticket holder.

## Power outlet (if equipped)



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(Watt) with the engine running.

## **⚠ WARNING**

Avoid electrical shocks. Do not place your fingers or foreign objects (pin, etc.) into a power outlet or touch the power outlet with a wet hand.

### NOTICE

To prevent damage to the Power Outlets :

- Use the power outlet only when the 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(Watt) 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.
- (Continued)

(Continued)

- Some electronic devices can cause electronic interference when plugged into a vehicle's power outlet. These devices may cause excessive audio static and malfunctions in other electronic systems or devices used in your vehicle.
- Push the plug in as far as it will go. If good contact is not made, the plug may overheat and the fuse may open.
- Plug in battery equipped electrical/electronic devices with reverse current protection. The current from the battery may flow into the vehicle's electrical/electronic system and cause system malfunction.

### Cigarette lighter (if equipped)



To use the cigarette lighter, the ignition switch must be in the ACC or ON position.

Push the cigarette lighter all the way into its socket. When the element is heated, the lighter will pop out to the "ready" position.

We recommend that you use parts for replacement from a HYUNDAI authorised repairer.

## **⚠ WARNING**

- Do not hold the lighter in after it is already heated because it will overheat.
- If the lighter does not pop out within 30 seconds, remove it to prevent overheating.
- Do not insert foreign objects into the socket of the cigarette lighter. It may damage the cigarette lighter.

## **NOTICE**

Only a genuine HYUNDAI lighter should be used in the cigarette lighter socket. The use of plug-in accessories (shavers, hand-held vacuums, and coffee pots, etc.) may damage the socket or cause electrical failure.


## **Wireless mobile phone charging system (if equipped)**



There is a wireless mobile phone charger inside the front console.

The system is available when all doors are closed, and when the ignition switch is in the ACC/ON position.

## **To charge a mobile phone**

The wireless mobile phone charging system charges only the Qi-enabled mobile phones (  ). Read the label on the mobile phone accessory cover or visit your mobile phone manufacturer's website to check whether your mobile phone supports the Qi technology.

The wireless charging process starts when you put a Qi-enabled mobile 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 light is orange when the phone is charging. The indicator light turns green when phone charging is complete.
3. You can turn ON or OFF the wireless charging function in the User Settings mode on the instrument cluster. For further information, refer to the "LCD Display Modes" in this chapter.

If your phone is not charging:

- Slightly change the position of the mobile phone on the charging pad.
- Make sure the indicator light is orange.

Depending on the mobile phone type, the indicator light may not turn green even though the charging is complete.

The indicator light will blink orange for 10 seconds if there is a malfunction in the wireless charging system.

In this case, temporarily stop the charging process, and re-attempt to wirelessly charge your mobile phone again.

The system warns you with a message on the LCD display if the mobile phone is still on the wireless charging unit after the engine is turned OFF and the front door is opened.

### **NOTICE**

- **The wireless mobile phone charging system may not support certain mobile phones, which are not verified for the Qi specification ( Qi ).**
- **Locate your cell phone well in the middle of the wireless mobile 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 (for example, starting the engine, opening the doors, closing the doors).**
- **For certain cell phones, the indicator colour 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 mobile phone charging system. The wireless charging process restarts, when temperature falls to a certain level.**
- **The wireless charging process may temporarily stop when there is any metallic item, such as a coin, between the wireless mobile phone charging system and a mobile phone.**

## Clock

### WARNING

**Do not adjust the clock whilst driving. You may lose your steering control and cause severe personal injury or accidents.**

### *Vehicles with Audio system*

Select the **[SETUP/CLOCK]** button on the audio system → Select [Date/Time].

- Set time: Set the time displayed on the audio screen.
- Time format: Choose between 12-hour and 24-hour time formats.

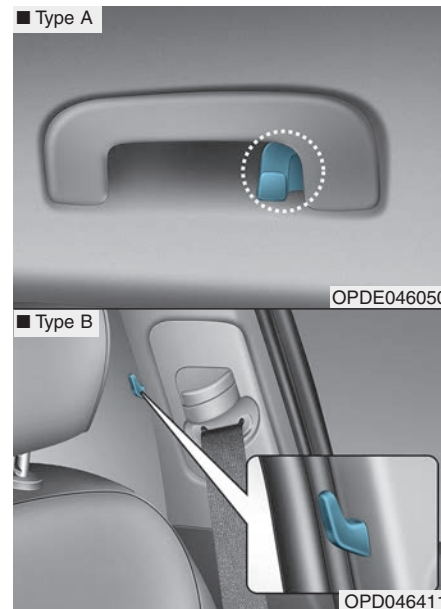
### *Vehicles with Navigation system*

Select the Settings menu on the Navigation system → Select [Date/Time].

- GPS time: Displays time according to the received GNSS time.
- 24-hour: Switches to 12 hour or 24 hour.

**For more details, please refer to the separate manual that was supplied with your vehicle.**

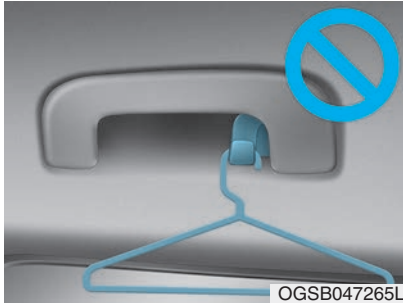
## Clothes hanger (if equipped)



These hangers are not designed to hold large or heavy items.



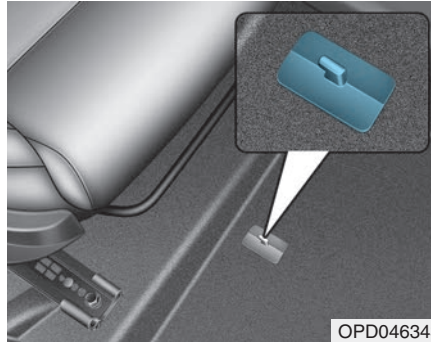
**⚠ WARNING**



**Do not hang other objects such as hangers or hard objects except clothes. Also, do not put heavy, sharp or breakable objects in the clothes pockets.**

**In an accident or when the curtain air bag is inflated, it may cause vehicle damage or personal injury.**

**Floor mat anchor(s)  
(if equipped)**



**ALWAYS** use the Floor Mat Anchors to attach the front floor mats to the vehicle. The anchors on the front floor carpet keep the floor mats from sliding forward.

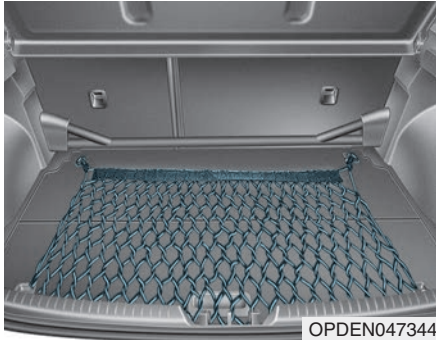
**⚠ WARNING**

**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 (for example, all-weather rubber mat on top of a carpeted floor mat). Only a single floor mat should be installed in each position.**

**IMPORTANT - Your vehicle was manufactured with driver's side floor mat anchors that are designed to securely hold the floor mat in place. To avoid any interference with pedal operation, HYUNDAI recommends that the HYUNDAI floor mat designed for use in your vehicle be installed.**

## Luggage net (holder) (if equipped)



To keep items from shifting in the luggage compartment, you can use the four holders located in the luggage compartment, to attach the luggage net.

If necessary, we recommend that you contact your HYUNDAI authorised repairer to obtain a luggage net.

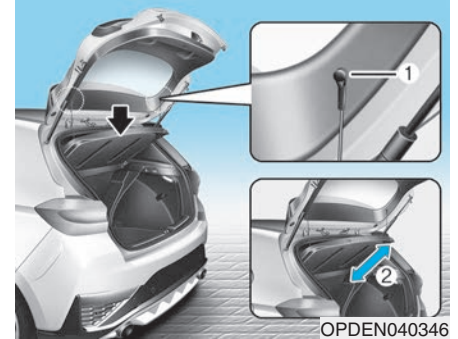
### ⚠ CAUTION

To prevent damage to the goods or the vehicle, care should be taken when carrying fragile or bulky objects in the luggage compartment.

### ⚠ WARNING

To 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.

## Cargo area cover (if equipped)



Use the cover to hide items stored in the cargo area.

The cargo area cover will lift when the tailgate is opened.

Disconnect the strap (1) from the holder if you want to return the cover to the original position. To remove the cargo area cover completely, lift the cover to a 50-degree angle and pull it out (2).

### **NOTICE**

Since the cargo area cover may be damaged or deformed, do not put luggage on it when it is being used.

### **⚠ WARNING**

- Do not place objects on the cargo area cover whilst driving. Such objects may be thrown about inside the vehicle and possibly injure vehicle occupants during an accident or when braking.
- Never allow anyone to ride in the luggage compartment. It is designed for luggage only.
- Maintain balance of the vehicle and locate the weight as far forward as possible.

# Infotainment system

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## MULTIMEDIA SYSTEM

### **i** Information

- If you install an aftermarket HID headlamp, your vehicle's audio and electronic devices may malfunction.
- Prevent chemicals such as perfume, cosmetic oil, sun cream, hand cleaner, and air freshener from contacting the interior parts because they may cause damage or discoloration.

### USB port



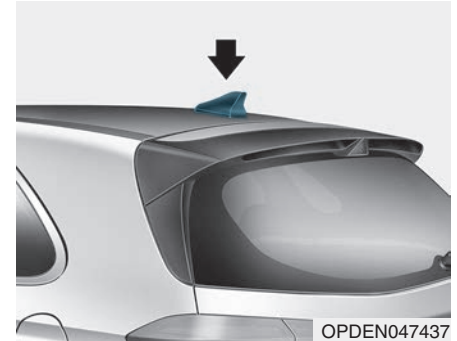
You can use an USB port to plug in an USB port.

### **i** Information

When using a portable audio device connected to the power outlet, noise may occur during playback. If this happens, use the power source of the portable audio device.

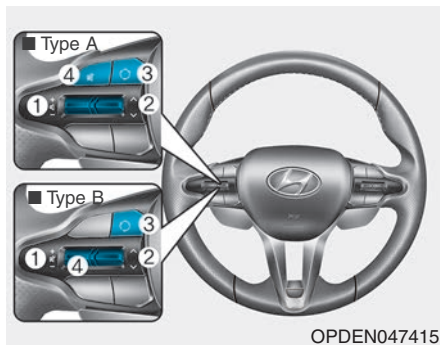
### Antenna

#### *Shark fin antenna*



The shark fin antenna receives transmitted data. (for example: AM/FM, DAB, GPS/ GNSS)

## Steering wheel audio controls (if equipped)



The steering wheel audio control switches are installed for your convenience.

### **NOTICE**

**Do not operate audio remote control buttons simultaneously.**

### **VOLUME (VOL + / - ) (1)**

- Move the VOLUME toggle switch up to increase volume.
- Move the VOLUME toggle switch down to decrease volume.

### **SEEK/PRESET ( ^ / v ) (2)**

If the SEEK/PRESET toggle switch is moved up or down and held for 0.8 seconds or more, it will function in the following modes.

#### **RADIO mode**

It will function as the AUTO SEEK select switch. It will SEEK until you release the switch.

#### **MEDIA mode**

It will function as the FF/REW switch.

If the SEEK/PRESET toggle switch is moved up or down, it will function in the following modes.

#### **RADIO mode**

It will function as the PRESET STATION UP/DOWN switch.

#### **MEDIA mode**

It will function as the TRACK UP/DOWN switch.

### **MODE ( ) (3)**

Press the MODE button to select Radio, Disc, or AUX.

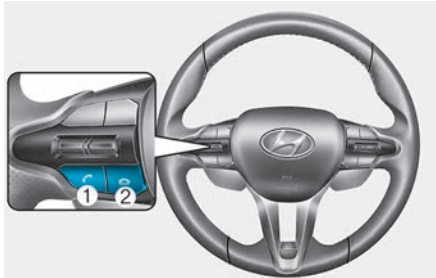
### **MUTE ( ) (4)**

- 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.**

### Bluetooth® Wireless Technology hands-free



OPDEN047422



OPD046348

You can use the phone wirelessly by using the *Bluetooth®* Wireless Technology.

- (1) Call / Answer button
- (2) Call end button
- (3) Microphone

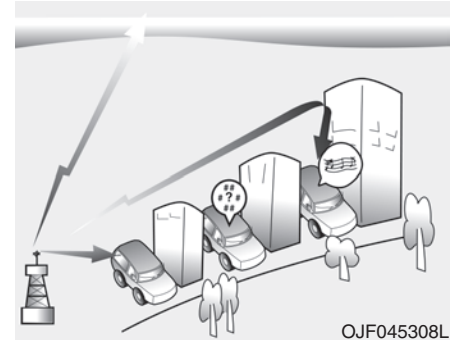
- Audio : For detailed information, refer to “AUDIO” in this chapter.
- Infotainment system : Detailed information for the *Bluetooth®* Wireless Technology hands-free is described in the manual supplied separately.

### Infotainment system (if equipped)

Detailed information for the Infotainment system is described in a separately supplied manual.

### How vehicle radio works

#### FM reception

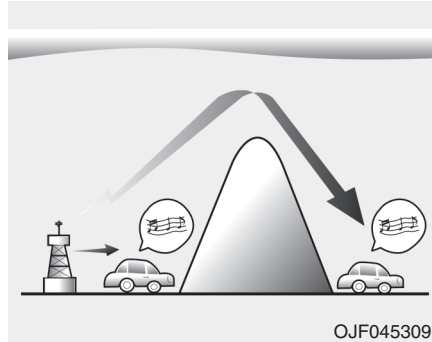


AM and FM radio signals are broadcast from transmitter towers located around your city. They are intercepted by the radio antenna on your vehicle. This signal is then received by the radio and sent to your vehicle speakers.

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.

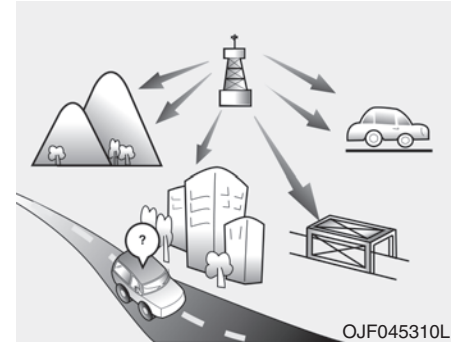
This can be due to factors, such as the distance from the radio station, closeness of other strong radio stations or the presence of buildings, bridges or other large obstructions in the area.

### **AM (MW, LW) reception**



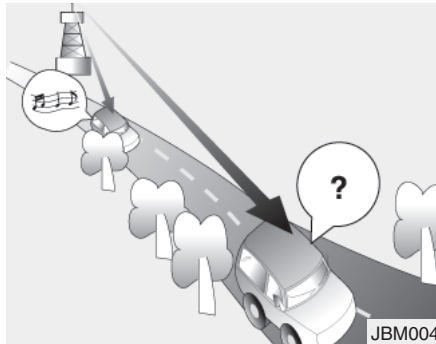
AM broadcasts can be received at greater distances than FM broadcasts. This is because AM radio waves are transmitted at low frequencies. These long, low frequency radio waves can follow the curvature of the earth rather than travelling straight out into the atmosphere. In addition, they curve around obstructions so that they can provide better signal coverage.

### **FM radio station**

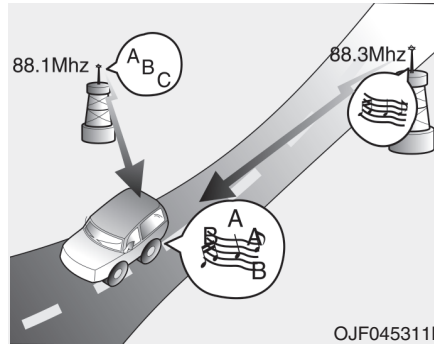


FM broadcasts are transmitted at high frequencies and do not bend to follow the earth's surface. Because of this, FM broadcasts generally begin to fade at short distances from the station. Also, FM signals are easily affected by buildings, mountains, or other obstructions. These can result in certain 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 a 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.

### **Using a mobile phone or a two-way radio**

When a mobile phone is used inside the vehicle, noise may be produced from the audio system. This does not mean that something is wrong with the audio equipment. In such a case, use the mobile phone at a place as far as possible from the audio equipment.

#### **NOTICE**

**When using a communication system such as a mobile phone or a radio set inside the vehicle, a separate external antenna must be fitted. When a mobile phone or a radio set is used with an internal antenna alone, it may interfere with the vehicle's electrical system and adversely affect safe operation of the vehicle.**

#### **⚠ WARNING**

**Do not use a mobile phone whilst driving. Stop at a safe location to use a mobile phone.**

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## iPod®

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iPod® is a registered trademark of Apple Inc.

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## Bluetooth® Wireless Technology

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The Bluetooth® word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by HYUNDAI is under license.

Other trademarks and trade names are those of their respective owners.

A *Bluetooth®* Wireless Technology enabled mobile phone is required to use *Bluetooth®* Wireless Technology.



## AUDIO (With Touch Screen)

■ Type A



■ Type B



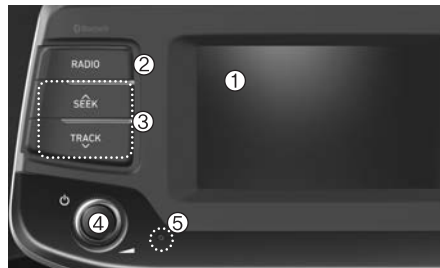
(With *Bluetooth*® Wireless Technology)

S0H4H0000EE/S0H4H0001EE

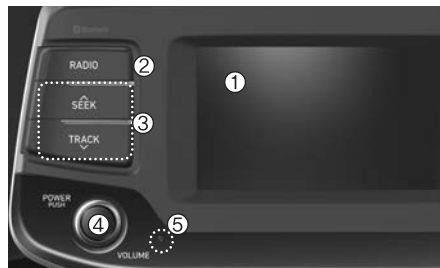
## Feature of Your Audio

### Head unit

#### ■ Type A



#### ■ Type B



#### (1) LCD screen

- Tap the screen to select a button.

#### (2) RADIO

- Start DAB/FM\* and AM radio.

\* with DAB

#### (3) SEEK/TRACK

- Search for next station in DAB/FM\* and AM radio mode.
- Change the current song in media mode.

\* with DAB

#### (4) POWER/VOLUME knob

- Turn to adjust the volume.
- Press to turn the device on or off.

#### (5) RESET

- Shutdown and restart the system.

\* The actual features in the vehicle may differ from the illustration.

### ■ Type A



### ■ Type B



### (6) MEDIA

- Select USB(iPod®), Bluetooth®(BT) Audio, AUX or My Music.
- Display the media menu when two or more media are connected or when the **[MEDIA]** button is pressed in media mode.

### (7) PHONE

- Start Bluetooth® Phone mode.

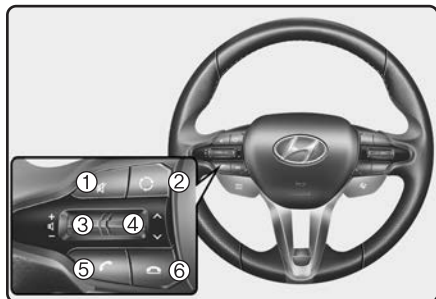
### (8) SETUP

- Access Display, Sound, Date/Time, Bluetooth, System, Screensaver and Display Off settings.

### (9) TUNE knob

- Turn to navigate through the stations/songs list.
- Press to select an item.

## Steering wheel remote control



※ The actual features in the vehicle may differ from the illustration.

### (1) MUTE

- Mutes the audio.
- Mutes the microphone during a call.

### (2) MODE

- Press the button to change the mode in the following order: Radio → Media.

### (3) VOLUME

- Press to adjust the volume.

### (4) UP/DOWN

- Press the button in radio mode to search Presets.
- Press and hold the button in radio mode to search frequencies.
- Press the button in media mode to change the current song.(except AUX)
- Press and hold the button in media mode to quick search through songs. (except Bluetooth®(BT) Audio and AUX)

### (5) CALL

- Pressing the button
  - If not in Bluetooth® Handsfree mode or receiving a phone call.
    - First press: Display Dial Number screen.
    - Second press: Automatically display the most recently Dialed Call number.
    - Third press: Dial the phone number entered.
  - Press in the Incoming Call notification screen to accept the phone call.
  - Press in Bluetooth® Handsfree mode to switch to the waiting call.

- Pressing and holding the button (more than 1.0 seconds)
  - If not in Bluetooth® Handsfree mode or receiving a phone call, the most recently Dialed Call number is dialed.
  - Press in Bluetooth® Handsfree mode to transfer the call to your cell phone.
  - Press in cell phone mode to switch to Bluetooth® Handsfree mode.

### (6) END

- Press in Bluetooth® Handsfree mode to end the phone call.
- Press in the incoming call screen to reject the call.

**⚠ WARNING**

- Do not stare at the screen whilst driving. Staring at the screen for prolonged periods of time could lead to traffic accidents.
- Do not disassemble, assemble, or modify the audio system. Such acts could result in accidents, fire, or electric shock.
- Using the phone whilst driving may lead to a lack of attention of traffic conditions and increase the likelihood of accidents. Use the phone feature after parking the vehicle.
- Exercise caution not to spill water or introduce foreign objects into the device. Such acts could lead to smoke, fire, or product malfunction.

(Continued)

(Continued)

- Please refrain from use if the screen is blank or no sound can be heard as these signs may indicate product malfunction. Continued use in such conditions could lead to accidents (fires, electric shock) or product malfunctions.
- Do not touch the antenna during thunder or lightening as such acts may lead to lightning induced electric shock.
- Do not stop or park in parking-restricted areas to operate the product. Such acts could lead to traffic accidents.
- Use the system with the vehicle engine turned on. Prolonged use with the ignition turned on only could result in battery discharge.

**⚠ WARNING**

Driving whilst distracted can result in a loss of vehicle control that may lead to an accident, severe personal injury, and death. The driver's primary responsibility is in the safe and legal operation of a vehicle, and use of any handheld devices, other equipment, or vehicle systems which take the driver's eyes, attention and focus away from the safe operation of a vehicle or which are not permissible by law should never be used during operation of the vehicle.

## **NOTICE**

- Operating the device whilst driving could lead to accidents due to a lack of attention to external surroundings. First park the vehicle before operating the device.
- Adjust the volume to levels that allow the driver to hear sounds from outside of the vehicle. Driving in a state where external sounds cannot be heard may lead to accidents.
- Pay attention to the volume setting when turning the device on. A sudden output of extreme volume upon turning the device on could lead to hearing impairment. (Adjust the volume to a suitable levels before turning off the device.)

(Continued)

(Continued)

- Turn on the car engine before using this device. Do not operate the audio system for long periods of time only with the ignition turned on as such operations may lead to battery discharge.
- Do not subject the device to severe shock or impact. Direct pressure onto the front side of the monitor may cause damage to the LCD.
- When cleaning the device, make sure to turn off the device and use a dry and smooth cloth. Never use tough materials, chemical cloths, or solvents (alcohol, benzene, thinners, etc.). As such materials may damage the device panel or cause colour/quality deterioration.

(Continued)


(Continued)

- Do not place beverages close to the audio system. Spilling beverages may lead to system malfunction.
- In case of product malfunction, please contact your place of purchase or After Service centre.
- Placing the audio system within an electromagnetic environment may result in noise interference.
- Prevent caustic solutions such as perfume and cosmetic oil from contacting the dashboard because they may cause damage or discolouration.



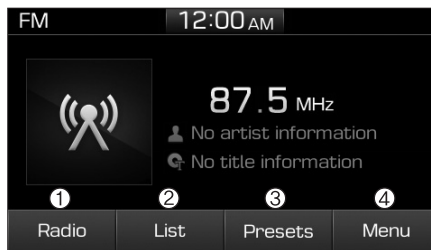
### Information on status icons

Icons showing audio status are shown in the upper-right corner of the screen.

Icon	Description	
	Mute	Mute engaged
	Battery	Remaining battery life of a connected Bluetooth® device
	Handsfree + Audio streaming connection	Bluetooth® Handsfree call and audio streaming available
	Handsfree connection	Bluetooth® Handsfree call available
	Bluetooth® audio streaming	Bluetooth® audio streaming available
	Downloading contacts	Downloading contacts through Bluetooth® wireless communications
	Downloading call history	Downloading call history through Bluetooth® wireless communications
	Line busy	Phone call in progress
	Mute mic	Mic muted during a call (caller cannot hear your voice)
	Phone signal strength	Display the phone signal strength for a cell phone connected by Bluetooth®

### Radio

#### FM/AM (with RDS)



#### (1) Radio

Switch between FM and AM.

#### (2) List

View all available stations.

#### (3) Presets

View all presets.

#### (4) Menu

Navigate to the menu screen.

#### Switching between FM and AM

- Press the **[RADIO]** button on the audio system to switch between FM and AM.
- Select **[Radio]** on the screen to switch between FM and AM.

#### Searching stations

Press the **[SEEK/TRACK]** button to search stations.

#### List

A list of all available stations in the vehicle's current location is displayed. Select the desired station.

Favourite stations can be saved to **[Presets]** by selecting **[+]**.

## Presets

Save up to 40 frequently used stations. To listen to a preset, select the desired station list.

Press and hold the desired slot from 1 through 40. This saves the current station in the selected slot.

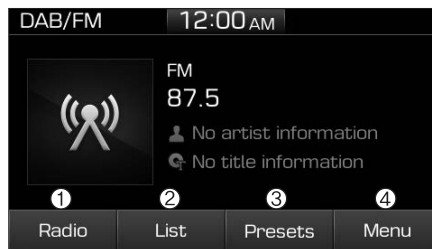
If the slot is empty, simply selecting saves the station to the slot.

## Menu

Select [Menu], and select the desired function.

- Traffic Announcement (TA): Enable or disable Traffic Announcements.
- Scan: All available stations are played for five seconds each.
- Sound Settings: Audio sound settings can be changed.

## DAB/FM (with DAB)



### (1) Radio

Switch between DAB/FM and AM.

### (2) List

View all available stations.

### (3) Presets

View all presets.

### (4) Menu

Navigate to the menu screen.

## Switching between DAB/FM and AM

- Press the **[RADIO]** button on the audio system to switch between DAB/FM and AM.
- Select [Radio] on the screen to switch between DAB/FM and AM.

## Searching stations

Press the **[SEEK/TRACK]** button to search stations.

## List

A list of all available stations in the vehicle's current location is displayed. Select the desired station.

Favourite stations can be saved to [Presets] by selecting [+].

### Presets

Save up to 40 frequently used stations. To listen to a preset, select the desired station list.

Press and hold the desired slot from 1 through 40. This saves the current station in the selected slot.

If the slot is empty, simply selecting saves the station to the slot.

### Menu

Select [Menu], and select the desired function.

- Traffic Announcement (TA): Enable or disable Traffic Announcements.
- Region : Enable or disable automatic switching between regional stations.
- Scan: All available stations are played for five seconds each.
- Sound Settings: Audio sound settings can be changed.
- Manual tune FM : Search for frequencies manually.

### FM/AM (without RDS)



#### (1) Band

Switch between FM and AM.

#### (2) Presets

View all presets.

#### (3) List

View all available stations.

#### (4) Menu

Navigate to the menu screen.

### Switching between FM and AM

- Press the **[RADIO]** button on the audio system to switch between FM and AM.
- Select [Band] on the screen to switch between FM and AM.

### Searching stations

Press the **[SEEK/TRACK]** button to search stations.

### List

A list of all available stations in the vehicle's current location is displayed. Press the desired station.

Favourite stations can be saved to [Presets] by selecting [save].

## Presets

Save up to 40 frequently used stations.

To listen to a preset, select the desired station list.

Press and hold the desired slot from 1 through 40. This saves the current station in the selected slot.

If the slot is empty, simply selecting saves the station to the slot.

## Menu

Select [Menu], and select the desired function.

- Scan: All available stations are played for five seconds each.
- Sound Settings: Audio sound settings can be changed.

## Media

### **i** Information - Using MP3

#### Supported audio formats

Audio formats	WAVEform audio format
Compressed audio formats	MPEG1 Audio Layer3
	MPEG2 Audio Layer3
	MPEG2.5 Audio Layer3
	Windows Media Audio Ver 7.X & 8.X

#### **NOTICE**

**File formats other than the formats above may not be recognised or playable. Information such as filename may not be displayed.**

## Range of supported compressed file types

### 1. Bitrate range (Kbps)

BIT RATE(kbps)	MPEG1	MPEG2	MPEG2.5	WMA
	Layer3			High Range
32	8	8	48	
40	16	16	64	
48	24	24	80	
56	32	32	96	
64	40	40	128	
80	48	48	160	
96	56	56	192	
112	64	64		
128	80	80		
160	96	96		
192	112	112		
224	128	128		
256	144	144		
320	160	160		
WAV				
	PCM(Stereo)	IMA ADPCM	MS ADPCM	
	24	4	4	

## 2. Sampling frequency (Hz)

MPEG1	MPEG2	MPEG2.5	WMA	WAV
44100	22050	11025	32000	44100
48000	24000	12000	44100	48000
32000	16000	8000	48000	

- The sound quality of MP3/WMA compressed and WAV files may vary depending on the bitrate. (A higher bitrate can have better sound quality.)
- The product only recognises files with the MP3, WMA or WAV extension. Files without one of these extensions are not recognised.

## 3. Number of recognisable folders and files

- Folders: 2,000 for USB
- Files: 6,000 for USB
- No recognition limit for folder hierarchies.

## 4. Character display range (Unicode)

- Filenames: Up to 64 English characters (64 Korean characters)
- Folder names: Up to 32 English characters (32 Korean characters)

### Languages supported (Unicode support)

- Korean: 2,604 characters
- English: 94 characters
- Common Chinese characters: 4,888 characters
- Special symbols: 986 characters

### **NOTICE**

**Japanese/Simplified Chinese characters are not supported.**

## **i** Information

### - Using the USB Devices

- Starting the vehicle whilst a USB device is connected can damage the device. Please disconnect USB devices before starting the vehicle.
- Starting the vehicle or stopping the engine whilst an external USB device is connected can result in failure of the external USB device to operate.
- Be cautious of static electricity when connecting/disconnecting external USB devices.
- An encrypted MP3 player is not recognised when connected as an external device.
- External USB devices may not be recognised, depending on the state of the external USB device.
- Only products with byte/sectors formatted at 4 KB or lower are recognised.
- Only USB devices in FAT12/16/32 format are recognised; NTFS and ExFAT file systems are not recognised.

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- Some USB devices are not recognised due to compatibility issues.
- Do not touch the USB connections.
- Connecting and disconnecting USB devices rapidly over a short period of time can cause equipment failure.
- Abnormal sounds may be audible when the USB device is disconnected.
- Turn the audio off before connecting or disconnecting external USB devices.
- Recognition may take longer depending on the type, capacity or file format of the external USB device. This is not a product malfunction.
- Use of USB devices for purposes other than playing music files is prohibited.
- Image display and video playback are not supported.

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- Use of USB accessories, including charge and heat though the USB I/F, can lead to reduced product performance or malfunctions. Do not use USB devices or accessories for these purposes.
- Use of aftermarket USB hubs and extension cables can result in the vehicle's audio system failing to recognise your USB device. Connect the USB device directly to the multimedia port of your vehicle.
- When using high-capacity USB devices with logical drive divisions, only files saved on the highest level logical drive can be played.

If applications are loaded on a USB drive, file playback may fail.

- Some MP3 players, cell phones, digital cameras, etc., (USB devices that are not recognised as mobile storage) may not operate normally when connected.
- USB charging may not be supported by some mobile devices.

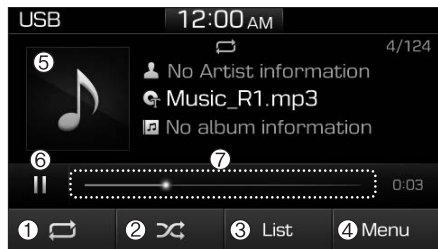
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- Operation is guaranteed only for standard (Metal Cover Type) USB Memory drives.
- Operation of HDD, CF, SD and memory stick devices is not guaranteed.
- DRM (Digital Rights Management) files cannot be played.
- SD-type USB memory, CF-type USB memory, and other USB memory devices that require adapters for connection are not supported.
- Proper operation of USB HDDs or USB drives with connectors that loosen due to vehicle vibrations is not guaranteed. (iStick, etc.)
- USB products that are used as key chains or cell phone accessories may damage the USB jack and affect proper file playback. Please refrain from use. Use only products with plug connectors, as shown in the following illustration.
- When MP3 devices or cell phones are connected simultaneously through AUX, BT Audio and USB modes, a popping noise or malfunction may occur.



## USB



### (1) Repeat

Enable/disable repeat.

### (2) Shuffle

Enable/disable shuffle play.

### (3) List

View a list of all songs.

### (4) Menu

Navigate to the menu screen.

### (5) Album Image

View song info.

### (6) Pause

Pause or play music.

### (7) Playback progress

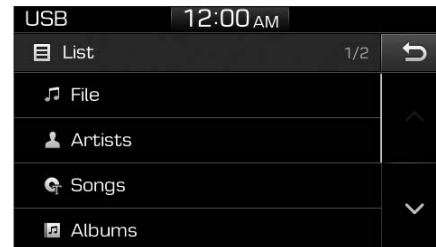
Select to skip to the desired location.

## Playback

- Press the **[MEDIA]** button, and select **[USB]**.
- Connect a USB drive to the USB port to automatically play files on the USB drive.

## Changing songs

- Press the **[SEEK/TRACK]** button to play the previous or next song.
- Press and hold the **[SEEK/TRACK]** button to rewind or fast forward the currently playing song.
- Search songs by turning **TUNE** knob, and press the knob to play.



## Selecting songs from a list

Select **[List]** to see a list of songs available for play.

Select and play the desired song.

## Repeat play

Select **[Repeat]** to enable or disable 'Repeat all', 'Repeat current song', 'Repeat folder' or 'Repeat category' play.




- Repeat all: All songs in the playlist are repeated.
- Repeat current song: The currently playing song is repeated.
- Repeat folder: All songs in the current folder are repeated.
- Repeat category: Repeat all songs in the current category.

## **i** Information

The repeat folder function is available only when songs are playing from the [File] category under [List].

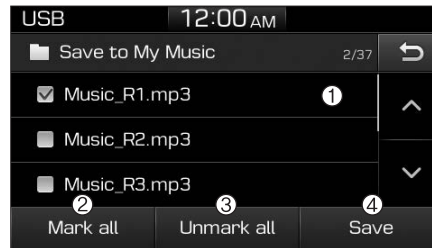
### Shuffle play

Select [Shuffle] to enable or disable 'Shuffle', 'Shuffle folder' or 'Shuffle category' play.

-  Shuffle: Songs are played in random order.
-  Shuffle folder: Songs within the current folder are played in random order
-  Shuffle category: Songs within the current category are played in random order.

### Menu

Select [Menu], and select the desired function.



- Save to My Music: Songs on your USB device can be saved to My Music.

- (1) File: Select a file to save.
- (2) Mark all: Select all files.
- (3) Unmark all: Deselect all files.

(4) Save: Save the selected file(s).

- Select the files you want to save, and select [Save]. This saves the selected files to My Music.
- Saving is cancelled if phone calls are received or made whilst saving.
- Up to 6,000 files can be saved.
- The currently playing file on the USB device cannot be changed whilst saving.
- My Music cannot be used whilst saving.
- Up to 700 MB can be saved.
- Information: Detailed information on the currently playing song is displayed.
- Sound Settings: Audio sound settings can be changed.



**i** Information

**- Using the iPod® Devices**

- To use the audio system's iPod® control function, use the dedicated cable provided with your iPod®.
- Connecting the iPod® to the vehicle during play may result in a loud noise that lasts about one to two seconds. Connect the iPod® to the vehicle after stopping or pausing play.
- Connect the iPod® with the vehicle in the ACC ON state to begin charging.
- When connecting the iPod® cable, be sure to fully push the cable into the port.
- When EQ effects are enabled simultaneously on external devices, such as iPod®s and the audio system, the EQ effects may overlap, causing sound quality deterioration or distortion. Deactivate the EQ function for all external devices, if possible.
- Noise may occur when your iPod® or the AUX port is connected. Disconnect and store separately when not in use.

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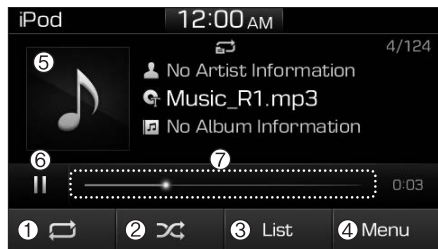
- There may be noise if the audio system is used with an iPod® or AUX external device connected to the power jack. In these cases, disconnect the iPod® or external device from the power jack.
- Play may be interrupted, or device malfunctions may occur depending on the characteristics of your iPod®/iPhone®.
- Play may fail if your iPhone® is connected through both Bluetooth® and USB. In this case, select Dock connector or Bluetooth® on your iPhone® to change the sound output settings.
- If your software version does not support the communication protocol or your iPod® is not recognised due to device failure, anomalies or defects, iPod® mode cannot be used.
- iPod® nano (5th generation) devices may not be recognised if the battery is low. Charge sufficiently before use.

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- The search and song play order in the iPod® device may be different from the search order in the audio system.
- If the iPod® has failed due to an internal defect, please reset the iPod® (consult your iPod® manual).
- Depending on the software version, the iPod® may fail to sync with the system. If the media is removed or disconnected before recognition, the previous mode may not be restored (iPad® cannot be charged).
- Cables other than the 1-meter cable provided with iPod®/iPhone® products may not be recognised.
- When other music apps are used on your iPod®, the system sync function may fail due to malfunction of the iPod® application.

## iPod®



### (1) Repeat

Enable/disable repeat play.

### (2) Shuffle

Enable/disable shuffle play.

### (3) List

View a list of all songs.

### (4) Menu

Navigate to the menu screen.

### (5) Album Image

View song info.

### (6) Pause

Pause or play music.

### (7) Playback progress

Select to skip to the desired location.

### Playback

- Connect your iPod® to the audio USB port, press the **[MEDIA]** button, and select [iPod].

### Changing songs

- Press the **[SEEK/TRACK]** button to play the previous or next song.
- Press and hold the **[SEEK/TRACK]** button to rewind or fast forward the currently playing song.
- Search songs by turning the **TUNE** knob, and press the knob to play.



### Selecting songs from a list

Select [List] to see a list of songs available for play.

Select and play the desired song.


### Repeat play

Select [Repeat] to enable or disable 'Repeat category', 'Repeat current song' play.

-  Repeat category: Repeat all songs in the current category.
-  Repeat current song: The currently playing song is repeated.

### Shuffle play

Select [Shuffle] to enable or disable 'Shuffle category' play.

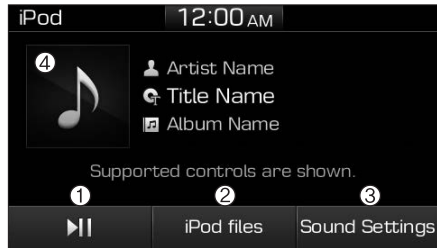
-  Shuffle category: Songs within the current category are played in random order.

### Menu

Select [Menu], and select the desired function.

- Information: Detailed info on the currently playing song is displayed.
- Sound Settings: Audio sound settings can be changed.

When other music programs are running



When songs saved on your iPod® are playing through a separate music app, the above screen is displayed.

- (1) Play/Pause: Pause or play music.
- (2) iPod files: Play music saved on your iPod®.
- (3) Sound Settings: Audio sound settings can be changed.
- (4) Album Image: View playback info.

### Playing iPod files

- Select [iPod files] to play songs saved on your iPod®.  
If there are no songs saved on your iPod®, the [iPod files] is disabled.

### **i** Information

Operation cannot be carried out correctly due to iPod® application malfunction.

### **i** Information

#### - Using Bluetooth® (BT) Audio

- Bluetooth® Audio mode can only be used if a Bluetooth®-enabled phone is connected. Only devices that support Bluetooth® audio can be used.
- If the Bluetooth®-enabled phone is disconnected during play, the music stops.
- When the TRACK UP/DOWN buttons are used during Bluetooth® audio streaming, a popping noise or sound interruptions may occur, depending on the cell phone device.
- Depending on the cell phone model, the audio streaming function may not be supported.
- If a phone call is made or received when music is playing in Bluetooth® Audio mode, the call may mix with the music.

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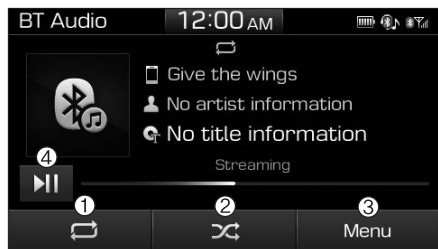
(Continued)

- When returning to Bluetooth® Audio mode after ending a call, play might not resume automatically for some cell phone models.

### **NOTICE**

- Bluetooth® Handsfree is a feature that enables drivers to practice safe driving. Connecting the car audio system with a Bluetooth® phone allows the user to conveniently make calls, receive calls, and manage the phone book. Before using the *Bluetooth®* Wireless Technology, carefully read the contents of this user's manual.
- Excessive use or operations whilst driving may lead to negligent driving practices and be the cause of accidents.
- Do not operate the device excessively whilst driving.
- Viewing the screen for prolonged periods of time is dangerous and may lead to accidents.
- When driving, view the screen only for short periods of time.

## Bluetooth® (BT) Audio



### (1) Repeat

Enable/disable repeat play.

### (2) Shuffle

Enable/disable shuffle play.

### (3) Menu

Navigate to the menu screen.

### (4) Play/Pause

Pause or play music.

### **i** Information

- Some cell phone models may not support particular functions.
- Bluetooth® audio volume is synced with cell phone media volume.

### Playback

- Press the [MEDIA] button, and select [BT Audio].

### Changing songs




- Press the [SEEK/TRACK] button to play the previous or next song.

### **i** Information

Some cell phones may not support this function.

### Repeat play

Select [Repeat] to enable or disable 'Repeat all', 'Repeat current song' or 'Repeat category' play.



-  Repeat all: All songs in the playlist are repeated.
-  Repeat current song: The currently playing song is repeated.
-  Repeat category: Repeat all songs in the current category.

### **i** Information

The repeat play function is engaged, depending on the operation of the connected Bluetooth® device.

### Shuffle play

Select [Shuffle] to enable or disable 'Shuffle', 'Shuffle category' play.

-  Shuffle: Songs are played in random order.
-  Shuffle category: Songs within the current category are played in random order.

### Information

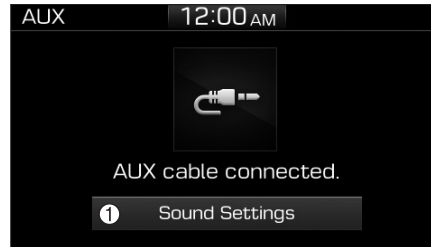
The shuffle function is engaged, depending on the operation of the connected Bluetooth® device.

### Menu

Select [Menu], and select the desired function.

- Connections: The currently connected Bluetooth® device can be changed.
- Information: Detailed information on the currently playing song is displayed.
- Sound Settings: Audio sound settings can be changed.

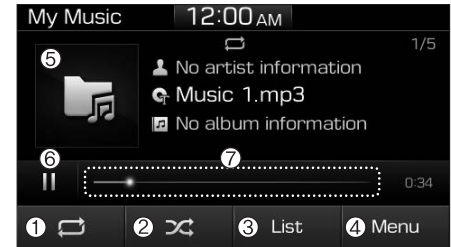
### AUX



### Running AUX

- Press the [MEDIA] button, and select [AUX].
  - Connect the external device connection jack to the AUX terminal to run AUX.
- (1) Sound Settings: Audio sound settings can be changed.

### My Music



### (1) Repeat

Enable/disable repeat play.

### (2) Shuffle

Enable/disable shuffle play.

### (3) List

View a list of all songs.

### (4) Menu

Navigate to the menu screen.

### (5) Album Image

View song info.

## (6) Pause

Pause or play music.

## (7) Playback progress

Select to skip to the desired location.

## Playback

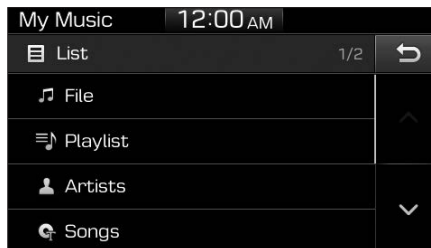
Press the **[MEDIA]** button, and select **[My Music]**.

- My Music cannot be selected if it does not contain music.
- Check the content of your USB drive before saving music to My Music.

## Changing songs

Press the **[SEEK/TRACK]** button to play the previous or next song.

- Press and hold the **[SEEK/TRACK]** button to rewind or fast forward the currently playing song.
- Search songs by turning the **TUNE** knob and press the knob to play.



## Selecting songs from a list

Select **[List]** to see a list of songs available for play.

Select and play the desired song.

## Repeat play

Select **[Repeat]** to enable or disable 'Repeat all', 'Repeat current song' or 'Repeat category' play.

- Repeat all: All songs in the playlist are repeated.
- Repeat current song: The currently playing song is repeated.
- Repeat category: Repeat all songs in the current category.

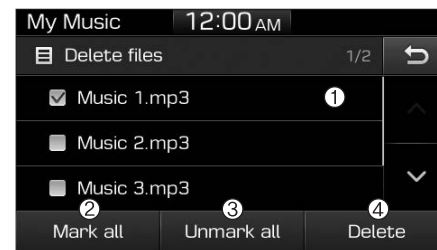
## Shuffle play

Select **[Shuffle]** to enable or disable 'Shuffle', 'Shuffle category' play.

- Shuffle: Songs are played in random order.
- Shuffle category: Songs within the current category are played in random order.

## Menu

Select **[Menu]**, and select the desired function.



- Delete files: You can delete files from My Music.

(1) File: Select saved file.

(2) Mark all: Select all files.

(3) Unmark all: Deselect all files.

- (4) Delete: Delete the selected file(s).
- Select the file to delete, then select [Delete] to delete it.
  - Delete is cancelled if phone calls are received or made during delete.
- Add to playlist: Frequently played songs can be paired in a [Playlist].
    - Songs can be played from the [Playlist].
  - Information: Detailed info on the currently playing song is displayed.
  - Sound Settings: Audio sound settings can be changed.

### Delete from playlist

When a song in the playlist is playing, select [Menu] and select [Delete from playlist].

Select the song to delete, then select [Delete].

## Phone

### Information

#### - Using Bluetooth® (BT) Phone

- Bluetooth® is a near-field wireless networking technology that uses the 2.4 GHz frequency to connect various devices within a certain distance wirelessly.
- The technology is used in PCs, peripherals, Bluetooth® phones, tablet PCs, household appliances and automobiles. Devices supporting Bluetooth® can exchange data at high speeds without physical cable connections.
- Bluetooth® Handsfree devices enable convenient access to phone functions through cell phones equipped with Bluetooth®.
- Some Bluetooth® devices may not be supported by the Bluetooth® Handsfree function.

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- When Bluetooth® is connected and calls are attempted through a connected cell phone from outside the vehicle, the call is connected through the Bluetooth® Handsfree function of the vehicle.
- Please be sure to disconnect the Bluetooth® Handsfree function through your Bluetooth® device or the audio screen.

### Safety precautions

- The Bluetooth® Handsfree function helps drivers to drive safely. By connecting a Bluetooth®-enabled phone to the vehicle's audio system, phone calls can be made and received through the audio system and contacts can be managed. Consult the user manual before use.
- Excessive manipulation of controls whilst driving, making it difficult to pay attention to the road ahead, can lead to accidents. Do not operate the device excessively whilst driving.
- Looking at the screen for a prolonged time increases the risk of accidents. Keep time spent looking at the screen to a minimum.

### Precautions when connecting Bluetooth® devices

- The vehicle supports the following Bluetooth® functions. Some Bluetooth® devices may not support some functions.
  - 1) Bluetooth® Handsfree phone calls
  - 2) Operations during a call (Private, Switch, Mic Vol. controls)
  - 3) Download call history saved to the Bluetooth® device
  - 4) Download contacts saved to the Bluetooth® device
  - 5) Automatic contacts/call history download when Bluetooth® is connected
  - 6) Automatic Bluetooth® device connection when the vehicle is started
  - 7) Bluetooth® audio streaming playback
- Before connecting the audio system to your device, make sure your device supports Bluetooth®.

- Even if your device supports Bluetooth®, a Bluetooth® connection cannot be established if the device's Bluetooth® function is switched off. Search and connect with the Bluetooth® function enabled.
- Pair or connect Bluetooth® devices to the audio system with the vehicle at a standstill.
- If a Bluetooth® connection is lost due to abnormal conditions whilst a Bluetooth® device is connected (communication range exceeded, device power OFF, communication errors, etc.), the disconnected Bluetooth® device is searched for and automatically reconnected.
- If you want to disable the Bluetooth® device auto-connect function, turn the Bluetooth® function OFF on your device. Consult the user manuals for individual devices to see whether Bluetooth® is supported.
- Handsfree call quality and volume may vary depending on the type of Bluetooth® device.



- Some Bluetooth® devices are subject to intermittent Bluetooth® connection failures. In this case, use the following method.

- 1) Turn the Bluetooth® function off on your Bluetooth® device → Turn it on and try again.
- 2) Delete the paired device from both the audio system and Bluetooth® device, then pair again.
- 3) Power down your Bluetooth® device → Turn it on and try again.
- 4) Completely remove the battery from your Bluetooth® device; reinsert it, reboot, and attempt connection.
- 5) Restart the vehicle and reattempt connection.

### **i** Information

**Maximum power output of Bluetooth is 3mW.**

### **Pairing a Bluetooth® device**

#### Information on pairing Bluetooth® devices

- Pairing refers to the process of pairing Bluetooth® cell phones or devices with the system prior to connection. This is a necessary procedure for Bluetooth® connection and usage.
- Up to five devices can be paired.
- Pairing Bluetooth® device is not allowed whilst vehicle is moving.

#### Pairing the first Bluetooth® device

Press the **[PHONE]** button on the audio system or the **[CALL]** button on the steering wheel remote control → Search for the vehicle from the Bluetooth® device, and pair → Enter the passkey on the Bluetooth® device or approve passkey → Bluetooth® pairing completed.

1. When the **[PHONE]** button on the audio or the **[CALL]** button on the steering wheel remote control is pressed, the following screen is displayed. Devices can now be paired.



- (1) Vehicle name: Searched name in Bluetooth® device.

### **i** Information

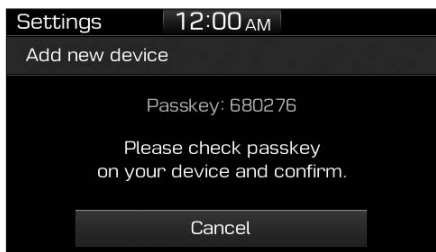
**The vehicle name in the image above is an example. Refer to your device for the actual name of your device.**

2. Search for available Bluetooth® devices in the Bluetooth® menu of your Bluetooth® device (cell phone, etc.).
3. Confirm that the vehicle name in your Bluetooth® device matches the vehicle name shown on the audio screen, then select it.

4-1. For devices that require passkey entry, a passkey entry screen is shown on your Bluetooth® device.

- Enter the passkey '0000', in your Bluetooth® device.

4-2. For devices that require passkey confirmation, the following screen is shown on the audio system. A 6-digit passkey input screen is shown in the Bluetooth® device.



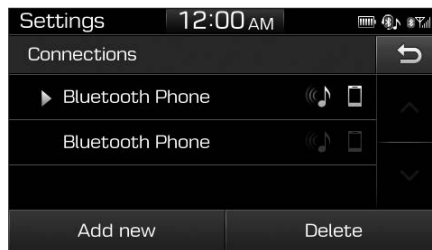
- After confirming that the 6-digit passkey on the audio screen and the Bluetooth® device are identical, select [OK] in your Bluetooth® device.

### **i** Information

The 6-digit passkey in the image above is an example. Refer to your vehicle for the actual passkey.

#### Pairing a second Bluetooth® device

Press the [SETUP] button on the audio system → Select [Bluetooth] → Select [Connections] → Select [Add new].



- The pairing procedure from this point is identical to [Pairing the first Bluetooth device].

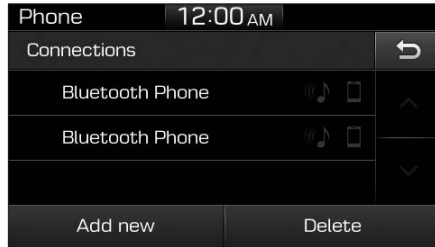
### **i** Information

- Bluetooth® standby mode lasts for three minutes. If a device is not paired within three minutes, pairing is cancelled. Start over from the beginning.
- For most Bluetooth® devices, a connection is established automatically after pairing. Some devices, however, require separate confirmation when connecting after pairing. Be sure to check your Bluetooth® device after pairing to confirm that it has connected.

### Connecting Bluetooth® devices

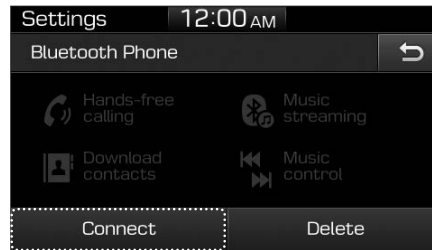
#### If there are no connected devices

Press the **[PHONE]** button on the audio system or the **[CALL]** button in the steering wheel remote control → List of paired Bluetooth® devices → Select the desired Bluetooth® device from the list → Connect Bluetooth®.



#### If there are connected devices

Press the **[PHONE]** button on the audio system → Select **[Settings]** → Select **[Connections]** → Select Bluetooth® device to connect → Select **[Connect]** → Connect Bluetooth®.



### **i** Information

- **Only one Bluetooth® device can be connected at a time.**
- **When a Bluetooth® device is connected, other devices cannot be paired.**

### Accepting/rejecting phone calls

Receiving phone calls with Bluetooth® connected.



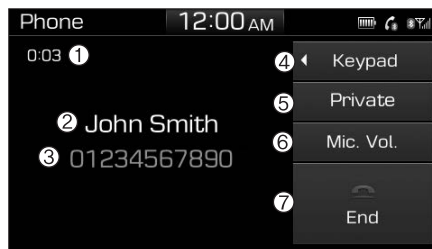
- (1) Caller name: If the caller number is in your contacts, the corresponding name is displayed.
- (2) Incoming phone number: Incoming phone number is displayed.
- (3) Accept: Accept call.
- (4) Reject: Reject call.

### **i** Information

- When the incoming call screen is displayed, audio mode and the settings screen cannot be shown. Only call volume control is supported.
- Some Bluetooth® devices may not support the call reject function.
- Some Bluetooth® devices may not support the phone number display function.

### **Operation during calls**

Incoming call with Bluetooth® connected → Select [Accept].



- (1) Call duration: Call duration display.
- (2) Caller name: If the caller number is in your contacts, the corresponding name is displayed.
- (3) Incoming phone number: Incoming phone number is displayed.
- (4) Keypad: Number keypad for Automatic Response Service input is displayed.
- (5) Private: Call is transferred to a cell phone.
- (6) Microphone Volume: Adjust outgoing voice volume.
- (7) End: End call.

### **i** Information

- Some Bluetooth® devices may not support the Private function.
- The outgoing voice volume may vary depending on the type of Bluetooth® device. If the outgoing voice volume is too high or low, adjust the Microphone Volume.

### **Favourites**

Press the [PHONE] button on the audio system → Select [Favourites] → Favourites list displayed.



- (1) Favourites list: A list of paired favourites is displayed. Connect a call when selected.

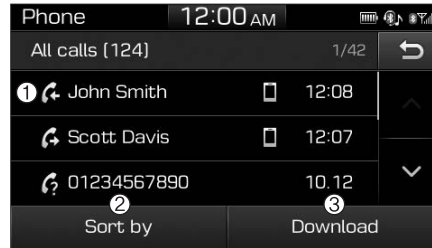
- (2) Add to favourites: Add a downloaded phone number to favourites.
- (3) Delete: Delete a saved favourites.

### **i** Information

- Up to 20 favourites can be saved for each connected Bluetooth® device.
- Favourites can be accessed when the Bluetooth® device they were paired from is connected.
- The audio system does not download favourites from Bluetooth® devices. Favourites must be newly saved before use.
- To add to favourites, contacts must be downloaded first.
- Saved favourites are not updated even if the contacts of the connected Bluetooth® device are changed. In this case, favourites need to be deleted and added again.

### **Call history**

Press the **[PHONE]** button on the audio system → Select [Call history] → Call history is displayed.



- (1) Call history: Display the downloaded call history list.  
Connect a call when selected.
- (2) Sort by: Sort by all calls, dialled calls, received calls or missed calls.
- (3) Download: Download call history from connected Bluetooth® devices.

### **i** Information

- Up to 50 dialled, received and missed calls are saved.
- When the latest call history is received, the existing call history is deleted.

### **Contacts**

Press the **[PHONE]** button on the audio system → Select [Contacts] → Select letter (ABC) → Contacts displayed.



- (1) Contacts: Display downloaded contacts.  
Connect a call when selected.
- (2) Download: Download contacts from connected Bluetooth® devices.

## **i** Information

- Only supported contacts format can be downloaded and displayed from the Bluetooth device, contacts from some applications will not be included.
- Up to 2,000 contacts can be saved.
- In some cases, additional confirmation from your Bluetooth® device is necessary when downloading contacts. If downloading of contacts unsuccessful, consult your Bluetooth® device's settings or the audio screen to approve the download.
- Contacts without phone numbers are not displayed.

## **Dial**

Press the **[PHONE]** button on the audio system → Select **[Dial]**.



- (1) Phone number entry window: The phone number entered using the keypad is displayed.
- (2) Clear
  - Select to delete individual digits.
  - Press and hold to delete the entire phone number.
- (3) Keypad: Enter phone number.
- (4) Bluetooth® Phone name
  - The name of the connected Bluetooth® device is displayed.
  - Contacts matching the keypad number/letter input are displayed.

## (5) Call

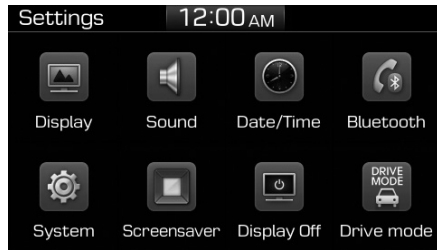
- Enter and select a phone number to call.
- Select without entering a phone number to see the most recent dialled call.

## **Settings**

Press the **[PHONE]** button on the audio system → Select **[Settings]**.

- For more details, refer to Setup → Bluetooth page.

## Setup



Access Display, Sound, Date/Time, Bluetooth, System, Screensaver, Display Off and Drive mode settings.

Press the **[SETUP]** button on the audio system.

### **Display**

Press the **[SETUP]** button on the audio system → Select [Display].

- Dimming mode: Adjusts the brightness automatically according to surrounding brightness.
- Brightness: The brightness of the audio screen can be changed.

### **Sound**

Press the **[SETUP]** button on the audio system → Select [Sound].

- Position: Sound balance and fader can be adjusted.
- Equaliser: Sound tone colour can be adjusted.
- Rear parking sensors prioritised: Automatically lower audio volume whilst reversing.
- Speed dependent volume control: Automatically adjust volume based on vehicle speed.
- Beep: Select whether to play a beep sound when the screen is touched.

### **Date/Time**

Press the **[SETUP]** button on the audio system → Select [Date/Time].

- Set time: Set the time displayed on the audio screen.
- Time format: Choose between 12-hour and 24-hour time formats.
- Set date: Set the date displayed on the audio screen.

### **Bluetooth**

Press the **[SETUP]** button on the audio system → Select [Bluetooth].

- Connections: Control pairing, deletion, connection and disconnection of Bluetooth® devices.
- Auto connection priority: Set the connection priority of Bluetooth® devices when the vehicle is started.
- Update contacts: Contacts can be downloaded from connected Bluetooth® devices.
- Bluetooth voice guidance: Play or mute voice prompts for Bluetooth® device pairing, connection and errors.

### **i** Information

- When paired devices are deleted, the call history and contacts of the device saved to the audio system are deleted.
- For Bluetooth® connections with low connection priority, some time may be required for the connection to be established.
- Contacts can be downloaded only from the currently connected Bluetooth® device.
- If no Bluetooth® device is connected, the Download Contacts button is disabled.
- If the language setting is Slovakian or Hungarian, Bluetooth voice guidance is not supported.

### **System**

Press the **[SETUP]** button on the audio system → Select [System].

- Memory information: View My Music memory usage.
- Language: Change the user language.
- Default: Reset the audio system.

### **i** Information

The system resets to the default values, and all saved data and settings are lost.

### **Screensaver**

Set the information displayed when the audio system is switched off or the screen is turned off.

Press the **[SETUP]** button on the audio system → Select [Screensaver].

- Analogue: An analog clock is displayed.
- Digital: A digital clock is displayed.
- None: No information is displayed.

### **Display Off**

To prevent glare, the screen can be turned off with the audio system in operation.

Press the **[SETUP]** button on the audio system → Select [Display Off].

### **i** Information

Use 'Screensaver' to set the information to be displayed when the screen is turned off.

### **Drive Mode**

Sets Drive Mode detailed settings for each vehicle control unit and notification settings for Mode changes.

Press the **[SETUP]** button on the audio system → Select [Drive mode].

### **i** Information

The options provided in the Vehicle Settings may vary by the vehicle model.



# Declaration of Conformity

## CE for EU

### Declaration of Conformity

We, manufacturer, hereby declare that the product

Model: ACBC2G4EE, ACB00G3GG, ACB10G3GG, ACB01G3GG, ACB11G3GG, ACB00G3BN,  
ACB10G3BN, ACB00G3GE, ACB10G3GE, ACB00G3GL, ACB10G3GL, ACB12G4RE, ACB11G4EG,  
ACB11G4EN, ACB13G4EE, ACB11G4EE, ACB13G4EE, ACB10G3MG, ACB00G3MG, ACB10S0EE,  
ACB13S0EE, ACBC0S0EE, ACBC1S0EE, ACB10S0EG, ACB11S0EG, ACB10S0EN, ACB11S0EE,  
ACB14S0EE, ACB10S0GL, ACB11S0GL, ACB10S0UG, ACB11S0UG  
Type: DIGITAL CAR AUDIO SYSTEM

satisfies all the technical regulations applicable to the product within the scope of Council Directives 2006/95/EC, 2004/108/EC and 99/5/EC:

Radio: EN 300 328 V 1.9.1(2015-02) \_\_\_\_\_  
EMC: EN 55013 : 2013 \_\_\_\_\_  
EN 55020 : 2007 / A11 : 2011 \_\_\_\_\_  
ETSI EN 301 489-1 V 1.9.2 \_\_\_\_\_  
ETSI EN 301 489-17 V 2.2.1 \_\_\_\_\_  
Safety: EN 60965:2014 \_\_\_\_\_

All essential radio test suites have been carried out.

Testing laboratory: DT&C Co., Ltd.

42, Yurim-ro, 154beon-gil, Cheoin-eu, Yongin-si, Gyeonggi-do, Korea, 449-935  
Tel. +82 31 321 2664 / Fax. +82 31 321 1664

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203, Teheran-ro, Gananam-gu, Seoul, 135-977, Korea  
Tel. 82-31-260-0098 / Fax. 82-31-899-1788

This declaration is issued under the sole responsibility of the manufacturer and, if applicable, his authorized Representative, and is marked in accordance with the CE marking directive 93/68/EEC.

Point of contact :

HYUNDAI MOBIS Co., Ltd. Tel. 82-31-260-0098 / Fax. 82-31-899-1788

Seoul, Korea Feb. 27, 2017



최승훈

/ S. H. Choe  
/ Director

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 **WARNING**

**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, we recommend that the exhaust system be checked as soon as possible by a HYUNDAI authorised repairer.

**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 windscreen clear of snow, ice, leaves, or other obstructions.

**If you must drive with the tailgate 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.

## 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 tyres 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 bonnet, the tailgate, and the doors are securely closed and locked.
- Adjust the position of the seat and steering wheel.
- Adjust the inside and outside rearview mirrors.
- Verify all the lights work.
- Fasten your seat belt. Check that all passengers have fastened their seat belt.
- 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.

### 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 details, refer to "Seat Belts" in chapter 2.**
- **Always drive defensively. Assume other drivers or pedestrians may be careless and make mistakes.**
- **Stay focused on the task of driving. Driver distraction can cause accidents.**
- **Leave plenty of space between you and the vehicle in front of you.**

**⚠ WARNING**

**NEVER** drink or take drugs and drive.

**Drinking or taking drugs and driving is dangerous and may result in an accident and SERIOUS INJURY or DEATH.**

**Drunk driving is the number one contributor to the highway death toll each year. Even a small amount of alcohol will affect your reflexes, perceptions and judgment. Just one drink can reduce your ability to respond to changing conditions and emergencies and your reaction time gets worse with each additional drink.**

**Driving whilst under the influence of drugs is as dangerous as 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.**

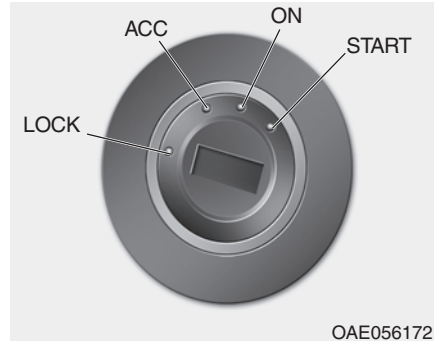
## IGNITION SWITCH

### **⚠ 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 ignition switch or related parts. Unexpected and sudden vehicle movement can occur.
- **NEVER** reach through the steering wheel for the ignition switch, or any other control, whilst 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.

### Key ignition switch (if equipped)



Whenever the front door is opened, the ignition switch will illuminate, provided the ignition switch is not in the ON position. The light will go off immediately when the ignition switch is turned on or go off after about 30 seconds when the door is closed. (if equipped)

### **⚠ WARNING**

- **NEVER** turn the ignition switch to the **LOCK** or **ACC** position whilst the vehicle is in motion except in an emergency.

(Continued)

### (Continued)

This will result in the engine 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 1st gear (for manual transmission vehicle) or P (Park, for dual clutch transmission vehicle) position, apply the parking brake, and turn the ignition switch to the **LOCK** position.

**Unexpected vehicle movement may occur if these precautions are not followed.**

### **NOTICE**

**Never use aftermarket keyhole covers. This may generate start-up failure due to communication failure.**



### **Key ignition switch positions**

<b>Switch Position</b>	<b>Action</b>	<b>Notes</b>
<b>LOCK</b>	<p>To turn the ignition switch to the LOCK position, push the key in at the ACC position and turn the key towards the LOCK position.</p> <p>The ignition key can be removed in the LOCK position.</p> <p>The steering wheel locks to protect the vehicle from theft. (if equipped)</p>	
<b>ACC</b>	<p>Some electrical accessories are usable.</p> <p>The steering wheel unlocks.</p>	<p>If difficulty is experienced turning the ignition switch to the ACC position, turn the key whilst turning the steering wheel right and left to release.</p>
<b>ON</b>	<p>This is the normal key position when the engine has started.</p> <p>All features and accessories are usable.</p> <p>The warning lights can be checked when you turn the ignition switch from ACC to ON.</p>	<p>Do not leave the ignition switch in the ON position when the engine is not running to prevent the battery from discharging.</p>
<b>START</b>	<p>To start the engine, turn the ignition switch to the START position.</p> <p>The switch returns to the ON position when you let go of the key.</p>	<p>The engine will crank until you release the key.</p>

## Starting the engine

### WARNING

- **Always wear appropriate shoes when operating your vehicle. Unsuitable shoes, such as high heels, ski boots, sandals, flip-flops, etc., may interfere with your ability to use the brake, accelerator and clutch pedals.**
- **Do not start the vehicle with the accelerator pedal depressed. The vehicle can move which can lead to an accident.**
- **Wait until the engine rpm is normal. The vehicle may suddenly move if the brake pedal is released when the rpm is high.**

Vehicle with manual transmission:

1. Make sure the parking brake is applied.
2. Make sure the shift lever is in neutral.
3. Depress the clutch and brake pedals.
4. Turn the ignition switch to the START position. Hold the key (maximum of 10 seconds) until the engine starts and release it.

Vehicle with dual clutch transmission:

1. Make sure the parking brake is applied.
2. Make sure the shift lever is in P (Park).
3. Depress the brake pedal.
4. Turn the ignition switch to the START position. Hold the key (maximum of 10 seconds) until the engine starts and release it.

### **i** Information

- Do not wait for the engine to warm up whilst 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 whilst starting the vehicle. Do not race the engine whilst warming it up.

### **NOTICE**

**To prevent damage to the vehicle:**

- Do not hold the ignition key in the START position for more than 10 seconds. Wait 5 to 10 seconds before trying again.
- Do not turn the ignition switch to the START position with the engine running. It may damage the starter.
- If traffic and road conditions permit, you may put the shift lever in the N (Neutral) position whilst the vehicle is still moving and turn the ignition switch to the START position in an attempt to restart the engine.
- Do not push or tow your vehicle to start the engine.

### **Turning off the engine**

1. Stop the vehicle and depress the clutch and brake pedals at the same time.
2. With the clutch and brake pedals depressed, put the shift lever in neutral.
3. Turn off the engine and apply the parking brake.

## Engine Start/Stop button (if equipped)



OPDE056001R

Whenever the front door is opened, the Engine Start/Stop button will illuminate and will go off 30 seconds after the door is closed.

### WARNING

To turn the engine 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 engine without depressing the brake pedal by pressing the Engine Start/Stop button with the shift lever in the N (Neutral) position.

### WARNING

- NEVER press the Engine Start/ Stop button whilst the vehicle is in motion except in an emergency. This will result in the engine 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 1st gear when the vehicle is parked on a uphill and in R (Reverse) on a downhill, 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

Button Position	Action	Notes
<p data-bbox="209 258 268 281"><b>OFF</b></p> 	<p data-bbox="384 264 895 314">To turn off the engine, stop the vehicle and then press the Engine Start/Stop button.</p> <p data-bbox="384 329 911 381">The steering wheel locks to protect the vehicle from theft. (if equipped)</p>	<p data-bbox="935 264 1469 342">If the steering wheel is not locked properly when you open the driver's door, the warning chime will sound.</p>
<p data-bbox="209 561 268 583"><b>ACC</b></p> 	<p data-bbox="384 566 871 650">Press the Engine Start/Stop button when the button is in the OFF position without depressing the clutch pedal.</p> <p data-bbox="384 665 855 687">Some electrical accessories are usable.</p> <p data-bbox="384 702 711 724">The steering wheel unlocks.</p>	<p data-bbox="935 566 1469 678">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.</p> <p data-bbox="935 693 1461 827">If the steering wheel doesn't unlock properly, the Engine Start/Stop button will not work. Press the Engine Start/Stop button whilst turning the steering wheel right and left to release.</p>



Button Position	Action	Notes
<p data-bbox="220 213 260 236"><b>ON</b></p> 	<p data-bbox="384 219 900 300">Press the Engine Start/Stop button whilst it is in the ACC position without depressing the clutch pedal.</p> <p data-bbox="384 311 884 365">The warning lights can be checked before the engine is started.</p>	<p data-bbox="935 219 1461 302">Do not leave the Engine Start/Stop button in the ON position when the engine is not running to prevent the battery from discharging.</p>
<p data-bbox="196 518 284 540"><b>START</b></p> 	<p data-bbox="384 524 895 602">To start the engine, depress the clutch and brake pedals and press the Engine Start/Stop button with the shift lever in neutral.</p>	<p data-bbox="935 524 1417 633">If you press the Engine Start/Stop button without depressing the clutch pedal, the engine does not start and the Engine Start/Stop button changes as follows:</p> <p data-bbox="935 642 1366 665"><b>OFF → ACC → ON → OFF or ACC</b></p>

### **Engine Stop/Start button positions**

#### **- Vehicle with dual clutch transmission**

Button Position	Action	Notes
<p style="text-align: center;"><b>OFF</b></p> 	<p>To turn off the engine, 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.</p> <p>The steering wheel locks to protect the vehicle from theft. (if equipped)</p>	<p>If the steering wheel is not locked properly when you open the driver's door, the warning chime will sound.</p>
<p style="text-align: center;"><b>ACC</b></p> 	<p>Press the Engine Start/Stop button when the button is in the OFF position without depressing the brake pedal.</p> <p>Some electrical accessories are usable.</p> <p>The steering wheel unlocks.</p>	<p>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.</p> <p>If the steering wheel doesn't unlock properly, the Engine Start/Stop button will not work. Press the Engine Start/Stop button whilst turning the steering wheel right and left to release tension.</p>

- Vehicle with dual clutch transmission

Button Position	Action	Notes
<p data-bbox="220 260 260 283"><b>ON</b></p>  <p>The image shows a circular button with a blue light bar at the top and the text 'ENGINE START STOP' in the center.</p>	<p data-bbox="384 266 901 348">Press the Engine Start/Stop button whilst it is in the ACC position without depressing the brake pedal.</p> <p data-bbox="384 359 884 412">The warning lights can be checked before the engine is started.</p>	<p data-bbox="935 266 1461 348">Do not leave the Engine Start/Stop button in the ON position when the engine is not running to prevent the battery from discharging.</p>
<p data-bbox="196 563 284 585"><b>START</b></p>  <p>The image shows a circular button with a horizontal line at the top and the text 'ENGINE START STOP' in the center.</p>	<p data-bbox="384 568 911 680">To start the engine, depress the brake pedal and press the Engine Start/Stop button with the shift lever in the P (Park) or in the N (Neutral) position.</p> <p data-bbox="384 692 863 744">For your safety, start the engine with the shift lever in the P (Park) position.</p>	<p data-bbox="935 568 1422 680">If you press the Engine Start/Stop button without depressing the brake pedal, the engine does not start and the Engine Start/Stop button changes as follows:</p> <p data-bbox="935 692 1366 714"><b>OFF → ACC → ON → OFF or ACC</b></p>




## Starting the engine

### WARNING

- Always wear appropriate shoes when operating your vehicle. Unsuitable shoes, such as high heels, ski boots, sandals, flip-flops, etc., may interfere with your ability to use the brake, accelerator and clutch pedals.
- Do not start the vehicle with the accelerator pedal depressed.  
The vehicle can move which can lead to an accident.
- Wait until the engine rpm is normal. The vehicle may suddenly move if the brake pedal is released when the rpm is high.

### Information

- The engine will start by pressing the Engine Start/Stop button, only when the smart key is in the vehicle.
- Even if the smart key is in the vehicle, if it is far away from the driver, the engine 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, and if all doors are closed, the chime will also sound for about 5 seconds. Keep the smart key in the vehicle when using the ACC position or if the vehicle engine is ON.

Vehicle with manual transmission:

1. Always carry the smart key with you.
2. Make sure the parking brake is applied.
3. Make sure the shift lever is in neutral.
4. Depress the clutch and brake pedals.
5. Press the Engine Start/Stop button.

Vehicle with dual clutch transmission:

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.

## **i** Information

- Do not wait for the engine to warm up whilst 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 whilst starting the vehicle. Do not race the engine whilst warming it up.

## **NOTICE**

To prevent damage to the vehicle:

- If traffic and road conditions permit, you may put the shift lever in the N (Neutral) position whilst the vehicle is still moving and press the Engine Start/Stop button in an attempt to restart the engine.
- Do not push or tow your vehicle to start the engine.

## **NOTICE**

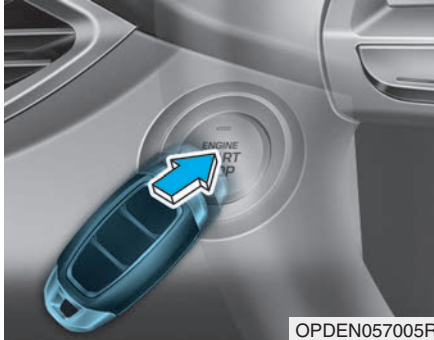
To prevent damage to the vehicle:

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 can't start the engine normally. Replace the fuse with a new one. If you are not able to replace the fuse, you can start the engine 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 and/or clutch pedal before starting the engine.

### ***Emergency starting***

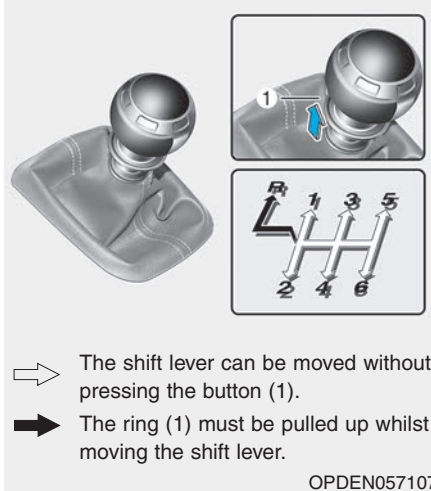


If the smart key battery is weak or the smart key does not work correctly, you can start the engine by pressing the Engine Start/Stop button with the smart key in the direction of the picture above.

### ***Turning off the engine***

1. Stop the vehicle and depress the clutch and brake pedals at the same time.
2. With the clutch and brake pedals depressed, put the shift lever in neutral.
3. Press the Engine Start/Stop button to the off position and apply the parking brake.

## MANUAL TRANSMISSION



- ⇒ The shift lever can be moved without pressing the button (1).
- ➔ The ring (1) must be pulled up whilst moving the shift lever.

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### Manual transmission operation

The manual transmission has 6 forward gears. The transmission is fully synchronized in all forward gears so shifting to either a higher or a lower gear is easily accomplished.

#### ⚠ WARNING

**Before leaving the driver's seat, always make sure the shift lever is in 1st gear when the vehicle is parked on a uphill and in R (Reverse) on a downhill, set the parking brake, and place the ignition switch in the LOCK/OFF position. Unexpected vehicle movement may occur if these precautions are not followed.**

To shift to R (Reverse), make sure the vehicle has completely stopped, and then move the shift lever to neutral before moving into R (Reverse).

When you've come to a complete stop and it's hard to shift into 1st gear or R (Reverse):

1. Put the shift lever in neutral and release the clutch pedal.
2. Depress the clutch pedal, and then shift into first or R (Reverse) gear.

#### **i** Information

During cold weather, shifting may be difficult until the transmission lubricant has warmed up.

### **Using the clutch**

The clutch pedal should be depressed all the way to the floor before:

- Starting the engine

The engine will not start without depressing the clutch pedal.

- Shifting into gear, up shifting to the next higher gear, or down shifting to the next lower gear.

When releasing the clutch pedal, release it slowly. The clutch pedal should always be released whilst driving.



### **CAUTION**

**To start or reverse the vehicle, release the clutch pedal slowly after shifting the gear. Sudden release of the clutch pedal may result in an abrupt accident.**

### **NOTICE**

**To prevent unnecessary wear or damage to the clutch:**

- **Do not rest your foot on the clutch pedal whilst driving.**
- **Do not hold the vehicle with the clutch on an incline, whilst waiting for the traffic light, etc.**
- **Always depress the clutch pedal down fully to prevent noise or damage.**
- **Do not repeatedly depress the clutch pedal before the clutch pedal returns back to its original place when released.**
- **Do not start with the 2nd (second) gear engaged except when you start on a slippery road.**
- **Do not drive with cargo loaded more than required loading capacity.**

### **Downshifting**

Downshift when you must slow down in heavy traffic or drive up a steep hill, to prevent engine load.

Also, downshifting reduces the chance of stalling and helps to accelerate when you need to increase your speed again.

When the vehicle is going downhill, downshifting helps maintain safe speed by providing brake power from the engine and results in less wear on the brakes.

## NOTICE

To prevent damage to the engine, clutch and transmission:

- When downshifting from 5th gear to 4th gear, be careful not to inadvertently push the shift lever sideways engaging the 2nd gear. A drastic downshift may cause the engine speed to increase to the point the tachometer will enter the red-zone.
- Do not downshift more than two gears at a time or downshift the gear when the engine is running at high speed (5,000 RPM or higher). Such a downshifting may damage the engine, clutch and the transmission.

## Good driving practices

- Never take the vehicle out of gear and coast down a hill. This is extremely dangerous.
- Don't "ride" the brakes. This can cause the brakes and related parts to overheat and malfunction.

When you are driving down a long hill, slow down and shift to a lower gear. Engine braking will help slow down the vehicle.

- Slow down before shifting to a lower gear. This will help avoid over-revving the engine, which can cause damage.
- Slow down when you encounter cross winds. This gives you much better control of your vehicle.
- Be sure the vehicle is completely stopped before you shift into R (Reverse) to prevent damage to the transmission.

- 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.

## WARNING

**Do not use aggressive engine braking (shifting from a higher gear to a lower gear) on slippery roads. This could cause the tyres to slip and may result in an accident.**

**⚠ WARNING**

To reduce the risk of **SERIOUS INJURY or DEATH:**

- **ALWAYS** wear your seat belt. In a collision, an unbelted occupant is significantly more likely to be seriously injured or killed than a properly belted occupant.
- Avoid high speeds when cornering or turning.
- Do not make quick steering wheel movements, such as sharp lane changes or fast, sharp turns.
- The risk of rollover is greatly increased if you lose control of your vehicle at highway speeds.
- Loss of control often occurs if two or more wheels drop off the roadway and the driver over steers to reenter the roadway.

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- 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.

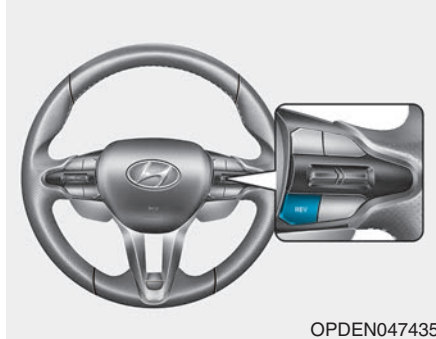
## Rev matching

The Rev Matching system automatically helps synchronise engine rpm with the optimal speed of the gear about to be engaged which reduces the impact of clutch connection and improves gear shift response.

### **i** Information

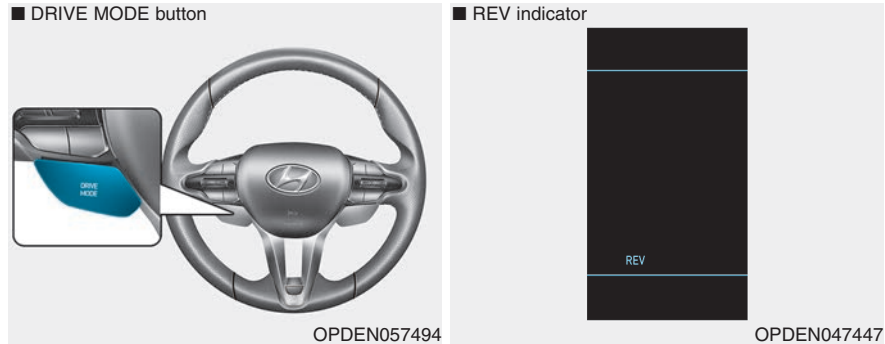
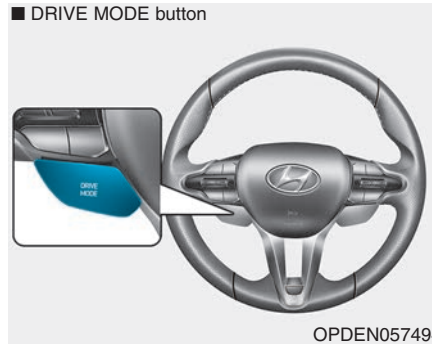
- Fully depress the clutch pedal. Without the clutch pedal fully depressed, the system may not response correctly.
- The system does not operate when backing up.
- Rev Matching controls the engine speed up to the rev limit, but the function cannot prevent over-revving caused by shifting mistake.

## Rev Matching activation



### 1. Press REV button (ON/OFF)

- Press the REV button to turn on the system. A message appears "Rev Matching On" with a REV indicator on the cluster LCD display.
- Press the REV button again to turn off the system. A message appears "Rev Matching Off" and the REV indicator disappears.



### 2. Select Drive Mode

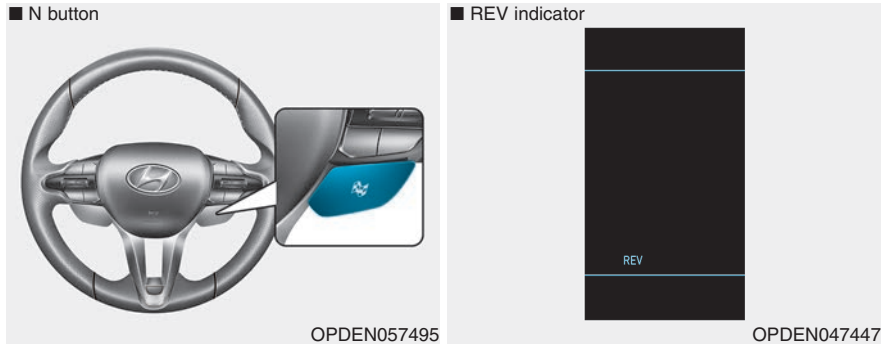
#### DRIVE MODE button

Use Rev Matching in normal driving conditions in below modes.

- When ECO mode is selected:
  - Rev Matching cannot be activated even if the driver presses the REV button.
  - REV indicator is off.
- When NORMAL mode is selected:
  - Rev Matching activates if Rev Matching is turned on by the REV button.
  - White REV indicator illuminates.
  - Engine rpm response during gear shift is smooth.
- When SPORT mode is selected:
  - Rev Matching activates if Rev Matching is turned on by the REV button.
  - Yellow REV indicator illuminates.
  - Engine rpm response is faster than NORMAL mode.

The system must be turned on by pressing the REV button whenever the engine is turned on.





### N button

Use Rev Matching when driving on race tracks, etc., in N mode.

- When N mode (SPORT+) is selected:
  - REV Matching is turned on automatically. To turn off Rev Matching, press the REV button.
  - Red REV indicator illuminates.
  - Engine speed is automatically adjusted to the shifted gear without the accelerator pedal depressed.
  - Engine rpm response is faster than SPORT mode when downshifting with heavy braking such as when driving on a race track.
- When CUSTOM mode is selected:
  - You may select the drive mode you prefer from the Audio or Infotainment system screen Custom setting page. (OFF/NORMAL/SPORT/SPORT+).

**For more details on "Custom Mode" refer to the Audio manual in chapter 4 or the separately supplied Multimedia manual.**

### Rev Matching operation

Engine speed is automatically synchronised with the next selected gear. The accelerator pedal does not have to be depressed to speed up the engine rpm.

- Clutch depressed with the gear engaged

At once, engine speed automatically decreases right after the clutch is disengaged, but the selected gear is fixed and then the engine rpm reverts to the selected gear's target speed. This operation method gives more comfortable feeling in public road driving.

- Upshifting

Engine speed will automatically decrease and stay at the target engine speed before the clutch is engaged.

- Downshifting

Engine speed will automatically increase and stay at the target engine speed.

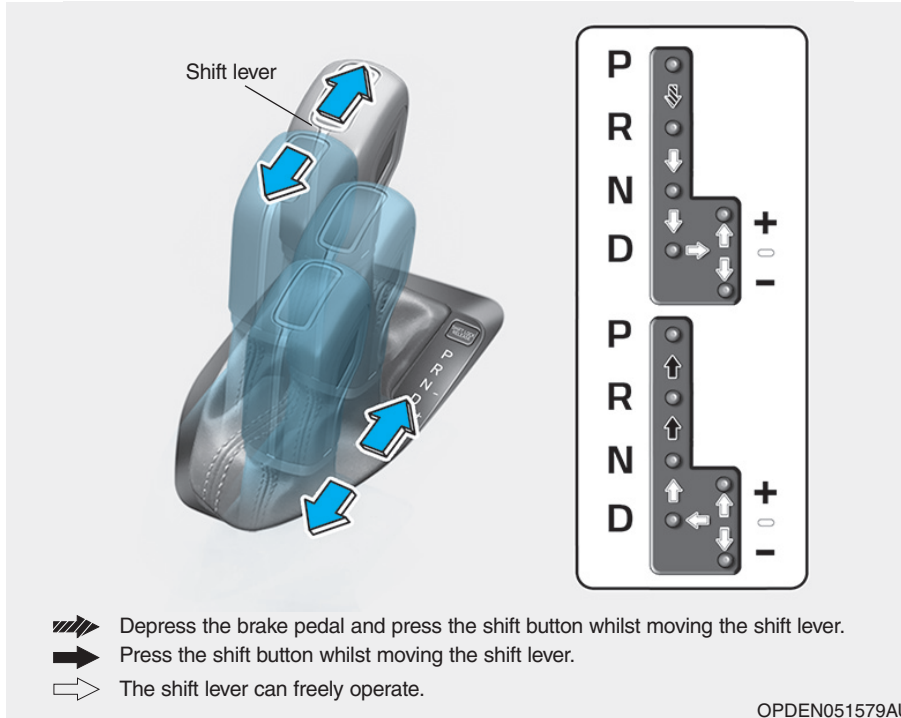
## ***Warning message***



### **Beware of engine damage when shifting whilst in high RPM**

If transmission input rpm is too high (over rev limit) due to shifting, a warning message will appear and a warning chime will sound.

## DUAL CLUTCH TRANSMISSION (IF EQUIPPED)



\* To move the shift lever from/to P (Parking) or between R (Reverse) and D (Drive), you must depress the brake pedal for the vehicle to stand still.

### Dual clutch transmission operation

The dual clutch transmission has eight forward speeds and one reverse speed. The individual speeds are selected automatically when the shift lever is in the D (Drive) position.

#### **⚠ 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, the set the parking brake, and place the ignition switch in the LOCK/OFF position. Unexpected and sudden vehicle movement can occur if these precautions are not followed.

(Continued)

**(Continued)**

- **When using Manual Shift Mode, use caution when shifting from a higher gear to a lower gear on slippery roads. This could cause the tyres to slip and may result in an accident.**
  - **To avoid damage to your transmission, do not try to accelerate with the shift lever in R (Reverse) or any forward gear position with the brake engaged.**
  - **When stopped on a slope, do not hold the vehicle with accelerator pedal. Engage the service brake or the parking brake.**
- The Dual Clutch Transmission gives the driving feel of a manual transmission, yet provides the ease of a fully automatic transmission. Unlike a traditional automatic transmission, the gear shifting can be felt (and heard) on the dual clutch transmission.
    - Think of it as an automatically shifting manual transmission.
    - Shift into Drive range and get fully automatic shifting, similar to a conventional automatic transmission.
  - Dual clutch transmission adopts wet-type dual clutch, which is different from torque converter of automatic transmission, and shows better acceleration performance during driving. But, initial launch might be little bit slower than Automatic Transmission.
  - The wet-type clutch transfers torque and provides a direct driving feeling which may feel different from a conventional automatic transmission with a torque converter. This may be more noticeable when starting from a stop or low vehicle speed.
  - When rapidly accelerating at low vehicle speed, engine could rev at high rpm depending on vehicle drive condition.
  - For smooth launch uphill, press down the accelerator pedal smoothly depending on the current conditions.
  - If you release your foot from the accelerator pedal at low vehicle speed, you may feel strong engine brake, which is similar to manual transmission.
  - When driving downhill, you may use Sports Mode to downshift to a lower gear in order to control your speed without using the brake pedal excessively.
  - When you turn the engine on and off, you may hear clicking sounds as the system goes through a self test. This is a normal sound for the Dual Clutch Transmission.

### NOTICE

- Always come to a complete stop before shifting into D (Drive) or R (Reverse).
- Do not put the shift lever in N (Neutral) whilst driving.

### ⚠ WARNING

Due to transmission failure, you may not continue to drive and the position indicator (D, P) on the instrument cluster will blink. We recommend that you contact a HYUNDAI authorised repairer and have the system checked.

## DCT warning messages

### Steep grade



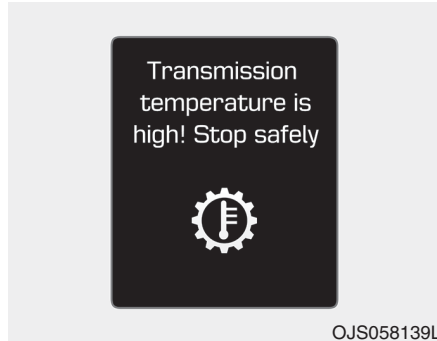
This warning message is displayed when vehicle is driven slowly on a grade and the vehicle detects that the brake pedal is not applied.

### Steep grade

Driving up hills or on steep grades:

- To hold the vehicle on an incline use the foot brake or the parking brake.
- When in stop-and-go traffic on an incline, keep some distance ahead before moving the vehicle forward. Then hold the vehicle on the incline with the foot brake.
- If the vehicle is held on a hill by applying the accelerator pedal or by creeping with brake pedal disengaged, the clutch and transmission may overheat which can result in damage. At this time, a warning message will appear on the LCD display.
- If the LCD warning is active, the foot brake must be applied.
- Ignoring the warnings can lead to damage to the transmission.

## Transmission high temperature



OJS058139L

- Under certain conditions, such as repeated stop-and-go launches on steep grades, sudden take off or acceleration, or other harsh driving conditions, the transmission clutch temperatures will increase excessively. Finally the clutch in transmission could be overheated.
- When the clutch is overheated, the safe protection mode engages and the gear position indicator on the cluster blinks with a chime. At this time, "Transmission temperature is high! Stop safely" warning message will appear on the LCD display and driving may not be smooth.

- If this occurs, pull over to a safe location, stop the vehicle with the engine running, apply the brakes and shift the vehicle to P (Park), and allow the transmission to cool.
- If you ignore this warning, the driving condition may become worse. You may experience abrupt shifts, frequent shifts, or jerkiness. To return to the normal driving condition, stop the vehicle and apply the foot brake or shift into P (Park). Then allow the transmission to cool for a few minutes with engine on, before driving off.
- When possible, drive the vehicle smoothly.

## Transmission overheated



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- If the vehicle continues to be driven and the clutch temperatures reach the maximum temperature limit, the "Transmission hot! Park with engine On" warning will be displayed. When this occurs the clutch is disabled until the clutch cools to normal temperatures.

- The warning will display a time to wait for the transmission to cool.
- If this occurs, pull over to a safe location, stop the vehicle with the engine running, apply the brakes and shift the vehicle to P (Park), and allow the transmission to cool.
- When the message "Transmission cooled down. Resume driving" appears you can continue to drive your vehicle.
- When possible, drive the vehicle smoothly.

If any of the warning messages in the LCD display continue to blink, for your safety, we recommend you contact a HYUNDAI authorised repairer and have the system checked.

### **Transmission ranges**

The indicator in the instrument cluster displays the shift lever position when the ignition switch 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 engine off.

### **WARNING**

- **Shifting into P (Park) whilst 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 engine off.**
- **When parking on an incline, block the wheels to prevent the vehicle from rolling down.**
- **For safety, always engage the parking brake with the shift lever in the P (Park) position except for the case of emergency parking.**
- **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) whilst the vehicle is in motion.**

## N (Neutral)

The wheels and transmission are not engaged.

Use N (Neutral) if you need to restart a stalled engine, or if it is necessary to stop with the engine ON. Shift into P (Park) if you need to leave your vehicle for any reason.

### WARNING

- **Do not shift gear unless your foot is firmly on the brake pedal. Shifting into gear when the engine is running at high speed can cause the vehicle to move very rapidly. You could lose control of the vehicle and hit people or objects.**
- **Do not drive with the shift lever in N (Neutral). The engine brake will not work and may lead to an accident.**

### CAUTION

**Always park the vehicle in P (Park) for safety and engage the parking brake.**

## D (Drive)

This is the normal driving position. The transmission will automatically shift through a 8-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).

To stop the vehicle during driving, Please depress brake pedal fully to prevent unintended movement.

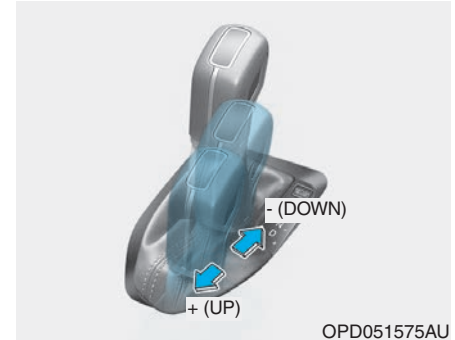


**⚠ WARNING**

- Do not shift into gear unless your foot is firmly on the brake pedal. Shifting into gear when the engine is running at high speed can cause the vehicle to move very rapidly. You may lose control of the vehicle and cause accidents.
- Do not drive with the shift lever in N (Neutral). The engine brake will not work and may lead to an accident.

**NOTICE**

Always make sure the vehicle is stationary, at a complete stop, before selecting D (Drive).



**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.

Manual shift mode manages the driving dynamics by automatically adjusting the steering effort, and the engine and transmission control logic for enhanced driver performance.

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.

M : Drive mode is shifted to manual shift mode when shifting lever is operated at M stage.

Up (+) : Pull the lever backwards once to shift down one gear.

Down (-) : Push the lever forward once to shift up one gear.

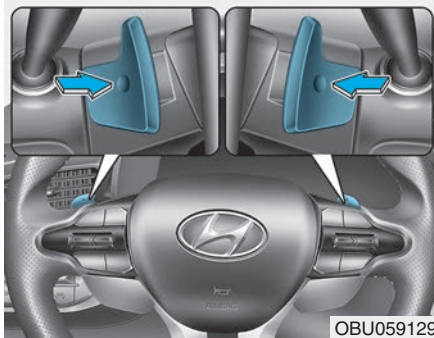
### **i** Information

- If the driver presses the lever to +(Up) or – (Down) position, the transmission may not make the requested gear change if the next gear is outside of the allowable engine rpm range. The driver must execute upshifts in accordance with road conditions, taking care to keep the engine rpms below the red zone.
- In manual shift mode, only the 8 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, and only when the vehicle is stopped and not moving.
- In manual shift mode, downshifts are made automatically when the vehicle slows down. When the vehicle stops, 1st gear is automatically selected.
- To maintain the required levels of vehicle performance and safety, the system may not execute certain gearshifts when the shift lever is operated.
- In manual shift mode, the fuel efficiency may decrease.

### **NOTICE**

**Whilst stopping the vehicle by applying parking brake in D gear, even if you release the parking brake, the vehicle may not move. In this case, you can drive the vehicle by applying the foot brake and release, applying the accelerator or shifting the lever (D → N → D).**

### ***Paddle shifter (if equipped)***



The paddle shifter is functional when the shift lever is in the D (Drive) position or the manual shift mode.

#### **With the shift lever in the D position**

The paddle shifter will operate when the vehicle speed is more than 10km/h.

Pull the [+] or [-] paddle shifter once to shift up or down one gear and the system changes from automatic mode to manual mode.

When the vehicle speed is lower than 10km/h, if you depress the accelerator pedal for more than 5 seconds or if you move the shift lever from D (Drive) to manual shift mode and move it from manual shift mode to D (Drive) again, the system changes from manual mode to automatic mode.

When the engine reaches maximum rpm in manual shift mode by paddle shifting at shift lever D (driving) position, the shift is automatically performed.

#### **With the shift lever in the manual shift mode**

Pull the [+] or [-] paddle shifter once to shift up or down one gear.

In the manual shift mode (+, -) position, even when the engine reaches full speed, it does not shift automatically.

#### ***i* Information**

**If the [+] and [-] paddle shifters are pulled at the same time, gear shift may not occur.**

### **Shift-lock system**

For your safety, the dual clutch 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.
2. Start the engine or place the ignition switch in the ON position.
3. Move the shift lever.

#### **⚠ WARNING**

**Always fully depress the brake pedal before and whilst shifting out of the P (Park) position into another position to avoid inadvertent motion of the vehicle which could injure persons in or around the vehicle.**

### **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 ignition switch in the LOCK/OFF position.
2. Apply the parking brake.
3. Push the shift-lock release button (1).
4. Move the shift lever whilst pushing the shift-lock release button.
5. Stop pushing the shift-lock release button.

6. Depress the brake pedal, and the restart the engine.

If you need to use the shift-lock release, we recommend that the system be inspected by a HYUNDAI authorised repairer immediately.

### **Ignition key interlock system (if equipped)**

The ignition key cannot be removed unless the shift lever is in the P (Park) position.

### 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 ignition switch in the LOCK/OFF position. Take the Key with you when exiting the vehicle.

#### 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 (Revers) or D (Drive).
- Never take the vehicle out of gear and coast down a hill. Always leave the vehicle in gear when moving.
- Do not “ride” the brakes. This can cause them to overheat and malfunction. Instead, when you are driving down a long hill, slow down and shift to a lower gear. When you do this, engine braking will help slow the car.
- When driving in manual shift mode, slow down before shifting to a lower gear. Otherwise, the lower gear may not be engaged if the engine rpms are outside of the allowable range.
- 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.

**⚠ WARNING**

To reduce the risk of **SERIOUS INJURY** or **DEATH**:

- When driving uphill or downhill, always shift to D (Drive) for driving forward or shift to R (Reverse) for driving rearwards. After selecting D (Drive) or R (Reverse), check the gear position indicated on the cluster before driving. If you drive in the opposite direction of the selected gear, the engine will turn off and a serious accident might occur due to degraded brake performance.
- Always buckle-up! In a collision, an unbelted occupant is significantly more likely to be seriously injured or killed than a properly belted occupant.

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- Avoid high speeds when cornering or turning.
- Do not make quick steering wheel movements, such as sharp lane changes or fast, sharp turns.
- The risk of rollover is greatly increased if you lose control of your vehicle at highway speeds.
- Loss of control often occurs if two or more wheels drop off the roadway and the driver over steers to reenter the roadway.
- In the event your vehicle leaves the roadway, do not steer sharply. Instead, slow down before pulling back into the travel lanes.
- **HYUNDAI** recommends you follow all posted speed limits.

**⚠ WARNING**

If your vehicle is stuck in snow, mud, sand, etc., you may attempt to free the vehicle by rocking it back and forth. Do not attempt this procedure if people or objects are anywhere near. Vehicle may suddenly move forward or backward as it becomes unstuck, causing injury or damage to nearby people or objects.

## BRAKING SYSTEM

### Power brakes

Your vehicle has power-assisted brakes that adjust automatically through normal usage.

If the engine is not running or is turned off whilst 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 engine is not running, 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.

### Information

- When the brake pedal is depressed under certain driving conditions or weather conditions, you may temporarily hear a noise. This is normal and does not indicate a problem with your brakes.
- Whilst driving on a road with deicing chemicals, brake noise or abnormal tyre wear may occur due to deicing chemicals. In a safe traffic condition, additionally apply the brakes to remove deicing chemicals on the brake discs and pads.

### WARNING

Take the following precautions:

- Do not drive with your foot resting on the brake pedal. This will create abnormal high brake temperatures, excessive brake lining and pad wear, and increased stopping distances.
- When descending a long or steep hill, shift to a lower gear and avoid continuous application of the brakes. Applying the brakes continuously will cause the brakes to overheat and could result in a temporary loss of braking performance.

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- 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 whilst maintaining a safe forward speed until brake performance returns to normal. Avoid driving at high speeds until the brakes function correctly.
- The brake pressure (%) displayed on the infotainment screen may differ from the actual brake pressure.

### Disc brakes wear indicator

When your brake pads are worn and new pads are required, you will hear a high pitched warning sound from your front or rear brakes. You may hear this sound come and go or it may occur whenever you depress the brake pedal.

#### NOTICE

To avoid costly brake repairs, do not continue to drive with worn brake pads.

#### **i** Information

Always replace brake pads as complete front or rear axle sets.

### High performance brake

For vehicles equipped with the High Performance Brake (applied with material having high coefficient of friction), noise such as a squeal, squeak or groan is generated whilst braking. This is normal and the friction may create circle patterns on the disc surface. This is also a normal situation which does not affect braking performance.

#### NOTICE

- Occasional brake noise is normal. If a continuous grinding or continuous squeal sound is present, the brake lining may be worn-out. We recommend that the vehicle be checked by a HYUNDAI authorised repairer.
- If the vehicle has continuous vibration or shudder in the steering wheel whilst braking, we recommend that the vehicle be checked by a HYUNDAI authorised repairer.

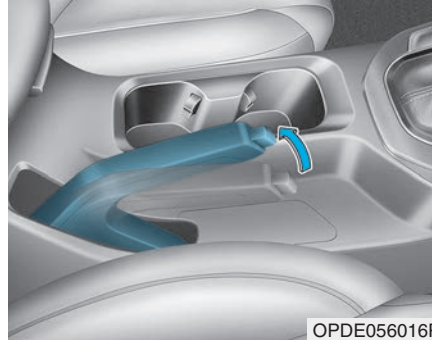


**⚠ WARNING**

Frequent speeding and braking may deform components and worn the disc brake causing vibration when braking. Prevent brake damage by avoiding excessive braking.

Brake wear, noise, vibration from excessive braking or deformation of the brakes caused by repeatedly braking in high speed, racing on tracks, etc., can be excluded from warranty coverage.

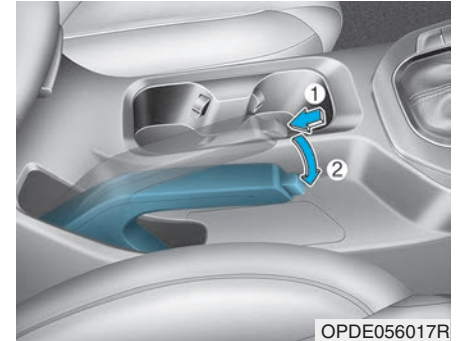
**Parking brake**



Always set the parking brake before leaving the vehicle, to apply:  
Firmly depress the brake pedal.  
Pull up the parking brake lever as far as possible.

**⚠ WARNING**

To reduce the risk of **SERIOUS INJURY** or **DEATH**, do not operate the parking brake whilst the vehicle is moving except in an emergency situation. It could damage the brake system and lead to an accident.



To release:

Firmly depress the brake pedal.  
Slightly pull up the parking brake lever.  
Whilst pressing the release button (1), lower the parking brake (2).

If the parking brake does not release or does not release all the way, we recommend that the system be checked by a HYUNDAI authorised repairer.

## 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 1st gear when the vehicle is parked on an uphill and in R (Reverse) on a downhill, then apply the parking brake, and place the ignition switch in the LOCK/OFF position. Vehicles with the parking brake not fully engaged are at risk for moving inadvertently and causing injury to yourself or others.
- When parking on an incline, block the wheels to prevent the vehicle from rolling down.
- 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.

(Continued)

(Continued)

- 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 whilst the parking brake is engaged. If you depress the accelerator pedal with the parking brake engaged, a 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 ignition switch to the ON position (do not start the engine).

This light will be illuminated when the parking brake is applied with the ignition switch 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 whilst the engine is running, there may be a malfunction in the brake system. Immediate attention is necessary.

If at all possible, cease driving the vehicle immediately. If that is not possible, use extreme caution whilst operating the vehicle and only continue to drive the vehicle until you can reach a safe location.

## Anti-lock Brake System (ABS)

### WARNING

An Anti-Lock Braking System (ABS) or an Electronic Stability Control (ESC) system will not prevent accidents due to improper or dangerous driving manoeuvres. Even though vehicle control is improved during emergency braking, always maintain a safe distance between you and objects ahead of you. Vehicle speeds should always be reduced during extreme road conditions. The braking distance for vehicles equipped with ABS or ESC may be longer than for those without these systems in the following road conditions.

Drive your vehicle at reduced speeds during the following conditions:

- Rough, gravel or snow-covered roads.

(Continued)

(Continued)

- On roads where the road surface is pitted or has different surface height.
- Tyre 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 (  ) will stay on for several seconds after the Ignition switch is placed 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. We recommend that you contact a HYUNDAI authorised repairer as soon as possible.

## 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, we recommend that you contact your HYUNDAI authorised repairer 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 (  ) may illuminate. Pull your vehicle 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. We recommend that you contact a HYUNDAI authorised repairer as soon as possible.**

## Information

**When you jump start your vehicle because of a drained battery, the ABS warning light (  ) may turn on at the same time. This happens because of the low battery voltage. It does not mean your ABS is malfunctioning. Have the battery recharged before driving the vehicle.**

### Electronic Stability Control (ESC)

The Electronic Stability Control (ESC) system helps to stabilize the vehicle during cornering manoeuvres.

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 road conditions.

#### WARNING

**Never drive too fast for the road conditions or too quickly when cornering. The ESC system will not prevent accidents.**

**Excessive speed in turns, abrupt manoeuvres, and hydroplaning on wet surfaces can result in severe accidents.**

### ESC operation



#### ESC ON condition

When the ignition switch 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. (After a new ignition cycle, the ESC ON mode is always activated (default setting).)

You may select between the following state of ESC:

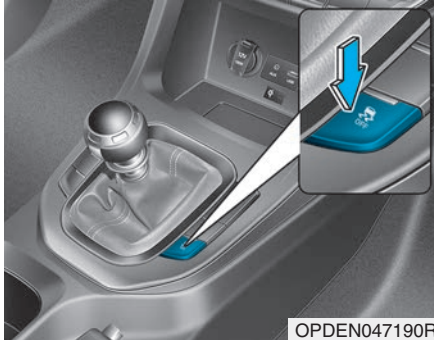
- ESC NORMAL activated (ESC ON)
- ESC SPORT activated (ESC SPORT indicator illuminates)
- ESC deactivated (ESC OFF indicator illuminates)

### When operating

When the ESC is in operation, the ESC indicator light blinks:

- When you apply your brakes under conditions which may lock the wheels, you may hear sounds from the brakes, or feel a corresponding sensation in the brake pedal. This is normal and it means your ESC is active.
- When the ESC operates, 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. (if equipped)**
- 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.

## Deactivating / Activating ESC



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You may select between the following state of ESC:

- ESC NORMAL activated
- ESC SPORT activated (ESC SPORT indicator illuminates)
- ESC deactivated (ESC OFF indicator illuminates)

### WARNING

- If you deactivate ESC, ESC no longer stabilizes the vehicle. There is an increased risk of skidding and an accident.
- When ESC SPORT mode is activated, the stability support from ESC will be less than in "ESC ON mode", there is a greater risk of skidding and an accident.

**Only deactivate ESC or activate ESC SPORT in the situations described in the following.**

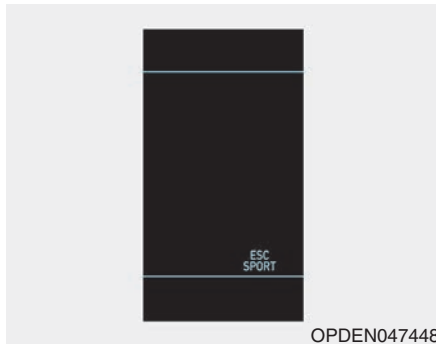
In the following situations, it may be better to activate ESC SPORT or deactivate ESC (ESC OFF):

- When using snow chains
- Driving in deep snow
- Driving in sand or gravel
- Driving on specially designed roads where oversteering and understeering characteristics are desired

We recommend only qualified and experienced drivers to drive the vehicle with the ESC deactivated or ESC SPORT activated.

### CAUTION

**After the above situations are over, activate ESC immediately. If not, the vehicle can be unstable due to vehicle slip or wheel spin.**



### ESC SPORT

#### • To activate ESC SPORT mode

Press the ESC OFF button briefly. The ESC SPORT indicator light illuminates on the cluster LCD display. In this state, ESC only stabilizes the vehicle to a limited degree.

When ESC SPORT mode is activated:

- ESC only improves driving stability to a limited degree.
- Traction control is still activated, but with less wheel control (more slip).
- Engine torque can partially be limited for the vehicle's stability and the driving wheel spin may be restricted for better traction.

#### • To deactivate ESC SPORT mode

Press the ESC OFF button briefly. The ESC SPORT indicator light will go off on the cluster LCD display.

### To deactivate ESC (ESC OFF)



Press and hold the ESC OFF button continuously for more than 3 seconds. The ESC OFF indicator light and

message "Traction & Stability Control disabled" illuminates and a warning chime sounds. In this state, both the traction control function of ESC (engine management) and the brake control function of ESC (braking management) are disabled.

To activate the ESC again, briefly press the ESC OFF button. The ESC OFF indicator light will go off.

### Indicator lights

- ESC indicator light (blinks)



- ESC OFF indicator light (comes on)



When the ignition switch is in the ON position, the ESC indicator light illuminates, then goes off if the ESC system is operating normally.

The ESC indicator light blinks whenever the ESC is operating.

If the ESC indicator light stays on, your vehicle may have a malfunction with the ESC system. When this warning light illuminates we recommend that the vehicle be checked by a HYUNDAI authorised repairer as soon as possible.

The ESC OFF indicator light comes on when the ESC is turned off with the button.

### **WARNING**

When the ESC is blinking, this indicates the ESC is active:

Drive slowly and NEVER attempt to accelerate. NEVER turn the ESC off whilst the ESC indicator light is blinking or you may lose control of the vehicle resulting in an accident.

### **NOTICE**

Driving with wheels and tyres with different sizes may cause the ESC system to malfunction. Before replacing tyres, make sure all four tyres and wheels are the same size. Never drive the vehicle with different sized wheels and tyres installed.

### **WARNING**

Don't use ESC SPORT mode or ESC OFF whilst using a minispare tyre or a tyre repair kit is in use!

### *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 whilst driving, press the ESC OFF button whilst driving on a flat road surface.

### **NOTICE**

To prevent damage to the transmission:

- Do not allow wheel(s) of one axle to spin excessively whilst the ESC, ABS, and parking brake warning lights are displayed. The repairs would not be covered by the vehicle warranty. Reduce engine power and do not spin the wheel(s) excessively whilst these lights are displayed.
- When operating the vehicle on a dynamometer, make sure the ESC is turned off (ESC OFF light illuminated).

### **Information**

Turning the ESC off does not affect ABS or standard brake system operation.



### Drive mode selection

When the ESC is on, the characteristic of ESC varies according to which drive mode is selected by pressing the DRIVE MODE or N button on the steering wheel.

Mode button	Selected mode	Characteristic of ESC
DRIVE MODE button	ECO mode	NORMAL
	NORMAL mode	NORMAL
	SPORT mode	NORMAL
N button	N mode	SPORT
	N CUSTOM mode	NORMAL/SPORT/OFF

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

### CUSTOM mode

You may select the drive mode you prefer from the Audio or Infotainment system screen.

- Select CUSTOM mode by pressing the N button on the steering wheel. The audio or AVN screen will display the CUSTOM mode menu. From the CUSTOM mode menu, select 'ESC → NORMAL / SPORT / OFF'.
- You may directly go to the CUSTOM mode menu by touching the audio or Infotainment system screen. **For more details, refer to the Audio manual in chapter 4 or the separately supplied Multimedia manual.**



When ESC is turned off or on from the CUSTOM mode, you may not turn OFF/ON the system with the ESC OFF button. If the ESC OFF button is pressed, a message "ESC will be Off in CUSTOM mode. Hold flag button for 3 sec to continue" will appear on the cluster LCD display. You may change the state of ESC (NORMAL, SPORT, OFF) from the CUSTOM mode.

## 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 tyres can suddenly become uneven.

### WARNING

**Take the following precautions when using the Vehicle Stability Management (VSM):**

- **ALWAYS check the speed and the distance to the vehicle ahead. The VSM is not a substitute for safe driving practices.**
- **Never drive too fast for the road conditions. The VSM system will not prevent accidents. Excessive speed in bad weather, slippery and uneven roads can result in severe accidents.**

## VSM operation

### VSM ON condition

The VSM operates when:

- The Electronic Stability Control (ESC) is on.
- Vehicle speed is approximately above 9 mph (15 km/h) on curve roads.
- Vehicle speed is approximately above 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.

## Information

The VSM does not operate when:

- **Driving on a banked road such as gradient or incline.**
- **Driving in reverse.**
- **The ESC OFF indicator light is on.**
- **The EPS (Electric power steering) warning light (⚠) is on or blinks.**

**⚠ WARNING**

If the ESC indicator light (  ) or EPS warning light (  ) stays or blinks, your vehicle may have a malfunction with the VSM system. When the warning light illuminates we recommend that the vehicle be checked by a HYUNDAI authorised repairer as soon as possible.

**NOTICE**

Driving with wheels and tyres with different sizes may cause the ESC system to malfunction. Before replacing tyres, make sure all four tyres and wheels are the same size. Never drive the vehicle with different sized tyres 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.

**⚠ WARNING**

**Always be ready to depress the accelerator pedal when starting off on a incline. The HAC activates only for approximately 2 seconds.**

**i Information**

- The HAC does not operate when the shift lever is in P (Park) or N (Neutral).
- The HAC activates even when the ESC (Electronic Stability Control) is off. However, it does not activate, when the ESC does not operate normally.

### Emergency Stop Signal (ESS) (if equipped)

The Emergency Stop Signal system alerts the driver behind by blinking the stop lights, whilst sharply and severely braking.

The system is activated when:

- The vehicle suddenly stops. (The deceleration power exceeds 7 m/s<sup>2</sup>, and the driving speed exceeds 34 mph (55 km/h).)
- The ABS is activated and the driving speed exceeds 34 mph (55 km/h).

The hazard warning flasher automatically turns ON after blinking the stop lights:

- When the driving speed is under 25 mph (40 km/h),
- When the ABS is deactivated, and
- When the sudden braking situation is over.

The hazard warning flasher turns OFF:

- When the vehicle drives at a low speed for a certain period of time.

The driver can manually turn OFF the hazard warning flasher by pressing the button.

### Information

The Emergency Stop Signal (ESS) system will not activate, when the hazard warning flashers are already on.

## Good braking practices

### 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 1st gear when the vehicle is parked on a uphill and in R (Reverse) on a downhill, then apply the parking brake, and place the ignition switch in the LOCK/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 we recommend that you call a HYUNDAI authorised repairer 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 tyre goes flat whilst you are driving, apply the brakes gently and keep the vehicle pointed straight ahead whilst 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.

### **CAUTION**

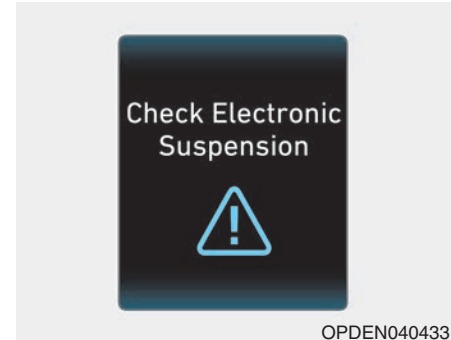
#### **Brake override system**

The system assists safe deceleration by reducing the engine power when the accelerator pedal is jammed or stuck and when you continue depressing the brake pedal. However, the system is deactivated when ESC is OFF in N mode. When the system is disabled, the brake distance may be longer than when the system is activated.

## **ELECTRONIC CONTROL SUSPENSION (ECS)**

The Electronic Control Suspension (ECS) controls the vehicle suspension automatically to maximise driving comfort by taking into account the driving conditions such as speed, surface of the road, cornering, stopping requirements and acceleration.

### **System malfunction**



#### **Check Electronic Suspension**

If the ECS warning message comes on, you may have a problem with the ECS system. We recommend that you have the system checked by a HYUNDAI authorised repairer.

## ELECTRONIC LIMITED SLIP DIFFERENTIAL (IF EQUIPPED)

Electronic Limited Slip Differential refers to a feature equipped with a mechanism that controls the differential functions of the wheels.

The Electronic Limited Slip Differential helps:

- Improve handling performance when circling at high speed.
- Improve launching performance.
- Prevent slipping on rainy or snowy roads due to dissimilar friction of the left and right wheels.

### WARNING

**Never run wheels with one of them lifted by the jack. It is extremely dangerous for a vehicle equipped with Electronic Limited Slip Differential.**

### *Drive mode selection*

The characteristic of e-LSD varies according to which drive mode is selected by pressing the DRIVE MODE or N button on the steering wheel.

Mode button	Selected mode	Characteristic of e-LSD
DRIVE MODE button	ECO mode	NORMAL
	NORMAL mode	NORMAL
	SPORT mode	SPORT
N button	N mode	SPORT
	N CUSTOM mode	NORMAL/SPORT

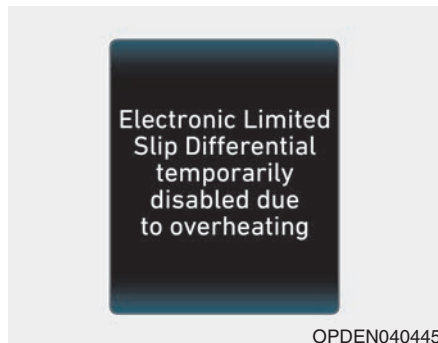
For more details, refer to "Drive Mode Integrated Control System" in this chapter.

### CUSTOM mode

You may select the drive mode you prefer from the Audio or Infotainment system screen.

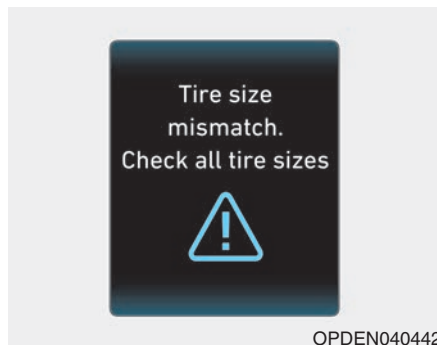
- Select CUSTOM mode by pressing the N button on the steering wheel. The audio or Infotainment system screen will display the CUSTOM mode menu. From the CUSTOM mode menu, select 'e-LSD → NORMAL/SPORT'.
- You may directly go to the CUSTOM mode menu by touching the audio or Infotainment system screen. **For more details, refer to the Audio manual in chapter 4 or the separately supplied Multimedia manual.**

## Warning messages



### Electronic Limited Slip Differential disabled temporarily due to overheating

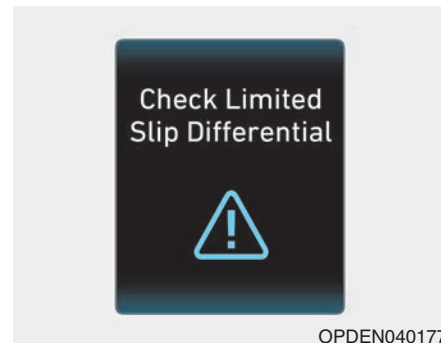
Overheating of related parts will temporarily disable e-LSD. Wait until the vehicle cools down.



### Tyre size mismatch. Check tyre sizes

If your vehicle is equipped with different tyres (size, type, etc.) on the front, the message will appear. To use the Electronic Limited Slip Differential, equip the vehicle with the same tyres on the front.

## System malfunction

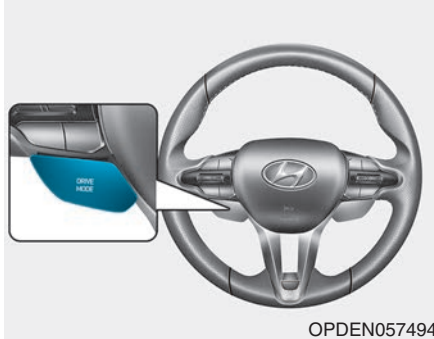


### Check limited slip differential

If the Electronic Limited Slip Differential warning message comes on, you may have a problem with the Electronic Limited Slip Differential system. We recommend that you have the system checked by a HYUNDAI authorised repairer

## DRIVE MODE INTEGRATED CONTROL SYSTEM

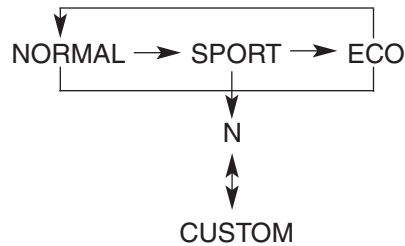
### DRIVE MODE button



The drive mode may be selected according to the driver's preference or road condition.

The system resets to be in the NORMAL mode, when the engine is restarted.

The mode changes, whenever the DRIVE MODE button is pressed.



When NORMAL mode is selected, it is not displayed on the instrument cluster.

### ECO mode



When the Drive Mode is set to ECO mode, the engine and transmission control logic are changed to maximise 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 change to NORMAL mode.
- If the vehicle is equipped with intelligent manual transmission, whenever the engine is restarted, the Drive Mode will change to 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 whilst 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.  
The system will be limited due to the shift location.
- When the accelerator pedal is deeply depressed for a few seconds:  
The system will be limited, judging that the driver wants to speed up.

### *SPORT mode*

**SPORT**

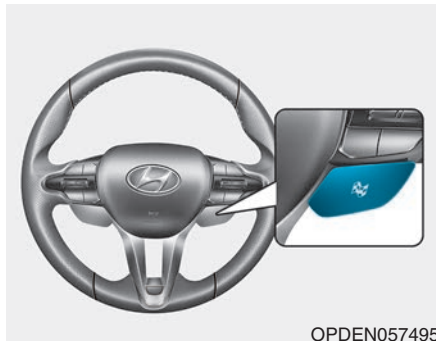
SPORT mode manages the driving dynamics by automatically adjusting the steering effort, the engine and transmission control logic for enhanced driving performance.

- When SPORT mode is selected by pressing the DRIVE MODE button, the SPORT indicator will illuminate.
- When SPORT mode is activated:
  - The engine rpm will tend to remain raised over a certain length of time even after releasing the accelerator
  - Upshifts are delayed when accelerating

### **i** Information

**In SPORT mode, the fuel efficiency may decrease.**

## N button



N mode or CUSTOM mode may be selected by pressing the N button.

The system resets to be in the NORMAL mode, when the engine is restarted.

The mode changes, whenever the N button is pressed.

## N mode



N mode selects the proper driving mode among SPORT and SPORT+ for each components that will effect the performance of a high-performance vehicle.

- When N mode is selected by pressing the N button, the N indicator will illuminate.
- N mode (SPORT/SPORT+) manages the driving dynamics by automatically adjusting the steering effort, and the engine and transmission control logic for enhanced driver performance.
- When N mode (SPORT/SPORT+) 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

## NOTICE

**In SPORT/SPORT+ mode, the fuel efficiency may decrease.**

### **CUSTOM mode**

CUSTOM

In CUSTOM mode, the driver can select the drive mode for each component they prefer on the display audio screen.

- Engine : NORMAL/SPORT/SPORT+
- Transmission (for DCT) : NORMAL/SPORT/SPORT+ and CREEP START function\*1 ON/OFF (For DCT)
- Rev matching (for MT) : OFF/NORMAL/SPORT/SPORT+
- E-LSD (Electronic Limited Slip Differential) : NORMAL/SPORT
- Suspension : NORMAL/SPORT/SPORT+
- Steering : NORMAL/SPORT/SPORT+
- ESC (Electronic Stability Control) : NORMAL/SPORT/OFF
- Exhaust sound : NORMAL/SPORT/SPORT+

\*1 CREEP START function (default setting ON) :

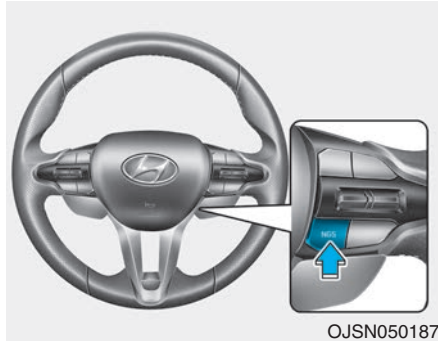
When OFF is set, vehicle will not start automatically even if the brake pedal is not pressed in D stop state.

**For more details, refer to the separately supplied Multimedia manual.**

### **NGS (N Grin Shift)**

Controls engine / transmission to maximum performance when pressing NGS button on the steering wheel remote control in situations where rapid acceleration is required.

## Functional description and operating conditions

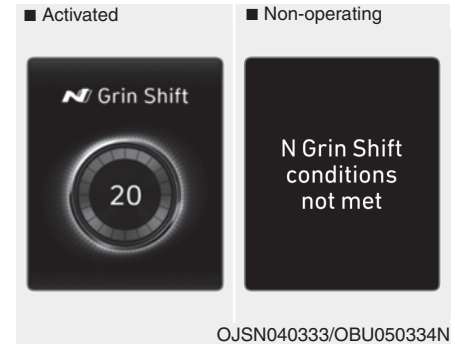


When NGS button is pressed:

- Automatically shifts to the lowest allowable gear (Automatic shifting is not performed in manual shift mode)
- Engine overboost operates when accelerating
- N Grin Shift is available for 20 Seconds
- N Grin Shift can be reused 40 seconds later after using the function for 20 seconds

N Grin Shift will turn off during operation or will not operate when:

- Changing Drive-mode during N Grin Shift operation
- Engine check light is on
- Transmission high temperature (overheating) lights on
- Transmission malfunction
- Shift lever is in P/ R/ N
- Using N Grin Shift within 40 seconds after using the function for 20 seconds



### CAUTION

- **The driver should hold the responsibility to safely drive and control the vehicle when using N Grin Shift.**
- **Do not attempt dangerous driving whilst using N Grin Shift.**
- **It is recommended to use after vehicle break-in and continuous use of N Grin Shift can overload the vehicle components such as transmission, engine and drive shaft.**

### Vehicle characteristic

The characteristic of each components varies according to which drive mode is selected by pressing the DRIVE MODE or N button on the steering wheel.

M/T	Component	DRIVE MODE Button			N Button	
		ECO mode	NORMAL mode	SPORT mode	N mode	CUSTOM mode
Engine & Driving	Engine	ECO	NORMAL	SPORT	SPORT+	NORMAL / SPORT / SPORT+
	Rev matching	OFF	NORMAL	SPORT	SPORT+	OFF / NORMAL / SPORT / SPORT+
	e-LSD *1	NORMAL	NORMAL	SPORT	SPORT	NORMAL / SPORT
Chassis	Suspension	NORMAL	NORMAL	SPORT	SPORT+	NORMAL / SPORT / SPORT+
	Steering	NORMAL	NORMAL	SPORT	SPORT+	NORMAL / SPORT / SPORT+
	ESC *2	NORMAL	NORMAL	NORMAL	SPORT	NORMAL / SPORT / OFF
Sound	Exhaust sound *3	ECO	NORMAL	SPORT	SPORT+	NORMAL / SPORT / SPORT+

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

\*1 : Electronic Limited Slip Differential

\*2 : Electronic Stability Control

\*3 : a) The volume of the exhaust sound made by the exhaust gas flap (if equipped) changes according to the mode selected.

**[Quietest]** ECO/NORMAL mode < SPORT mode < N mode **[Loudest]**

b) An exhaust crackle sound, to deliver emotional effect, is produced whilst driving when the accelerator pedal is released right after being depressed.

This exhaust sound effect will be heard when SPORT+ is selected for the Sound component. To turn it off, select NORMAL or SPORT for the Engine component in CUSTOM mode.

c) Please be aware and be mindful when using exhaust sound system in SPORT+ mode as the pops and bangs can cause disturbance to your neighbors when using it in a crowded public area, closed parking spaces, and/or residential area. We strongly recommend to use it with consideration.

M/T : Manual Transmission

DCT	Component	DRIVE MODE Button			N Button		NGS Button (N Grin Shift)
		ECO mode	NORMAL mode	SPORT mode	N mode	CUSTOM mode	
Engine & Driving	Engine	ECO	NORMAL	SPORT	SPORT+	NORMAL / SPORT / SPORT+	SPORT+
	Transmission* <sup>4</sup>	ECO	NORMAL	SPORT	SPORT+	NORMAL / SPORT / SPORT+	SPORT+
	e-LSD * <sup>1</sup>	NORMAL	NORMAL	SPORT	SPORT	NORMAL / SPORT	Maintain mode before entering NGS
Chassis	Suspension	NORMAL	NORMAL	SPORT	SPORT+	NORMAL / SPORT / SPORT+	
	Steering	NORMAL	NORMAL	SPORT	SPORT+	NORMAL / SPORT / SPORT+	
	ESC * <sup>2</sup>	NORMAL	NORMAL	NORMAL	SPORT	NORMAL / SPORT / OFF	
Sound	Exhaust sound * <sup>3</sup>	ECO	NORMAL	SPORT	SPORT+	NORMAL / SPORT / SPORT+	SPORT+

\*<sup>1</sup> : Electronic Limited Slip Differential

\*<sup>2</sup> : Electronic Stability Control

\*<sup>3</sup> : a) The volume of the exhaust sound made by the exhaust gas flap (if equipped) changes according to the mode selected.

**[Quietest]** ECO/NORMAL mode < SPORT mode < N mode **[Loudest]**

b) An exhaust crackle sound, to deliver emotional effect, is produced whilst driving when the accelerator pedal is released right after being depressed. This exhaust sound effect will be heard when SPORT+ is selected for the Sound component. To turn it off, select NORMAL or SPORT for the Engine component in CUSTOM mode.

c) Please be aware and be mindful when using exhaust sound system in SPORT+ mode as the pops and bangs can cause disturbance to your neighbors when using it in a crowded public area, closed parking spaces, and/or residential area. We strongly recommend to use it with consideration.

\*<sup>4</sup> : Automatic creep start function can be turned ON / OFF in CUSTOM setup menu.

DCT : Dual Clutch Transmission

## PERFORMANCE OPTION (IF EQUIPPED)

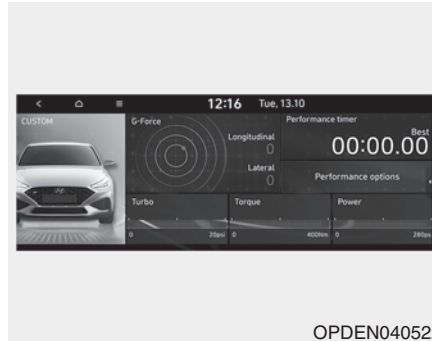
### CAUTION

Please note that using high performance exhaust sound in a crowded public area, closed parking spaces, and/or residential area can cause disturbance to your neighbors.

### Performance option settings

1. Press 'N mode' in Infotainment system home screen to go to N mode settings screen.
2. In the 'N Mode' screen, press 'Menu → 'Performance Options'. The Performance options settings screen will appear.

### Launch Control



Launch Control system controls the vehicle to reduce wheel spin or slip on a hard acceleration from a standing start.

### *Prerequisite for activation*

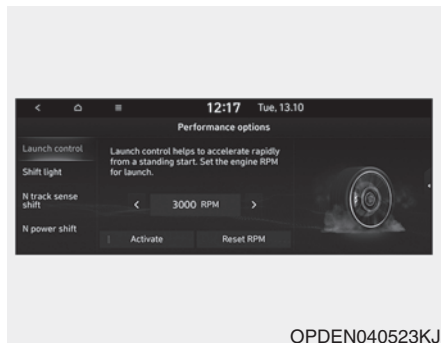
Launch Control gets ready to be activated, when the following prerequisites are satisfied.

- The engine is warmed up.
- The driver's seatbelt is fastened.
- All doors, bonnet and liftgate are closed.
- The vehicle is at a complete stop.
- Malfunction warning lights related to the engine and ESC (Electronic Stability Control) is off.

## NOTICE

- Warm up the tyres before using launch control for the best result.
- Launch Control is intended for use at a closed race track with dry road surface and not intended for use on public roads. It will not compensate for driver's who are inexperienced or lack familiarity with the race track.
- Do not use Launch Control in poor road condition (for example, wet, sand, snow). Control over vehicle may be lost with poor road condition and driver inattentions. Do not endanger other road users by using Launch Control.
- Do not use Launch Control during break-in period of the vehicle.
- Constant use of Launch Control can put enormous stress on the vehicle resulting in premature wear of related components.

## How to activate Launch Control



1. Press the 'Launch Control' tab.
2. Press the '▲ (Up)' or '▼ (Down)' to set the engine RPM for launch control.
3. Press 'Activate' to enter Launch Control ready state.
4. Press 'Reset RPM' to reset engine RPM to default launch control engine speed.

## Launch control on and off (For Manual Transmission)

1. Select N mode with 'N' button (N mode indicator will illuminate on the cluster) or select SPORT+ for the engine mode in CUSTOM mode.
2. Check that the ESC mode is ESC SPORT mode or ESC OFF. If not, press ESC OFF button to set the ESC mode to ESC SPORT mode or ESC OFF. (Electronic Stability Control (ESC) does not operate when ESC OFF.)
3. Select 'Performance Options → Launch Control' to set engine RPM from the Infotainment system screen. After setting RPM, press 'Activate'.
4. Align the steering wheel straight
5. Depress the clutch pedal.
6. Shift to 1st gear.



7. Whilst depressing the clutch pedal with your left foot, quickly and fully depress the accelerator pedal with your right foot. Launch control will be in the ready state. The message 'Launch Control Ready' will appear on the cluster. If necessary, adjust engine rpm with the cruise control switch (+/-).
8. A smooth, quick release of the clutch pedal within 8 seconds, whilst maintaining full depression of the accelerator pedal will initiate launching of the vehicle. The message 'Launch Control Active' will appear on the cluster.
9. Control will deactivate when the accelerator pedal is released.

### ***Launch control on and off (For Dual Clutch Transmission)***

1. Select N mode with 'N' button (N mode indicator will illuminate on the cluster) or select SPORT+ for the engine mode in CUSTOM mode.
2. Check that the ESC mode is ESC SPORT mode or ESC OFF. If not, press ESC OFF button to set the ESC mode to ESC SPORT mode or ESC OFF. (Electronic Stability Control (ESC) does not operate when ESC OFF.)
3. Shift the gear to D (Drive) or M (Manual shift mode). (When Manual shift mode is selected, driver must shift manually.)
4. Select 'Performance Options → Launch Control' to set engine RPM from the Infotainment system screen. After setting RPM, press 'Activate'.
5. Align the steering wheel straight
6. Depress the brake pedal to the maximum with your left foot.

7. Whilst depressing the brake pedal with your left foot, quickly and fully depress the accelerator pedal with your right foot. Launch control will be in the ready state. The message 'Launch Control Ready' will appear on the cluster. If necessary, adjust engine rpm with the cruise control switch (+/-).
8. A smooth, quick release of the brake pedal within 8 seconds, whilst maintaining full depression of the accelerator pedal will initiate launching of the vehicle. The message 'Launch Control Active' will appear on the cluster.
9. Launch Control will deactivate when the accelerator pedal is released.

**⚠ CAUTION**

**(For Manual Transmission)**

- If you depress the clutch pedal and the accelerator pedal at the same time and then release the accelerator pedal, Launch Control is released.
- Launch Control is available again after it is cooled down for at least 2 minutes.
- If you do not launch the vehicle within 8 seconds in launch control "READY" state, launch control will be automatically aborted.

**⚠ CAUTION**

**(For Dual Clutch Transmission)**

- If you depress the brake pedal and the accelerator pedal at the same time and then release the accelerator pedal, Launch Control is released.
- Launch Control is available again after it is cooled down for at least 2 minutes.
- If you do not launch the vehicle within 8 seconds in launch control "READY" state, launch control will be automatically aborted.

**⚠ CAUTION**

**Performance of Launch Control is highly dependent on clutch release technique, tyre friction and road conditions. In other words, the use of Launch Control does not always guarantee the maximum launch performance.**

## Shift Light



When engine is operating in a high rpm area, it is indicated by LEDs according to the corresponding engine rpm.

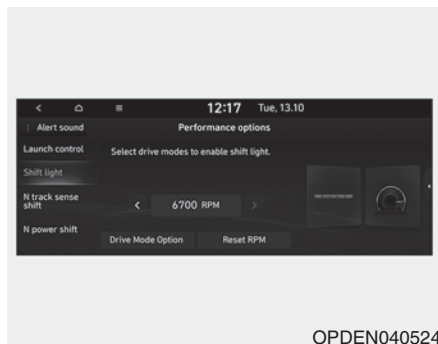
As the engine rpm approaches to the limit, each LED lights up sequentially, and when all five LEDs flashes, it is time to shift (upshift) immediately.

In the Performance Option's "Shift Light" tab of the infotainment system's N Mode, you can set which mode is displayed and the target RPM speed.

(N Mode → Performance Option → Shift Light)

### How to set shift Light

1. Press 'Shift Light' tab in Performance Options.



2. Select drive mode to activate shift Light. (ECO/NORMAL/SPORT/N/CUSTOM)
3. Set up target rpm by pressing ▲ (Up) and ▼ (Down). (6000rpm - 6700rpm)
4. Press 'Alert Sound' to choose whether or not to execute.
5. Press 'Reset RPM' to reset the target RPM speed.

\* Engine speed change notification (LED blinks and beeps) is sent before engine speed reaches to the set value to shift at set target RPM speed.

### Shift Light operation table (For Dual Clutch Transmission)

Blinking of all 5 LEDs, works only in the fixed shift mode where manual upshift is required.

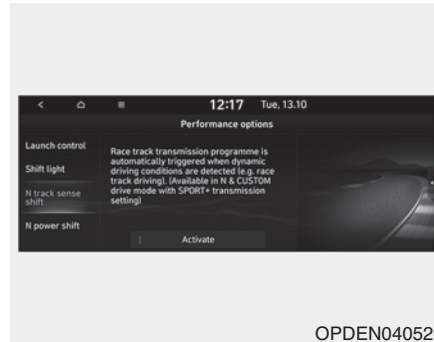
Shift lever position	Shift mode	LED step lighting	All LED blink (upshift notification)
D	Automatic shift mode	X	X
	N Grin Shift operation	O	X
	N Track Shift operation	O	X
	Temporary manual shift mode (enter D stage paddle shifter operation)	O	X
M	Fixed shift mode (no automatic upshift)	O	O

## N Track Sense Shift (For Dual Clutch Transmission)

N Track Sense Shift is automatically activated when dynamic driving condition with lots of cornering manoeuvre is detected. (for example, Race track driving).

The program enables stress-free track driving by automatically shifting down at the entry of corner and maintains lower gear during cornering as if you are shifting manually in professional manner. N Track Sense Shift provides lower gear when level of driving aggression increases.

### How to set N Track Sense Shift



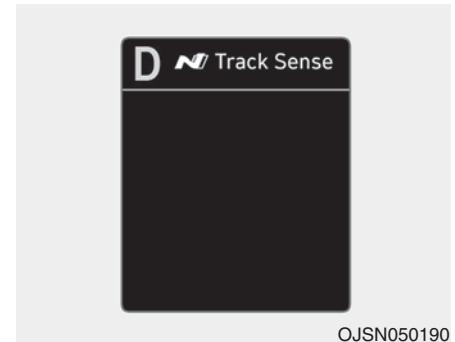
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1. Press 'N Mode → Performance Option → N Track Sense Shift' on the infotainment system home screen to enter the N Track Sense Shift setting screen.
2. In N Track Sense Shift setup screen, press 'Activate' to select enable/disable features.

- \* When the vehicle is released for the first time, function is activated.
- \* Active/Deactivated setting is saved even when the vehicle is restarted.

### Operating condition

- N Track Sense Shift is enabled in the Performance Options settings
- Shift lever in D (Drive) position
- Transmission mode is SPORT or SPORT+ (Including SPORT or N Riding Mode)
- Vehicle speed is above 21 mph (35km/h)
- Cornering-oriented dynamic driving detection
- \* When N Track Sense Shift is operating, a message is displayed in the instrument cluster LCD screen as shown below.



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### ***Non-operating conditions***

- N Track Sense Shift is disabled in Performance Options settings
- Shift lever position is in P/R/N
- Changing Transmission mode during operation (Transmission mode does not work in ECO, NORMAL or manual shift mode.)
- Cruise Control is operating
- Engine warning light is on
- Vehicle speed is below 21 mph (35 km/h)
- ✳ When N Track Sense Shift is deactivated, the displayed message will disappear from the instrument LCD screen.

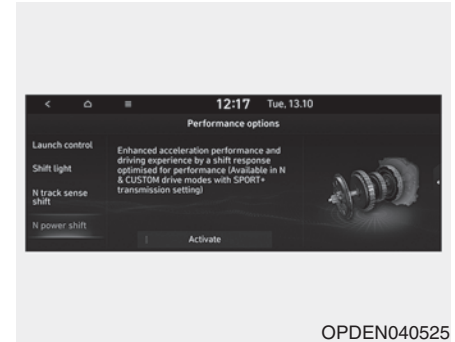
### **⚠ CAUTION**

**Vehicle safety and control must be at your own discretion and do not attempt to drive dangerously to operate N Track Sense Shift.**

### **⚠ WARNING**

**N Track Sense is activated only automatically when vehicle recognises dynamic driving (longitudinal & lateral forces). Only operate in accordance with local road rules and in safe conditions. Driving the vehicle in certain circumstances or participating in certain driving activities can impact your new vehicle warranty. See your Service Warranty Passport for full warranty terms, conditions and exclusions.**

## **N Power Shift (For Dual Clutch Transmission)**



When the driver depresses the accelerator pedal fully (100%) in N mode for faster acceleration, it controls by (up-) shifting with minimal energy loss.

N Power Shift can be deactivated by pressing 'Activate' on the screen. When N Power Shift is deactivated, vehicle shifting is similar to normal shifting. However, it is activated when the engine is restarted.

## IDLE STOP AND GO (ISG) SYSTEM (IF EQUIPPED)

The ISG system is to reduce the fuel consumption by automatically shutting down the engine, when the vehicle is at a standstill (for example, red stop light, stop sign, and traffic jam).

The engine is automatically started upon satisfying the starting conditions.

The ISG system is always active, when the engine is running.

### **i** Information

**When the engine is automatically started by the ISG system, some warning lights (for example, ABS, ESC, ESC OFF, EPS, and parking brake warning light) may illuminate for a few seconds due to the low battery voltage. However, it does not indicate a malfunction with the ISG system.**

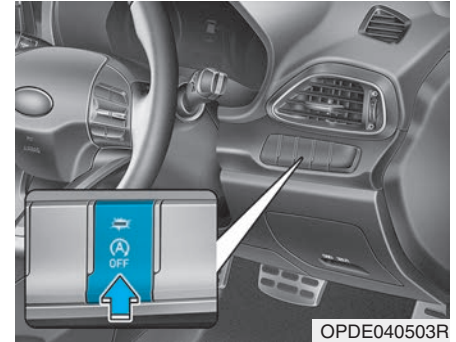
### To activate the ISG system

#### **Prerequisite for activation**

The ISG system operates in the following situations.

- The driver's seatbelt is fastened.
- The driver's door and the bonnet are closed.
- The brake vacuum pressure is adequate.
- The battery is sufficiently charged.
- The outside temperature is between -10 °C and 35 °C (14 °F and 95 °F).
- The engine coolant temperature is not too low.
- The system is not in the diagnostic mode.
- The steering wheel is not steered excessively. (for dual clutch transmission)
- The vehicle is driven on a steep incline. (for dual clutch transmission)

### **i** Information



- The ISG system is not activated, when the prerequisites to activate the ISG system are unsatisfied. In this case, the ISG OFF button indicator illuminates, and the auto stop indicator (**(A)**) illuminates in yellow on the instrument cluster.
- When the above indicator remains illuminated on the instrument cluster, we recommend that you have the ISG system checked by a HYUNDAI authorised repairer.

### Auto stop

To stop the engine in idle stop mode



### Manual transmission vehicle

1. Decrease the vehicle speed to 3 mph (5 km/h).
2. Set the gear in N (Neutral).
3. Release the clutch pedal.

The auto stop indicator ((A)) illuminates in green on the instrument cluster, when the engine stops.

### **i** Information

The driving speed must reach at least 6 mph (10 km/h) after an idle stop to stop the engine in idle stop mode again.

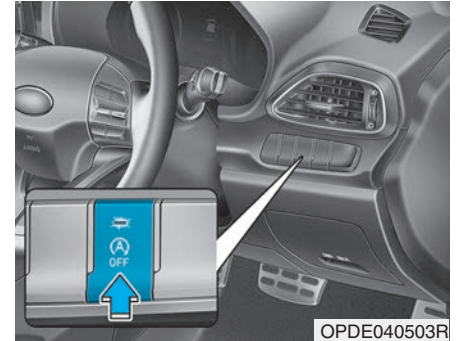
### Dual clutch transmission vehicle

1. Decrease the vehicle speed to 0 km/h.
2. Depress the brake pedal with the shift lever in D (Drive) or N (Neutral).

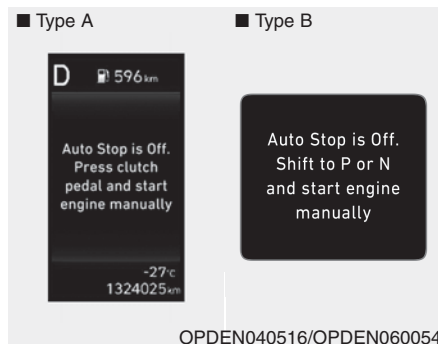
The auto stop indicator ((A)) illuminates in green on the instrument cluster, when the engine stops.

In auto stop mode, when the driver opens the bonnet, the ISG system will be deactivated.

When the system is deactivated:



The ISG OFF button indicator illuminates.



The messages are displayed on the instrument cluster to help use ISG system.

At this time, restart the vehicle manually by:

#### **Manual transmission vehicle**

Depressing the clutch and brake pedal with the gear in neutral.

#### **Dual clutch transmission vehicle**

Depressing the brake pedal with the shift lever in P (Park) or N (Neutral).

But for your safety, restart the vehicle in the P (Park) position.

### **Auto start**

To restart the engine in the auto stop mode

#### **Manual transmission vehicle**

Depress the clutch pedal with the gear in N (Neutral).

The auto stop indicator ((A)) goes OFF on the instrument cluster, when the engine is restarted.

#### **Dual clutch transmission vehicle**

- Release the brake pedal.
- When Auto Hold is activated, if you release the brake pedal, the engine will be in the auto stop state. However, if you depress the accelerator pedal, the engine will start again.

The auto stop indicator ((A)) goes OFF on the instrument cluster, when the engine is restarted.

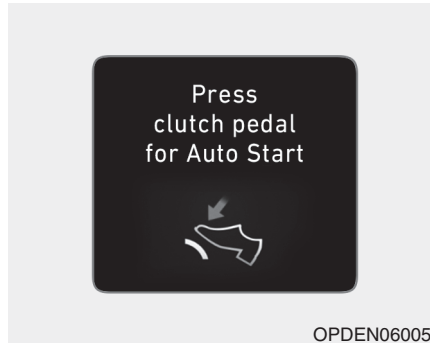
The engine is automatically restarted in the following situations.

- The fan speed of the manual climate control system is set above the 3rd position, with the air condition ON.
- The fan speed of the automatic climate control system is set above the 6th position, with the air condition ON.
- A certain period of time has elapsed with the air condition ON.
- The defroster is activated.
- The brake vacuum pressure is low.
- The battery is weak.
- The driving speed exceeds 3 mph (5 km/h).



- The driving speed exceeds 1.2 mph. (for Dual clutch transmission vehicle)
- The vehicle is shifted to P (Park) or R (Reverse) when the brake pedal is depressed.
- The door is opened or seat belt is unfastened when the brake pedal is depressed.

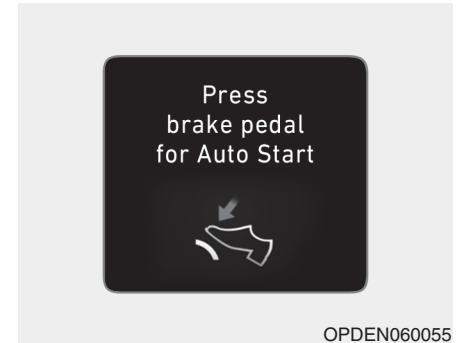
The auto stop indicator ((A)) blinks in green for 5 seconds on the instrument cluster and a message "Auto Start" will appear on the LCD display.



**The auto start is temporarily deactivated in the following situations.**

### **Manual transmission vehicle**

When the gear is shifted without the clutch pedal depressed. A message "Press clutch pedal for Auto Start" will appear on the LCD display. To activate auto start, shift to neutral and depress the clutch pedal.



### **Dual clutch transmission vehicle**

When the shift lever is shifted from N (Neutral) to R (Reverse), D (Drive) or Manual shift mode without the brake pedal depressed. A message "Press brake pedal for Auto Start" will appear on the LCD display. To activate auto start, depress the brake pedal.

## To deactivate the ISG system

- Press the ISG OFF button to deactivate the ISG system. Then, the ISG OFF button indicator illuminates, and the message "Auto Stop System Off" appears on the LCD display.
- Press the ISG OFF button again to reactivate the ISG system. Then, the ISG OFF button indicator turns OFF.

## ISG system malfunction

The ISG system may not operate:

When there is a malfunction with the ISG sensors or the ISG system.

The followings occur, when there is a malfunction with the ISG system:

- The auto stop indicator ((A)) will blink in yellow on the instrument cluster.
- The light on the ISG OFF button will illuminate.

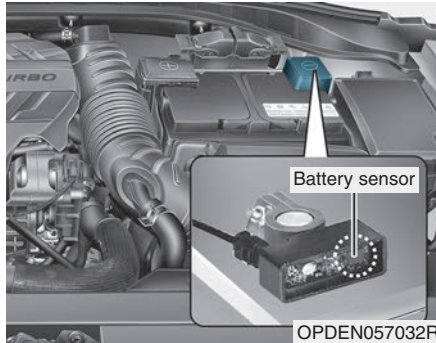
## **i** Information

- When you cannot turn OFF the ISG OFF button indicator by pressing the ISG OFF button, or when the malfunction with the ISG system persists, we recommend that you contact a HYUNDAI authorised repairer.
- You can turn off the ISG OFF button indicator by driving over 50 mph (80 km/h) for up to 2 hours with the fan speed below the 2nd position. If the ISG OFF button indicator remains ON, we recommend that you contact a HYUNDAI authorised repairer.

## WARNING

**When the engine is in auto stop mode, the engine may restart. Before leaving the vehicle or checking the engine compartment, stop the engine by placing the ignition switch to the LOCK/OFF position or removing the ignition key.**

### The battery sensor deactivation



The battery sensor is deactivated, when the battery is disconnected from the negative pole for maintenance purpose.

In this case, the ISG system is limitedly operated due to the battery sensor deactivation. Thus, the driver needs to take the following procedures to reactivate the battery sensor after disconnecting the battery.

### ***Prerequisites to reactivate the battery sensor***

Keep the engine in the OFF status for 4 hours, and attempt to restart the engine 3 to 4 times for the battery-sensor reactivation.

Pay extreme caution not to connect any accessories (for example, navigation and black box) to the vehicle with the engine in the OFF status. If not, the battery sensor may not be reactivated.

### **i Information**

**The ISG system may not operate in the following situations.**

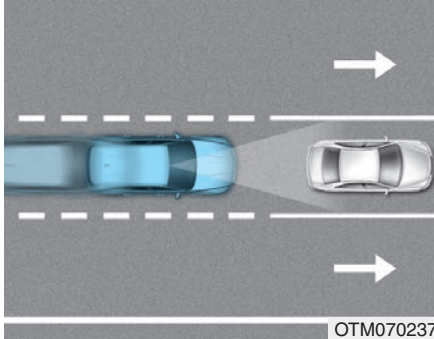
- There is a malfunction with the ISG system.
- The battery is weak.
- The brake vacuum pressure is low.

**In those cases, we recommend that you have the ISG system checked by a HYUNDAI authorised repairer.**

### **NOTICE**

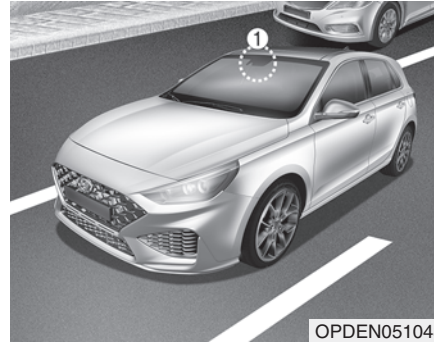
- Use only the genuine HYUNDAI ISG battery for replacement. If not, the ISG system may not normally operate.
- Do not recharge the ISG battery with a general battery charger. If not, it may damage or explode the ISG battery.
- Do not remove the battery cap. If not, the battery electrolyte, which is harmful to the human body, may leak out.

## FORWARD COLLISION-AVOIDANCE ASSIST (FCA) (FRONT VIEW CAMERA ONLY) (IF EQUIPPED)



Forward Collision-Avoidance Assist is designed to help detect and monitor the vehicle ahead or detect a pedestrian in the roadway and warn the driver that a collision is imminent with a warning message audible warning and application of emergency braking.

### Detecting sensor



[1] : Front view camera

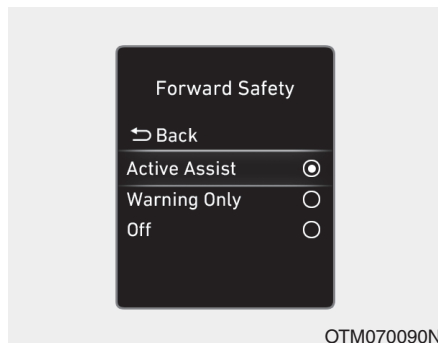
Refer to the picture above for the detailed location of the detecting sensor.

### CAUTION

- Take the following precautions to maintain optimal performance of the detecting sensor:
- NEVER disassemble the detecting sensor or sensor assembly, or cause any damage to.
- If the detecting sensor has been replaced or repaired, we recommend that you have your vehicle inspected by a HYUNDAI authorised repairer.
- NEVER install any accessories or stickers on the front windscreen, or tint the front windscreen.
- Exercise extreme caution to keep the front view camera dry.
- NEVER place any reflective objects (for example, white paper, mirror) over the instrument panel.

### Forward Collision-Avoidance Assist settings


#### Setting




#### Forward Safety

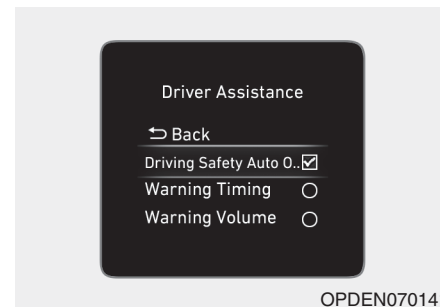
With the engine on, select or deselect 'Driver Assistance → Forward Safety' from the Settings menu to set whether to use each function.

- If 'Active Assist' is selected, Forward Collision-Avoidance Assist will warn the driver with a warning message and an audible warning depending on the collision risk levels. Braking assist will be applied depending on the collision risk levels.

- If 'Warning Only' is selected, Forward Collision-Avoidance Assist will warn the driver with a warning message and an audible warning depending on the collision risk levels. Braking will not be assisted. The driver must apply the brake pedal if necessary.
- If 'Off' is selected, Forward Collision-Avoidance Assist will turn off. The  warning light will illuminate on the cluster.

The driver can monitor Forward Collision-Avoidance Assist On/Off status from the Settings menu. If the  warning light remains On when Forward Collision-Avoidance Assist is On, we recommend that the vehicle be inspected by an authorised HYUNDAI dealer.

### Driving Safety Auto Off in N mode



With the engine on, select 'Driver Assistance → Driving Safety Off in N mode' from the Settings menu to set whether to use the function.

- If 'Driving Safety Off in N mode' is selected, Forward Collision-Avoidance Assist turns off automatically when N mode is selected.
- If 'Driving Safety Off in N mode' is deselected, Forward Collision-Avoidance Assist does not turn off automatically even when N mode is selected.


## WARNING

When the engine is restarted, Forward Collision-Avoidance Assist will always turn on. However, if 'Off' is selected after the engine is restarted, the driver should always be aware of the surroundings and drive safely.

## CAUTION

If 'Warning Only' is selected, braking is not assisted.

## Information

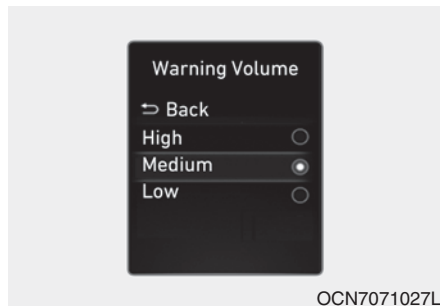
- Forward Collision-Avoidance Assist will turn off when ESC is turned off by pressing and holding the ESC OFF button. The  warning light will illuminate on the instrument cluster.
- Driving Safety system includes Forward Collision-Avoidance Assist, Lane Keeping Assist, Blind-Spot Collision-Avoidance Assist and Driver Attention Warning.
- You can turn on Forward Collision-Avoidance Assist by selecting 'Active Assist' or 'Warning Only' whilst automatically turned off due to N mode operation.
- If N mode is turned off, Forward Collision-Avoidance Assist returns to its last setting.
- For more details on N mode setup, refer to “Drive Mode Integrated Control System” section in chapter 5.



### Warning Timing

With the engine on, select 'Driver Assistance → Warning Timing' from the Settings menu to change the initial warning activation time for Forward Collision-Avoidance Assist.

When the vehicle is first delivered, Warning Timing is set to 'Normal'. If you change the Warning Timing, the Warning Timing of other Driver Assistance systems may change.



### Warning Volume

With the engine on, select 'Driver Assistance → Warning Volume' from the Settings menu to change the Warning Volume to 'High', 'Medium' or 'Low' for Forward Collision-Avoidance Assist.

If you change the Warning Volume, the Warning Volume of other Driver Assistance systems may change.

### CAUTION

- **The setting of the Warning Timing and Warning Volume applies to all functions of Forward Collision-Avoidance Assist.**
- **Even though, 'Normal' is selected for Warning Timing if the front vehicle suddenly stops, the warning may seem late.**
- **Select 'Late' for Warning Timing when traffic is light and when driving speed is slow.**

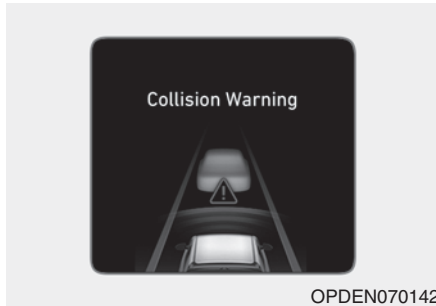
### Information

**If the engine is restarted, Warning Timing and Warning Volume will maintain the previous setting.**

## Forward Collision-Avoidance Assist Operation

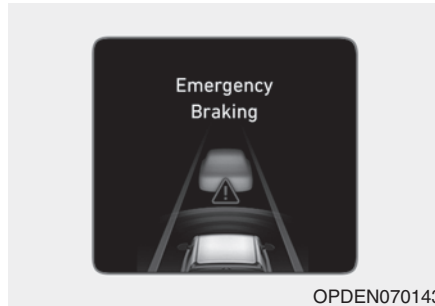
### **Warning and control**

The basic function of Forward Collision-Avoidance Assist is to warn and help control the vehicle depending on collision risk level: 'Collision Warning', 'Emergency Braking' and 'Stopping vehicle and ending brake control'.



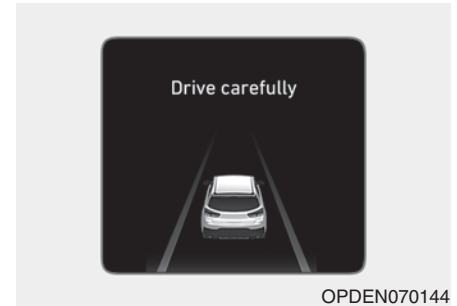
### Collision warning

- To warn the driver of a collision, the 'Collision Warning' warning message will appear on the instrument cluster and an audible warning will sound.
- If a vehicle is detected in front, the function will operate when your vehicle speed is between approximately 6-110 mph.
- If a pedestrian is detected in front, the function will operate when your vehicle speed is between approximately 6-37 mph.
- If 'Active Assist' is selected, braking may be assisted.



### Emergency braking

- To warn the driver that emergency braking will occur, the 'Emergency Braking' warning message will appear on the instrument cluster and an audible warning will sound.
- If a vehicle is detected in front, the function will operate when your vehicle speed is between approximately 6-37 mph.
- If a pedestrian is detected in front, the function will operate when your vehicle speed is between approximately 6-37 mph.
- In an emergency braking situation, braking is assisted with strong braking power by the function to help prevent collision with the vehicle or pedestrian ahead.




### Stopping vehicle and ending brake control

- When the vehicle is stopped due to emergency braking, the 'Drive carefully' warning message will appear on the instrument cluster.  
For your safety, the driver should press the brake pedal immediately and check the surroundings.
- Brake control will end after the vehicle is stopped by emergency braking for approximately 2 seconds.



 **WARNING**

Take the following precautions when using Forward Collision-Avoidance Assist:

- For your safety, change the Settings after parking the vehicle at a safe location.
- With 'Active Assist' or 'Warning Only' selected, when ESC is turned off by pressing and holding the ESC OFF button, Forward Collision-Avoidance Assist will turn off automatically. In this case, Forward Collision-Avoidance Assist cannot be set from the Settings menu and the  warning light will illuminate on the cluster which is normal. If ESC is turned on by pressing the ESC OFF button, Forward Collision-Avoidance Assist will maintain the previous setting.

(Continued)

(Continued)

- Forward Collision-Avoidance Assist does not operate in all situations and cannot avoid all collisions.
- The driver has the responsibility to control the vehicle. Do not solely depend on Forward Collision-Avoidance Assist. Rather, maintain a safe braking distance, and, if necessary, press the brake pedal to reduce driving speed or to stop the vehicle.
- Never deliberately operate Forward Collision-Avoidance Assist on people, animals, objects, etc. It may cause serious injury or death.
- Forward Collision-Avoidance Assist may not operate if the driver presses the brake pedal to avoid collision.

(Continued)

(Continued)

- Depending on the road and driving conditions, Forward Collision-Avoidance Assist may warn the driver late or may not warn the driver.
- During Forward Collision-Avoidance Assist operation the vehicle may stop suddenly injuring passengers and shifting loose objects. Ensure all occupants have their seat belt on and keep loose objects secured.
- If any other system's warning message is displayed or audible warning is generated, Forward Collision-Avoidance Assist warning message may not be displayed and audible warning may not be generated.

(Continued)

(Continued)

- You may not hear the warning sound of Forward Collision-Avoidance Assist if the surroundings are noisy.
- Forward Collision-Avoidance Assist may turn off or may not operate properly or may operate unnecessarily depending on the road conditions and the surroundings.

### **WARNING**

- Even if there is a problem with Forward Collision-Avoidance Assist, the vehicle's basic braking performance will operate properly.
- During emergency braking, braking control by Forward Collision-Avoidance Assist will automatically cancel when the driver excessively presses the accelerator pedal or sharply steers the vehicle.

### **CAUTION**

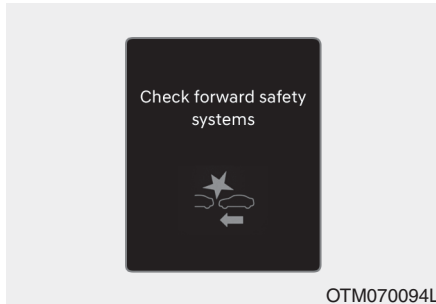
Depending on the condition of the vehicle and pedestrian in front and the surroundings, the speed range to operate Forward Collision-Avoidance Assist may reduce. Forward Collision-Avoidance Assist may only warn the driver, or it may not operate.



### **Information**

- In a situation where collision is imminent, braking may be assisted by Forward Collision-Avoidance Assist when braking is insufficient by the driver.
- The images and colours in the instrument cluster may differ depending on the cluster type or theme selected from the instrument cluster.

## Forward Collision-Avoidance Assist malfunction and limitations

### Forward Collision-Avoidance Assist malfunction





When Forward Collision-Avoidance Assist is not working properly, the 'Check forward safety systems' warning message will appear, and the  and  warning lights will illuminate on the cluster. We recommend that the vehicle be inspected by a HYUNDAI authorised repairer.

### Forward Collision-Avoidance Assist disabled



When the front windscreen where the front view camera is located or the sensor is covered with foreign material, such as snow or rain, it can reduce the detecting performance and temporarily limit or disable Forward Collision-Avoidance Assist.

If this occurs the 'Forward Safety system disabled. Camera obscured' warning message, and the  and  warning lights will illuminate on the instrument cluster.

Forward Collision-Avoidance Assist will operate properly when such snow, rain or foreign material is removed.

If Forward Collision-Avoidance Assist does not operate properly after obstruction (snow, rain, or foreign material) is removed, we recommend that the vehicle be inspected by a HYUNDAI authorised repairer.

### WARNING

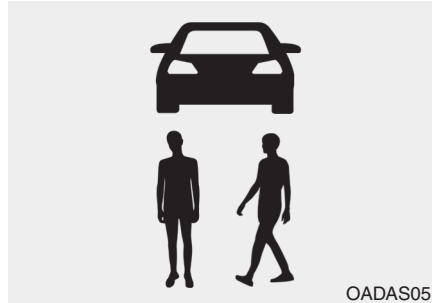
- **Even though the warning message or warning light does not appear on the cluster, Forward Collision-Avoidance Assist may not properly operate.**
- **Forward Collision-Avoidance Assist may not properly operate in an area (for example, open terrain), where objects are not detected after turning ON the engine.**

## **Limitations of Forward Collision-Avoidance Assist**

Forward Collision-Avoidance Assist may not operate properly, or it may operate unexpectedly under the following circumstances:

- The detecting sensor or the surroundings are contaminated or damaged
- The temperature around the front view camera is high or low due to surrounding environment
- The camera lens is contaminated due to tinted, filmed or coated windscreen, damaged glass, or stuck of foreign material (sticky, bug, etc.) on the glass
- Moisture is not removed or frozen on the windscreen
- Washer fluid is continuously sprayed, or the wiper is on
- Driving in heavy rain or snow, or thick fog
- The field of view of the front view camera is obstructed by sun glare
- Street light or light from an oncoming traffic is reflected on a wet road surface, such as a puddle on the road
- An object is placed on the instrument panel
- Your vehicle is being towed
- The surroundings are very bright
- The surroundings are very dark, such as in a tunnel, etc.
- The brightness changes suddenly, for example when entering or exiting a tunnel
- The brightness outside is low, and the headlamps are not on or are not bright
- Driving through steam, smoke or shadow
- Only part of the vehicle, pedestrian or cyclist is detected
- The vehicle in front is a bus, heavy truck, truck with an unusually shaped cargo, trailer, etc.
- The vehicle in front has no tail lights, tail lights are located unusually, etc.
- The rear of the front vehicle is small or the vehicle does not look normal, such as when the vehicle is tilted, overturned, or the side of the vehicle is visible, etc.
- The front vehicle's ground clearance is low or high
- A vehicle or pedestrian suddenly cuts in front
- The vehicle in front is detected late
- The vehicle in front is suddenly blocked by an obstacle
- The vehicle in front suddenly changes lane or suddenly reduces speed
- The vehicle in front is bent out of shape
- The front vehicle's speed is fast or slow
- The vehicle in front steers in the opposite direction of your vehicle to avoid a collision
- With a vehicle in front, your vehicle changes lane at low speed
- The vehicle in front is covered with snow
- You are departing or returning to the lane
- Unstable driving

- You are on a roundabout and the vehicle in front is not detected
- You are continuously driving in a circle
- The vehicle in front has an unusual shape
- The vehicle in front is driving uphill or downhill
- The pedestrian is not fully detected, for example, if the pedestrian is leaning over or is not fully walking upright
- The pedestrian is wearing clothing or equipment that makes it difficult to detect



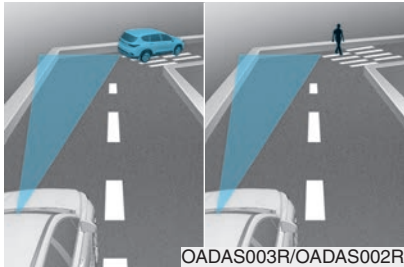
The illustration above shows the image the front view camera is capable of detecting as a vehicle and pedestrian.

- The pedestrian in front is moving very quickly
- The pedestrian in front is short or is posing a low posture
- The pedestrian in front has impaired mobility
- The pedestrian in front is moving intersected with the driving direction
- There is a group of pedestrians or a large crowd in front
- The pedestrian is wearing clothing that easily blends into the background, making it difficult to detect

- The pedestrian is difficult to distinguish from the similarly shaped structure in the surroundings
- You are driving by a pedestrian, traffic sign, structure, etc., near the intersection
- Driving in a parking lot
- Driving through a tollgate, construction area, unpaved road, partial paved road, uneven road, speed bumps, etc.
- Driving on an incline road, curved road, etc.
- Driving on a road with trees or streetlights
- The adverse road conditions cause excessive vehicle vibrations whilst driving
- Your vehicle height is low or high due to heavy loads, abnormal tyre pressure, etc.
- Driving on a narrow road where trees or grass or overgrown
- There is interference from electromagnetic waves such as driving in an area with strong radio waves or electrical noise

## ⚠ WARNING

### • Driving on a curved road

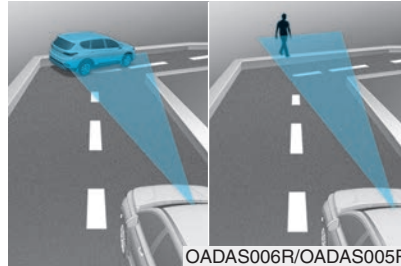


Forward Collision-Avoidance Assist may not detect other vehicles or pedestrians in front of you when driving on curved roads adversely affecting the performance of the sensors. This may result in no warning or braking assist when necessary.

When driving on a curved road, you must maintain a safe braking distance, and if necessary, steer the vehicle and press the brake pedal to reduce your driving speed in order to maintain a safe distance.

(Continued)

### (Continued)



Forward Collision-Avoidance Assist may detect a vehicle or pedestrian in the next lane or outside the lane when driving on a curved road.

If this occurs, Forward Collision-Avoidance Assist may unnecessarily warn the driver and control the brake. Always check the traffic conditions around the vehicle.

(Continued)

### (Continued)

### • Driving on an inclined road



Forward Collision-Avoidance Assist may not detect other vehicles or pedestrians in front of you whilst driving uphill or downhill adversely affecting the performance of the sensors.

(Continued)

**(Continued)**

This may result in unnecessary warning or braking assist, or no warning or braking assist when necessary.

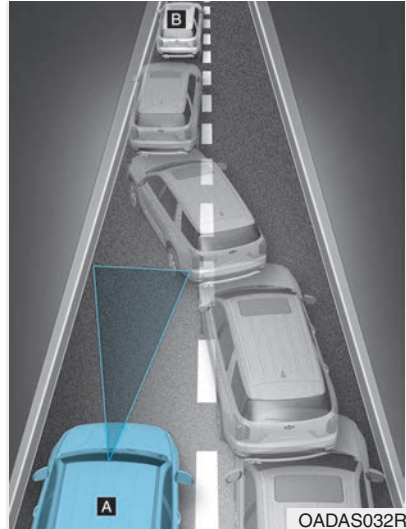
Also, vehicle speed may rapidly decrease when a vehicle or pedestrian ahead is suddenly detected.

Always have your eyes on the road whilst driving uphill or downhill and if necessary, steer the vehicle and press the brake pedal to reduce your driving speed in order to maintain a safe distance.

**(Continued)**

**(Continued)**

- Changing lanes



[A] : Your vehicle, [B] : Lane changing vehicle

When a vehicle moves into your lane from an adjacent lane, it cannot be detected by the sensor until it is in the sensor's detection range.

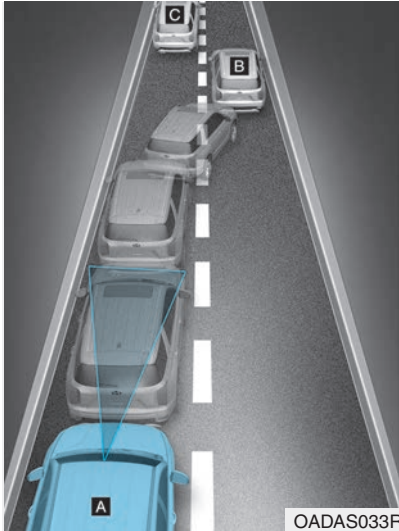
**(Continued)**

**(Continued)**

Forward Collision-Avoidance Assist may not immediately detect the vehicle when the vehicle changes lanes abruptly. In this case, you must maintain a safe braking distance, and if necessary, steer the vehicle and press the brake pedal to reduce your driving speed in order to maintain a safe distance.

**(Continued)**

(Continued)



[A] : Your vehicle, [B] : Lane changing vehicle,  
[C] : Same lane vehicle

**When a vehicle in front of you merges out of the lane, Forward Collision-Avoidance Assist may not immediately detect the vehicle that is now in front of you.**

(Continued)

(Continued)

**In this case, you must maintain a safe braking distance, and if necessary, steer the vehicle and press the brake pedal to reduce your driving speed in order to maintain a safe distance.**

(Continued)

(Continued)

- Detecting vehicle



**If the vehicle in front of you has cargo that extends rearward from the cab, or when the vehicle in front of you has higher ground clearance, additional special attention is required.**

(Continued)



(Continued)

Forward Collision-Avoidance Assist may not be able to detect the cargo extending from the vehicle. In these instances, you must maintain a safe braking distance from the rearmost object, and if necessary, steer the vehicle and press the brake pedal to reduce your driving speed in order to maintain distance.

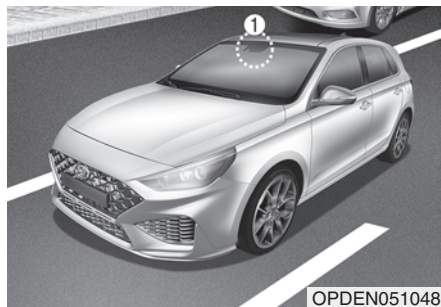
 **WARNING**

- When you are towing a trailer or another vehicle, we recommend that Forward Collision-Avoidance Assist is turned off for safety reasons.
- Forward Collision-Avoidance Assist may operate if objects that are similar in shape or characteristics to vehicles and pedestrians are detected.
- Forward Collision-Avoidance Assist does not operate for bicycles, motorcycles, or smaller wheeled objects, such as luggage bags, shopping carts, or strollers.
- Forward Collision-Avoidance Assist may not operate properly if interfered by strong electromagnetic waves.
- Forward Collision-Avoidance Assist may not operate for 15 seconds after the vehicle is started, or the front view camera is initialised.

## LANE KEEPING ASSIST (LKA)

Lane Keeping Assist is designed to help detect lane markings (or road edges) whilst driving over a certain speed. Lane Keeping Assist will warn the driver if the vehicle leaves the lane without using the turn signal, or will automatically assist the driver's steering to help prevent the vehicle from departing the lane.

### Detecting sensor



[1] : Front view camera

The front view camera is used as a detecting sensor to detect lane markings (or road edges).

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

### CAUTION

**For more details on the precautions of the front view camera, refer to “Forward Collision-Avoidance Assist (FCA)” section in this chapter.**


## Lane Keeping Assist settings Setting



### Lane Safety

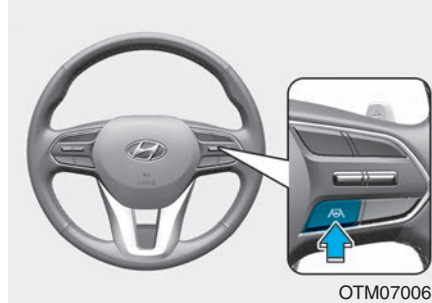
With the engine on, select or deselect 'Driver Assistance → Lane Safety' from the Settings menu to set whether to use each function.

- If 'Assist' is selected, Lane Keeping Assist will automatically assist the driver's steering when lane departure is detected to help prevent the vehicle from moving out of its lane.


- If 'Warning Only' is selected, Lane Keeping Assist will warn the driver with an audible warning when lane departure is detected. The driver must steer the vehicle.
- If 'Off' is selected, Lane Keeping Assist will turn off. The  indicator light will turn off on the instrument cluster.

### WARNING

- If 'Warning Only' is selected, steering is not assisted.
- Lane Keeping Assist does not control the steering wheel when the vehicle is driven in the middle of the lane.
- The driver should always be aware of the surroundings and steer the vehicle if 'Off' is selected.



### Turning Lane Keeping Assist On/Off (Lane Driving Assist button)

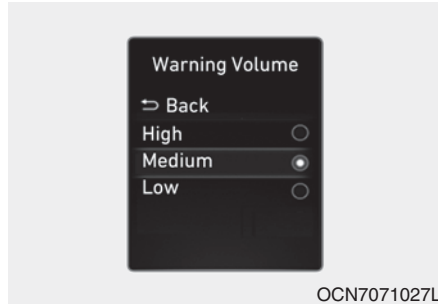
With the engine on, press and hold the Lane Driving Assist button located on the steering wheel to turn on Lane Keeping Assist. The white  indicator light will illuminate on the cluster.

Press and hold the button again to turn off the function.

If the engine is restarted, Lane Keeping Assist will maintain the previous setting.

### CAUTION

When the Lane Driving Assist button is pressed shortly, Lane Following Assist will turn on and off.

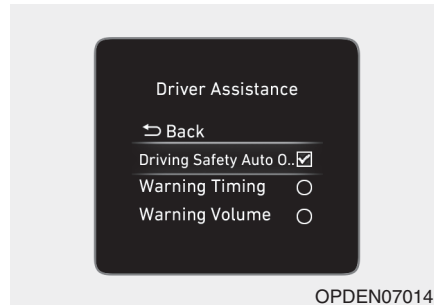


### Warning Volume

With the engine on, select 'Driver Assistance → Warning Volume' from the Settings menu to change the Warning Volume to 'High', 'Medium' or 'Low' for Lane Keeping Assist.

If you change the Warning Volume, the Warning Volume of other Driver Assistance systems may be change.

### Driving Safety Auto Off in N mode



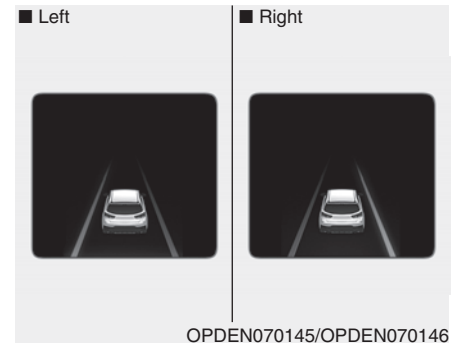
With the engine on, select 'Driver Assistance → Driving Safety Off in N mode' from the Settings menu to set whether to use the function.

- If 'Driving Safety Off in N mode' is selected, Forward Collision-Avoidance Assist turns off automatically when N mode is selected.
- If 'Driving Safety Off in N mode' is deselected, Forward Collision-Avoidance Assist does not turn off automatically even when N mode is selected.


### Lane Keeping Assist operation

#### Warning and control

Lane Keeping Assist will warn and help control the vehicle with Lane Departure Warning and Lane Keeping Assist.




#### Lane Departure Warning

- To warn the driver that the vehicle is departing from the projected lane in front, the green  indicator light will blink on the instrument cluster, the lane line will blink on the instrument cluster depending on which direction the vehicle is veering, and an audible warning will sound.

- Lane Keeping Assist will operate when your vehicle speed is between approximately 40-120 mph.

### Lane Keeping Assist

- To warn the driver that the vehicle is departing from the projected lane in front, the green  indicator light will blink on the instrument cluster, and the steering wheel will make adjustments to keep the vehicle inside the lane.
- Lane Keeping Assist will operate when your vehicle speed is between approximately 40-120 mph.




### Hands-off warning

If the driver takes their hands off the steering wheel for several seconds, the 'Keep hands on steering wheel' warning message will appear on the instrument cluster, and an audible warning will sound in stages.

### WARNING

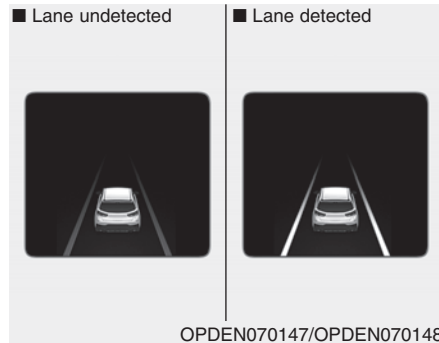
- The steering wheel may not be assisted if the steering wheel is held very tight or the steering wheel is steered over a certain degree.
- Lane Keeping Assist does not operate at all times. It is the responsibility of the driver to safely steer the vehicle and maintain the vehicle in its lane.
- The hands-off warning message may appear late depending on road conditions. Always have your hands on the steering wheel whilst driving.
- If the steering wheel is held very lightly, the hands-off warning message may appear because Lane Keeping Assist may not recognise that the driver has their hands on the steering wheel.
- If you attach objects to the steering wheel, the hands-off warning may not work properly.

## **i** Information

- You may change settings from the instrument cluster (User Settings) or infotainment system (Vehicle Settings), whichever option that is provided with your vehicle. For more details, see "User Settings" section in chapter 3, or "Vehicle Settings" section in supplied Infotainment Manual.
- When lane markings (or road edges) are detected, the lane lines on the cluster will change from grey to white and the green  indicator light will illuminate.

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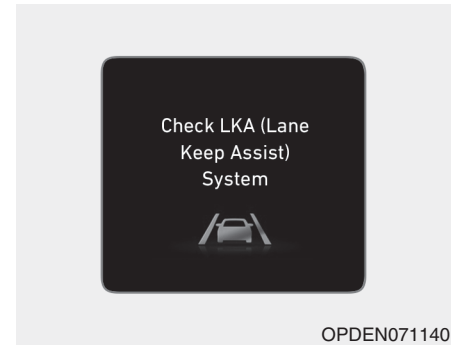
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- Even though the steering is assisted by Lane Keeping Assist, the driver may control the steering wheel.
- The steering wheel may feel heavier or lighter when the steering wheel is assisted by Lane Keeping Assist than when it is not.
- The images and colours in the instrument cluster may differ depending on the cluster type or theme selected from the instrument cluster.

## Lane Keeping Assist malfunction and limitations

### **Lane Keeping Assist malfunction**



When Lane Keeping Assist is not working properly, the 'Check LKA (Lane Keeping Assist) system' warning message will appear and the yellow  indicator light will illuminate on the instrument cluster. If this occurs, we recommend that the vehicle be inspected by a HYUNDAI authorised repairer.

### ***Limitations of Lane Keeping Assist***

Lane Keeping Assist may not operate properly or may operate unexpectedly under the following circumstances:

- The lane is contaminated or difficult to detect because:
  - The lane markings (or road edge) are covered with rain, snow, dirt, oil, etc.
  - The colour of the lane marking (or road edge) is not distinguishable from the road
  - There are markings (or road edges) on the road near the lane or the markings (or road edges) on the road look similar to the lane markings (or road edge)
  - The lane marking (or road edge) is indistinct or damaged
  - Shadows are on the lane marking (or road edge) from a median strip, trees, guardrail, noise barriers, etc.
- There are more than two lane markings (or road edges) on the road
- The lane number increases or decreases, or the lane markings (or road edges) are crossing
- The lane markings (or road edges) are complicated or a structure substitutes for the lines, such as a construction area
- There are road markings, such as zigzag lanes, crosswalk markings and road signs
- The lane suddenly disappears, such as at an intersection
- The lane (or road width) is very wide or narrow
- There is a road edge without a lane
- There is a boundary structure in the roadway, such as a tollgate, sidewalk, kerb, etc.
- The distance to the front vehicle is extremely short or the vehicle in front is covering the lane marking (or road edge)

### ***i* Information**

**For more details on the limitations of the front view camera, refer to “Forward Collision-Avoidance Assist (FCA)” section this chapter.**

## WARNING

Take the following precautions when using Lane Keeping Assist:

- The driver has the responsibility to safely drive and control the vehicle. Do not solely rely on Lane Keeping Assist and drive dangerously.
- The operation of Lane Keeping Assist can be cancelled or not work properly depending on road conditions and surroundings. Always be cautious whilst driving.
- Refer to “Limitations of Lane Keeping Assist” if the lane is not detected properly.
- When you are towing a trailer or another vehicle, we recommend that Lane Keeping Assist is turned off for safety reasons.

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- If the vehicle is driven at high speed, the steering wheel will not be controlled. The driver must always follow the speed limit when using Lane Keeping Assist.
- If any other system’s warning message is displayed or audible warning is generated, Lane Keeping Assist warning message may not be displayed and audible warning may not be generated.
- You may not hear the warning sound of Lane Keeping Assist if the surroundings are noisy.
- If you attach objects to the steering wheel, steering may not be assisted properly.
- Lane Keeping Assist may not operate for 15 seconds after the vehicle is started, or the front view camera is initialised.

(Continued)

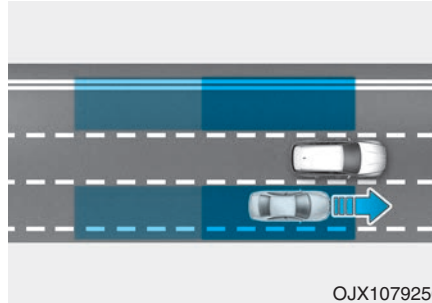
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- Lane Keeping Assist will not operate when:
  - The turn signal or hazard warning flasher is turned on
  - The vehicle is not driven in the centre of the lane when Lane Keeping Assist is turned on or right after changing a lane
  - ESC (Electronic Stability Control) or VSM (Vehicle Stability Management) is activated
  - The vehicle is driven on a sharp curve
  - Vehicle speed is below 55 km/h or above 210 km/h
  - The vehicle makes sudden lane changes
  - The vehicle brakes suddenly



## BLIND-SPOT COLLISION WARNING (BCW) (IF EQUIPPED)

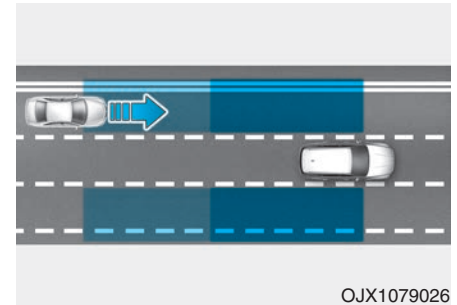
Blind-Spot Collision Warning is designed to help detect and monitor approaching vehicles in the driver's blind spot area and warn the driver of a possible collision with a warning message and audible warning.



Blind-Spot Collision Warning helps detect and informs the driver that a vehicle is in the blind spot.

### CAUTION

The detecting range may vary depending on the speed of your vehicle. Even if there is a vehicle in the blind spot area, Blind-Spot Collision Warning may not warn you when you pass by at high speeds.



Blind-Spot Collision Warning helps detect and informs the driver that a vehicle is approaching at high speed from the blind spot area.

### CAUTION

Warning timing may vary depending on the speed of the vehicle approaching at high speed.

## Detecting sensor



[1] : Rear corner radar

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

### CAUTION

Take the following precautions to maintain optimal performance of the detecting sensor:

- Never disassemble the rear corner radar or radar assembly, or cause any damage to.
- If the rear corner radar or near the radar has been damaged or impacted in any way, even though the warning message does not appear on the cluster, Blind-Spot Collision Warning may not operate properly. We recommend that the vehicle be inspected by a HYUNDAI authorised repairer.
- If the rear corner radars have been replaced or repaired, we recommend that the vehicle be inspected by a HYUNDAI authorised repairer.
- Use only genuine parts to repair the rear bumper where the rear corner radar is located.

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- Do not apply license plate frame or objects, such as a bumper sticker, film or a bumper guard near the rear corner radar.
- Blind-Spot Collision Warning may not work properly if the bumper have been replaced, or the surroundings of the rear corner radar has been damaged or paint has been applied.
- If a trailer, carrier, etc., is installed, it may adversely affect the performance of the rear corner radar or Blind-Spot Collision Warning may not operate.

### Blind-Spot Collision Warning settings

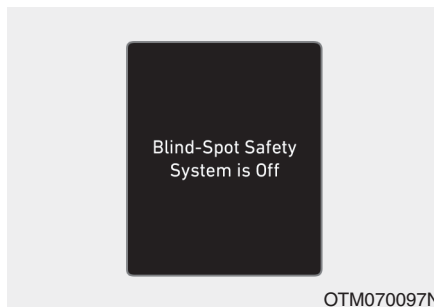
#### Setting



#### Blind-Spot Safety

With the engine on, select or deselect 'Driver Assistance → Blind-Spot Safety' from the Settings menu to set whether to use each function.

- If 'Warning Only' is selected, Blind-Spot Collision Warning will warn the driver with a warning message and an audible warning depending on the collision risk levels. Braking will not be assisted.
- If 'Off' is selected, Blind-Spot Collision Warning will turn off.

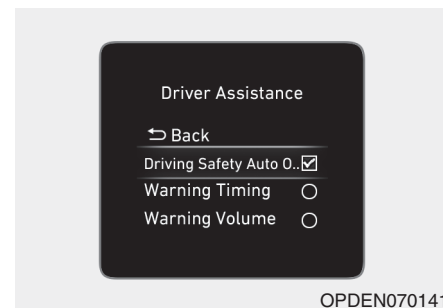


When the engine is restarted with the system off, the 'Blind-Spot Safety System is Off' message will appear on the cluster.

If you change the setting from 'Off' to 'Warning Only', the warning light on the outside rearview mirror will blink for three seconds.

In addition, if the engine is turned on, when Blind-Spot Collision Warning is set to 'Warning Only', the warning light on the outside rearview mirror will blink for three seconds.

### Driving Safety Auto Off in N mode



You can select 'Driving Safety Auto Off in N mode' from 'Drive Assistance' in the set up menu when the engine is ON.

- If you select 'Driving Safety Auto Off in N mode', it is connected with N mode so that Blind-Spot Collision Warning turns off automatically.
- If you deselect 'Driving Safety Auto Off in N mode', Blind-Spot Collision Warning does not turn off automatically even when N mode is working.

## WARNING

- If 'Warning Only' is selected, braking is not assisted.
- If 'Off' is selected, the driver should always be aware of the surroundings and drive safely.

### Information

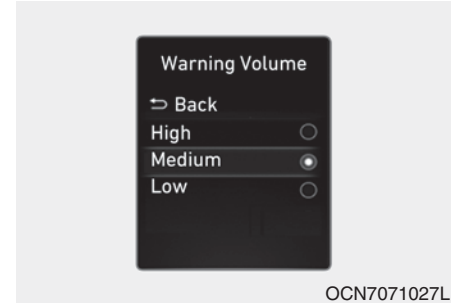
If the engine is restarted, Blind-Spot Collision Warning will maintain the last setting.



### Warning Timing

With the engine on, select 'Driver Assistance → Warning Timing' from the Settings menu to change the initial warning activation time for Blind-Spot Collision Warning.

When the vehicle is first delivered, Warning Timing is set to 'Normal'. If you change the Warning Timing, the Warning Timing of other Driver Assistance systems may change.



### Warning Volume

With the engine on, select 'Driver Assistance → Warning Volume' from the Settings menu to change the Warning Volume to 'High', 'Medium' or 'Low' for Blind-Spot Collision Warning.

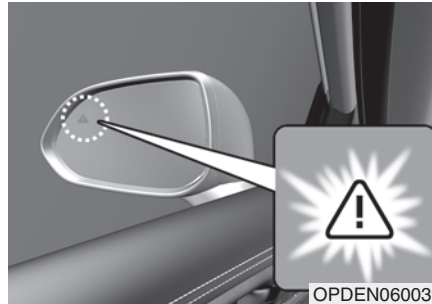
If you change the Warning Volume, the Warning Volume of other Driver Assistance systems may change.

 **CAUTION**

- The setting of the Warning Timing and Warning Volume applies to all functions of the Blind-Spot Collision Warning.
- Even though 'Normal' is selected for Warning Timing, if a vehicle approaches at high speed, the warning may seem late.
- Select 'Late' for Warning Timing when traffic is light and when driving speed is slow.

### Blind-Spot Collision Warning operation

#### *Blind-Spot Collision Warning warning*



#### Vehicle detection

To warn the driver a vehicle is detected, the warning light on the outside rearview mirror will illuminate.

The system will operate when your vehicle speed is above 12 mph (20 km/h) and the speed of the vehicle in the blind spot area is above 7 mph (10 km/h).

#### Collision warning

- Collision warning will operate when the turn signal is turned on in the direction of the detected vehicle.
- To warn the driver of a collision, the warning light on the outside rearview mirror will blink. At the same time, an audible warning will sound.
- When the turn signal is turned off or you move away from the lane, the collision warning will be cancelled and Blind-Spot Collision Warning will return to vehicle detection state.

## WARNING

- The detecting range of the rear corner radar is determined by the standard road width, therefore, on a narrow road, Blind-Spot Collision Warning may detect other vehicles two lanes over and warn you. In contrast, on a wide road, Blind-Spot Collision Warning may not be able to detect a vehicle driving in the next lane and may not warn you.
- When the hazard warning light is on, the collision warning by the turn signal will not operate.

## Information

If the driver's seat is on the left side, the collision warning may occur when you turn left. Maintain a proper distance with the vehicles in the left lane. If the driver's seat is on the right side, the collision warning may occur when you turn right. Maintain a proper distance with the vehicles in the right lane.

## WARNING

Take the following precautions when using Blind-Spot Collision Warning:

- For your safety, only change the Settings after parking the vehicle at a safe location.
- If any other system's warning message is displayed or audible warning is generated, Blind-Spot Collision Warning's warning message may not be displayed and audible warning may not be generated.
- You may not hear the warning sound of Blind-Spot Collision Warning if the surrounding is noisy.

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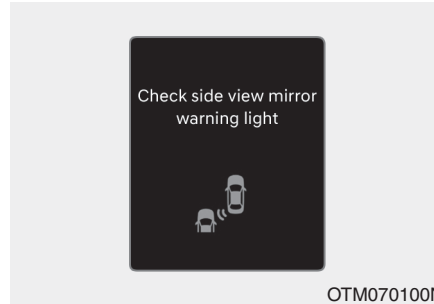
- Blind-Spot Collision Warning may warn the driver late or may not warn the driver depending on the road and driving conditions.
- Driver should maintain control of the vehicle at all times. Do not depend on Blind-Spot Collision Warning. Maintain a safe braking distance, and if necessary, depress the brake pedal to reduce driving speed or to stop the vehicle.


## Blind-Spot Collision Warning malfunction and limitations

### **Blind-Spot Collision Warning malfunction**



When Blind-Spot Collision Warning is not working properly, the 'Check Blind-Spot Safety system(s)' warning message will appear on the cluster for several seconds, and the master  warning light will illuminate on the cluster. If this occurs, we recommend that the vehicle be inspected by an authorised HYUNDAI dealer.



When the outside rearview mirror warning light is not working properly, the 'Check side view mirror warning light' warning message will appear on the cluster for several seconds, and the master  warning light will illuminate on the cluster. If this occurs, we recommend that the vehicle be inspected by an authorised HYUNDAI dealer.

### **Blind-Spot Collision Warning disabled**



When the rear bumper around the rear corner radar or sensor is covered with foreign material, such as snow or rain, or installing a trailer or carrier, it can reduce the detecting performance and temporarily limit or disable Blind-Spot Collision Warning. If this occurs, the 'Blind-Spot Collision Warning disabled. Radar blocked' warning message will appear on the cluster.

Blind-Spot Collision Warning will operate properly when such foreign material or trailer, etc., is removed, and then the engine is restarted.

If Blind-Spot Collision Warning does not operate properly after it is removed, we recommend that the system be inspected by a HYUNDAI authorised repairer.

### WARNING

- **Even though the warning message does not appear on the cluster, Blind-Spot Collision Warning may not properly operate.**
- **Blind-Spot Collision Warning may not properly operate in an area (for example, open terrain), where any objects are not detected right after the engine is turned on, or when the detecting sensor is blocked with foreign material right after the engine is turned on.**

### CAUTION

**Turn off Blind-Spot Collision Warning to install or remove a trailer, carrier, or another attachment. Turn on Blind-Spot Collision Warning when finished.**

### ***Limitations of Blind-Spot Collision Warning***

Blind-Spot Safety system may not operate properly, or it may operate unexpectedly under the following circumstances:

- There is inclement weather, such as heavy snow, heavy rain, etc.
- The rear corner radar is covered with snow, rain, dirt, etc.
- The temperature around the rear corner radar is high or low
- Driving on a highway (or motorway) ramp
- The road pavement (or the peripheral ground) abnormally contains metallic components (for example, possibly due to subway construction)
- There is a fixed object near the vehicle, such as sound barriers, guardrails, central dividers, entry barriers, street lamps, signs, tunnels, walls, etc. (including double structures)
- Driving in vast areas where there are few vehicles or structures (for example, desert, meadow, suburb, etc.)



- Driving through a narrow road where trees or grass are overgrown
- Driving on a wet road surface, such as a puddle on the road
- The other vehicle drives very close behind your vehicle, or the other vehicle passes by your vehicle in close proximity
- The speed of the other vehicle is very fast that it passes by your vehicle in a short time
- Your vehicle passes by the other vehicle
- Your vehicle changes lane
- Your vehicle has started at the same time as the vehicle next to you and has accelerated
- The vehicle in the next lane moves two lanes away from you, or when the vehicle two lanes away moves to the next lane from you
- A trailer or carrier is installed around the rear corner radar


- The bumper around the rear corner radar is covered with objects, such as a bumper sticker, bumper guard, bike rack, etc.
- The bumper around the rear corner radar is impacted, damaged or the radar is out of position
- Your vehicle height is low or high due to heavy loads, abnormal tyre pressure, etc.

Blind-Spot Collision Warning may not operate properly, or it may operate unexpectedly when the following objects are detected:

- A motorcycle or bicycle is detected
- A vehicle such as a flat trailer is detected
- A big vehicle such as a bus or truck is detected
- A moving obstacle such as a pedestrian, animal, shopping cart or a baby stroller is detected
- A vehicle with low height such as a sports car is detected

**⚠ WARNING**

- **Driving on a curved road**



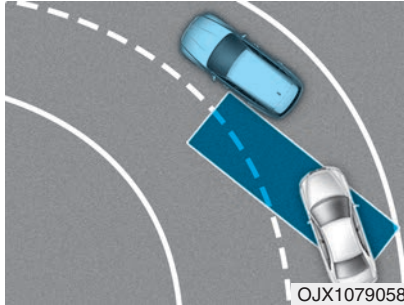
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**Blind-Spot Collision Warning may not operate properly when driving on a curved road. The function may not detect the vehicle in the next lane.**

**Always pay attention to road and driving conditions whilst driving.**

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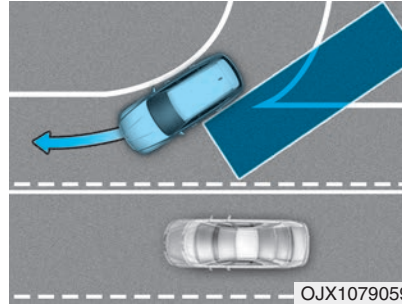
**Blind-Spot Collision Warning may not operate properly when driving on the curved road. The function may recognise the vehicle in the same lane.**

**Always pay attention to road and driving conditions whilst driving.**

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- **Driving where the road is merging/dividing**



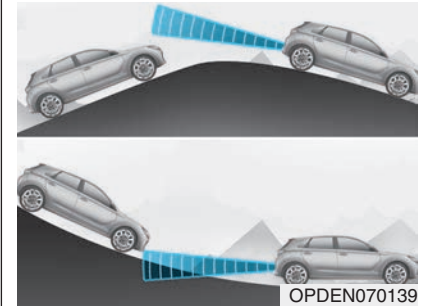
**Blind-Spot Collision Warning may not operate properly when driving where the road merges or divides. The function may not detect the vehicle in the next lane.**

**Always pay attention to road and driving conditions whilst driving.**

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- **Driving on an inclined road**



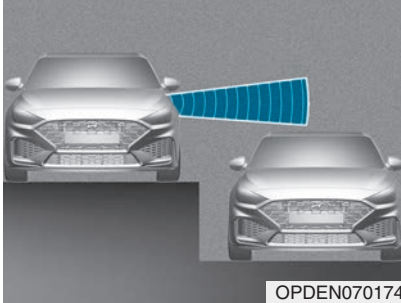
**Blind-Spot Collision Warning may not operate properly when driving on a slope. The function may not detect the vehicle in the next lane or may incorrectly detect the ground or structure.**

**Always pay attention to road and driving conditions whilst driving.**

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- Driving where the heights of the lanes are different



Blind-Spot Collision Warning may not operate properly when driving where the heights of the lanes are different. The function may not detect the vehicle on a road with different lane heights (underpass joining section, grade separated intersections, etc.).

Always pay attention to road and driving conditions whilst driving.

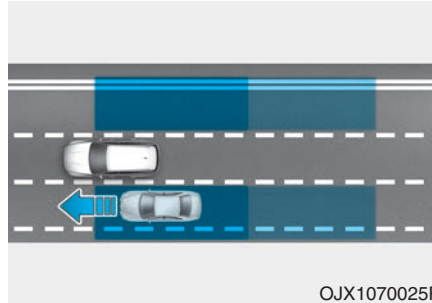
**⚠ WARNING**

- When you are towing a trailer or another vehicle, make sure that you turn off Blind-Spot Collision Warning.
- Blind-Spot Collision Warning may not operate normally if interfered by strong electromagnetic waves.
- Blind-Spot Collision Warning may not operate for 3 seconds after the vehicle is started, or the rear corner radars are initialized.

## BLIND-SPOT COLLISION-AVOIDANCE ASSIST (BCA) (IF EQUIPPED)

Blind-Spot Collision-Avoidance Assist is designed to help detect and monitor approaching vehicles in the driver's blind spot area and warn the driver of a possible collision with a warning message and audible warning.

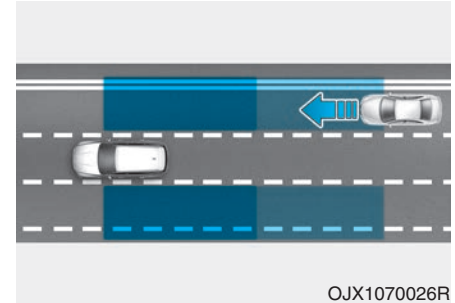
In addition, if there is a risk of collision when changing lanes or driving forward out of a parking space, Blind-Spot Collision-Avoidance Assist can help avoid a collision by applying the brake.



Blind-Spot Collision-Avoidance Assist helps detect and informs the driver that a vehicle is in the blind spot.

### CAUTION

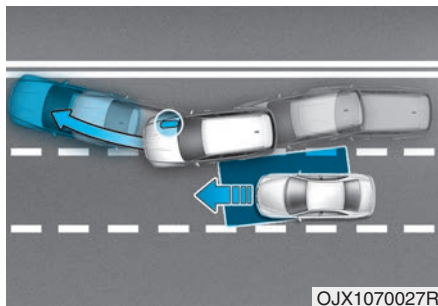
The detecting range may vary depending on the speed of your vehicle. Even if there is a vehicle in the blind spot area, the system may not warn you when you pass by at high speeds.



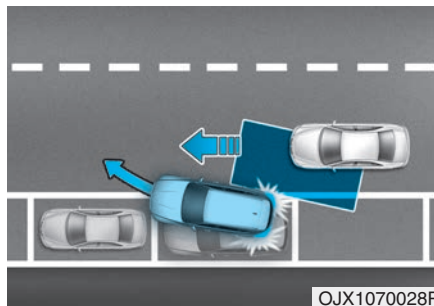
Blind-Spot Collision-Avoidance Assist helps detect and informs the driver that a vehicle is approaching at high speed from the blind spot area.

### CAUTION

Warning timing may vary depending on the speed of the vehicle approaching at high speed.

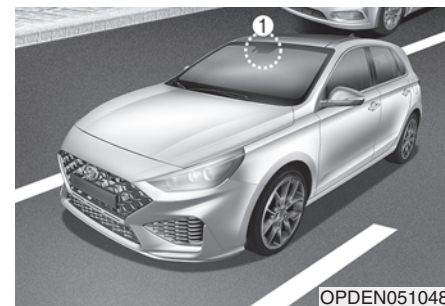


When changing lanes by detecting the lane ahead, if Blind-Spot Collision-Avoidance Assist judges that there is a collision risk with an approaching vehicle in the blind spot, it can help avoid a collision by applying the brake.



When you are driving forward out of a parking space, if Blind-Spot Collision-Avoidance Assist judges that there is a collision risk with an approaching vehicle in the blind spot, it can help avoid a collision by applying the brake.

### Detecting sensor



[1] : Front view camera, [2] : Rear corner radar

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

## CAUTION

Take the following precautions to maintain optimal performance of the detecting sensor:

- Never disassemble the rear corner radar or radar assembly, or cause any damage to it.
- If the rear corner radar or near the radar has been damaged or impacted in any way, even though the warning message does not appear on the instrument cluster, Blind-Spot Collision-Avoidance Assist may not operate properly. We recommend that the vehicle be inspected by a HYUNDAI authorised repairer.
- If the rear corner radars have been replaced or repaired, we recommend that the vehicle be inspected by a HYUNDAI authorised repairer.
- Use only genuine parts to repair the rear bumper where the rear corner radar is located.

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- Do not apply licence plate frame or objects, such as a bumper sticker, film or a bumper guard near the rear corner radar.
- Blind-Spot Collision-Avoidance Assist may not work properly if the bumper have been replaced, or the surroundings of the rear corner radar have been damaged or paint has been applied.
- If a trailer, carrier, etc., is installed, it may adversely affect the performance of the rear corner radar or Blind-Spot Collision-Avoidance Assist may not operate.
- For more details on the precautions of the front view camera, refer to “Forward Collision-Avoidance Assist (FCA)” section in this chapter.

## Blind-Spot Collision-Avoidance Assist settings

### Setting



### Blind-Spot Safety

With the engine on, select or deselect ‘Driver Assistance → Blind-Spot Safety’ from the Settings menu to set whether to use each function.

- If ‘Active Assist’ is selected, Blind-Spot Collision-Avoidance Assist will warn the driver with a warning message, an audible warning and braking assist will be applied depending on the collision risk levels.

- If 'Warning Only' is selected, Blind-Spot Collision-Avoidance Assist will warn the driver with a warning message and an audible warning depending on the collision risk levels. Braking will not be assisted.
- If 'Off' is selected, Blind-Spot Collision-Avoidance Assist will turn off.



When the engine is restarted with the system off, the 'Blind-Spot Safety System is Off' message will appear on the cluster.

If you change the setting from 'Off' to 'Active Assist' or 'Warning Only', the warning light on the outside rearview mirror will blink for three seconds.

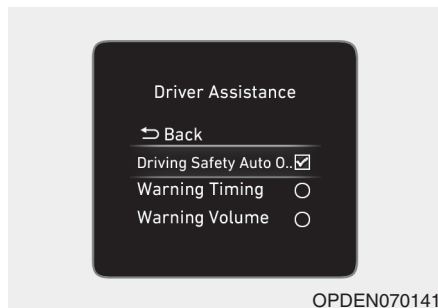
In addition, if the engine is turned on, when Blind-Spot Collision-Avoidance Assist is set to 'Active Assist' or 'Warning Only', the warning light on the outside rearview mirror will blink for three seconds.

### WARNING

- If 'Warning Only' is selected, braking is not assisted.
- If 'Off' is selected, the driver should always be aware of the surroundings and drive safely.

### Information

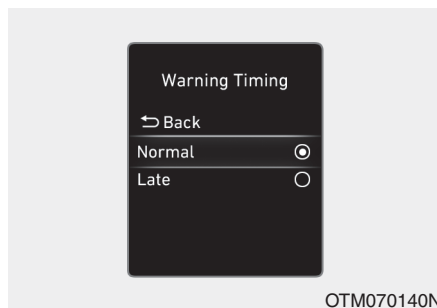
If the engine is restarted, Blind-Spot Collision-Avoidance Assist will maintain the previous setting.



### Driving Safety Auto Off in N mode

You can select 'Driving Safety Auto Off in N mode' from 'Driver Assistance' in the set up menu when the engine is ON.

- If you select 'Driving Safety Auto Off in N mode', it is connected with N mode so that Blind-Spot Collision-Avoidance Assist turns off automatically.
- If you deselect 'Driving Safety Auto Off in N mode', Blind-Spot Collision-Avoidance Assist does not turn off automatically even when N mode is working.



### Warning Timing

With the engine on, select 'Driver Assistance → Warning Timing' from the Settings menu to change the initial warning activation time for Blind-Spot Collision-Avoidance Assist.

When the vehicle is first delivered, Warning Timing is set to 'Normal'. If you change the Warning Timing, the Warning Timing of other Driver Assistance systems may change.



### Warning Volume

With the engine on, select 'Driver Assistance → Warning Volume' from the Settings menu to change the Warning Volume to 'High', 'Medium' or 'Low' for Blind-Spot Collision-Avoidance Assist.

If you change the Warning Volume, the Warning Volume of other Driver Assistance systems may change.

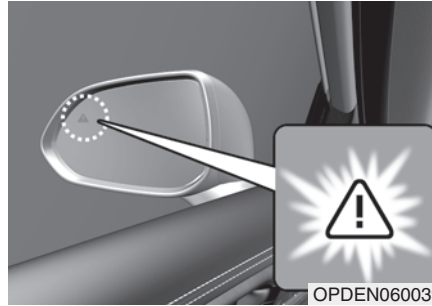


 **CAUTION**

- The setting of the Warning Timing and Warning Volume applies to all functions of the Blind-Spot Collision-Avoidance Assist.
- Even though 'Normal' is selected for Warning Timing, if a vehicle approaches at high speed, the warning may seem late.
- Select 'Late' for Warning Timing when traffic is light and when driving speed is slow.

## Blind-Spot Collision-Avoidance Assist operation

### Warning and control



### Vehicle detection

To warn the driver a vehicle is detected, the warning light on the outside rearview mirror will illuminate.

The system will operate when your vehicle speed is above 12 mph (20 km/h) and the speed of the vehicle in the blind spot area is above 6 mph (10 km/h).

### Collision Warning

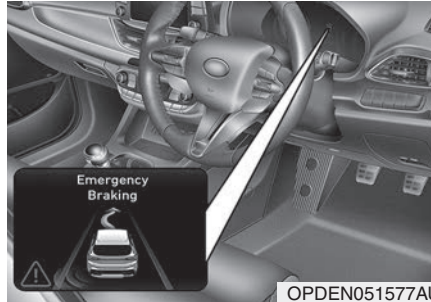
- Collision warning will operate when the turn signal is turned on in the direction of the detected vehicle.
- If 'Warning Only' is selected from the Settings menu, the collision warning will operate when your vehicle approaches the lane the blind spot vehicle is detected.
- To warn the driver of a collision, the warning light on the outside rearview mirror will blink. At the same time, an audible warning will sound.
- When the turn signal is turned off or you move away from the lane, the collision warning will be cancelled and the system will return to vehicle detection state.

## ⚠ WARNING

- The detecting range of the rear corner radar is determined by a standard road width, therefore, on a narrow road, Blind-Spot Collision-Avoidance Assist may detect other vehicles two lanes over and warn you. In contrast, on a wide road, Blind-Spot Collision-Avoidance Assist may not be able to detect a vehicle driving in the next lane and may not warn you.
- When the hazard warning flasher is on, the collision warning by the turn signal will not operate.

## **i** Information

If the driver's seat is on the right side, the collision warning may occur when you turn right. Maintain a proper distance with the vehicles in the right lane.

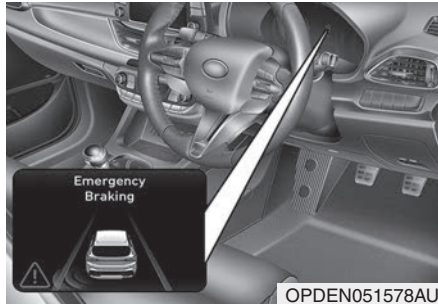


## Collision-avoidance assist (whilst driving)

- To warn the driver of a collision, the warning light on the outside rearview mirror will blink and a warning message will appear on the instrument cluster. At the same time, an audible warning will sound.
- The system will operate when your vehicle speed is between 37-124 mph (60-200 km/h) and both lane markings of the driving lane are detected.
- Emergency braking will be assisted to help prevent collision with the vehicle in the blind spot area.

## ⚠ WARNING

- Collision-Avoidance Assist will be cancelled under the following circumstances:
  - Your vehicle enters the next lane by a certain distance
  - Your vehicle is away from the collision risk
  - The steering wheel is sharply steered
  - The brake pedal is pressed
  - Forward Collision-Avoidance Assist is operating
- After system operation or a lane change, you must drive to the centre of the lane. The system will not operate if the vehicle is not driven in the centre of the lane.



### Collision-avoidance assist (whilst departing)

- To warn the driver of a collision, the warning light on the outside rearview mirror will blink and a warning message will appear on the instrument cluster. At the same time, an audible warning will sound and warning light on the head-up display (if equipped) will blink.
- The system will operate when your vehicle speed is below 1 mph (3 km/h) and the speed of the vehicle in the blind spot area is above 5 mph (5 km/h).
- Emergency braking will be assisted to help prevent collision with the vehicle in the blind spot area.



### Stopping vehicle and ending brake control

- When the vehicle is stopped due to emergency braking, the 'Drive carefully' warning message will appear on the instrument cluster. For your safety, the driver should press the brake pedal immediately and check the surroundings.
- Brake control will end after the vehicle is stopped by emergency braking for approximately 2 seconds.

## WARNING

Take the following precautions when using Blind-Spot Collision-Avoidance Assist:

- For your safety, change the Settings after parking the vehicle at a safe location.
- If any other system's warning message is displayed or audible warning is generated, Blind-Spot Collision-Avoidance Assist's warning message may not be displayed and audible warning may not be generated.
- You may not hear the warning sound of Blind-Spot Collision-Avoidance Assist if the surroundings are noisy.
- Blind-Spot Collision-Avoidance Assist may not operate if the driver applies the brake pedal to avoid collision.

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- When Blind-Spot Collision-Avoidance Assist is operating, braking control by the function will automatically cancel when the driver excessively presses the accelerator pedal or sharply steers the vehicle.
- During Blind-Spot Collision-Avoidance Assist operation, the vehicle may stop suddenly injuring passengers and shifting loose objects. Ensure all occupants have their seat belt on and keep loose objects secured.
- Even if there is a problem with Blind-Spot Collision-Avoidance Assist, the vehicle's basic braking performance will operate properly.
- Blind-Spot Collision-Avoidance Assist does not operate in all situations or cannot avoid all collisions.

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- Blind-Spot Collision-Avoidance Assist may warn the driver late or may not warn the driver depending on the road and driving conditions.
- Driver should maintain control of the vehicle at all times. Do not depend on Blind-Spot Collision-Avoidance Assist. Maintain a safe braking distance, and if necessary, press the brake pedal to reduce driving speed or to stop the vehicle.
- Never operate Blind-Spot Collision-Avoidance Assist on people, animals, objects, etc. It may cause serious injury or death.

 **WARNING**

The brake control may not operate properly depending on the status of ESC (Electronic Stability Control).

There will only be a warning when:

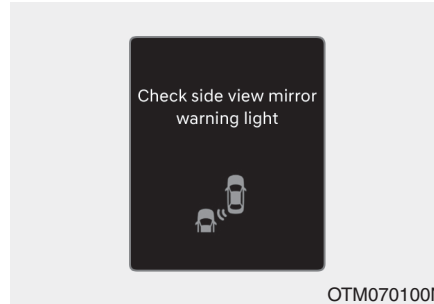
- The ESC (Electronic Stability Control) warning light is on
- ESC (Electronic Stability Control) is engaged in a different function

## Blind-Spot Collision-Avoidance Assist malfunction and limitations

### **Blind-Spot Collision-Avoidance Assist malfunction**



When Blind-Spot Collision-Avoidance Assist is not working properly, the 'Check Blind-Spot Safety system(s)' warning message will appear on the cluster for several seconds, and the master  $\triangle$  warning light will illuminate on the cluster. If this occurs, we recommend that the vehicle be inspected by an authorised HYUNDAI dealer.



When the outside rearview mirror warning light is not working properly, the 'Check side view mirror warning light' warning message will appear on the instrument cluster for several seconds, and the master  $\triangle$  warning light will illuminate on the cluster. If this occurs, we recommend that the vehicle be inspected by an authorised HYUNDAI dealer.

### **Blind-Spot Collision-Avoidance Assist disabled**



When the rear bumper around the rear corner radar or sensor is covered with foreign material, such as snow or rain, or installing a trailer or carrier, it can reduce the detecting performance and temporarily limit or disable Blind-Spot Collision-Avoidance Assist.

If this occurs, the 'Blind-Spot Safety system(s) disabled. Radar blocked' warning message will appear on the instrument cluster.

Blind-Spot Collision-Avoidance Assist will operate properly when such foreign material or trailer, etc., is removed, and then the engine is restarted.

If Blind-Spot Collision-Avoidance Assist does not operate properly after it is removed, we recommend that the vehicle be inspected by a HYUNDAI authorised repairer.

### WARNING

- **Even though the warning message does not appear on the cluster, Blind-Spot Safety system may not properly operate.**
- **Blind-Spot Safety system may not properly operate in an area (for example, open terrain) where no objects are detected immediately after the engine is turned on, or when the detecting sensor is blocked with foreign material immediately after the engine is turned on.**

### CAUTION

**Turn off Blind-Spot Collision-Avoidance Assist to install or remove a trailer, carrier, or another attachment. Turn on Blind-Spot Collision-Avoidance Assist when finished.**

### ***Limitations of Blind-Spot Collision-Avoidance Assist***

Blind-Spot Safety system may not operate properly, or it may operate unexpectedly under the following circumstances:

- There is inclement weather, such as heavy snow, heavy rain, etc.
- The rear corner radar is covered with snow, rain, dirt, etc.
- The temperature around the rear corner radar is high or low
- Driving on a highway (or motorway) ramp
- The road pavement (or the peripheral ground) abnormally contains metallic components (for example, possibly due to subway construction)
- There is a fixed object near the vehicle, such as sound barriers, guardrails, central dividers, entry barriers, street lamps, signs, tunnels, walls, etc. (including double structures)
- Driving in vast areas where there are few vehicles or structures (for example, desert, meadow, suburb, etc.)

- Driving on a narrow road where trees or grass are overgrown
- Driving on a wet road surface, such as a puddle on the road
- The other vehicle drives very close behind your vehicle, or the other vehicle passes by your vehicle in close proximity
- The speed of the other vehicle is very fast and it passes by your vehicle in a short time
- Your vehicle passes by another vehicle
- Your vehicle changes lane
- Your vehicle has started at the same time as the vehicle next to you and has accelerated
- The vehicle in the next lane moves two lanes away from you, or when the vehicle two lanes away moves to the next lane from you
- A trailer, carrier or other attachment is installed around the rear corner radar
- The bumper around the rear corner radar is covered with objects, such as a bumper sticker, bumper guard, bike rack, etc.
- The bumper around the rear corner radar is impacted, damaged or the radar is out of position
- Your vehicle height is low or high due to heavy loads, abnormal tyre pressure, etc.

Blind-Spot Collision-Avoidance Assist may not operate properly, or it may operate unexpectedly when the following objects are detected:

- A motorcycle or bicycle is detected
- A vehicle such as a flat trailer is detected
- A big vehicle such as a bus or truck is detected
- A moving obstacle such as a pedestrian, animal, shopping cart or a baby stroller is detected
- A vehicle with low height such as a sports car is detected

Braking control may not work, driver's attention is required in the following circumstances:

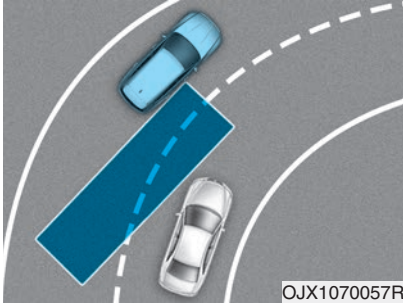
- The vehicle severely vibrates whilst driving over a bumpy road, uneven road or concrete patch
- Driving on a slippery surface due to snow, water puddle, ice, etc.
- The tyre pressure is low or a tyre is damaged
- The braking system has been modified
- The vehicle makes abrupt lane changes

### Information

**For more details on the limitations of the front view camera, refer to “Forward Collision-Avoidance Assist (FCA)” section in this chapter.**

**⚠ WARNING**

- Driving on a curved road

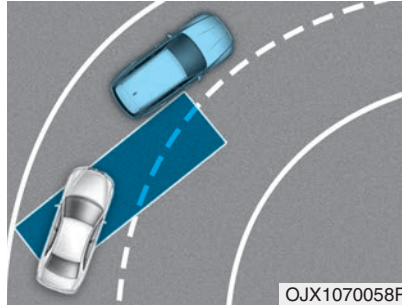


**Blind-Spot Avoidance Assist** may not operate properly when driving on a curved road. The function may not detect the vehicle in the next lane.

Always pay attention to road and driving conditions whilst driving.

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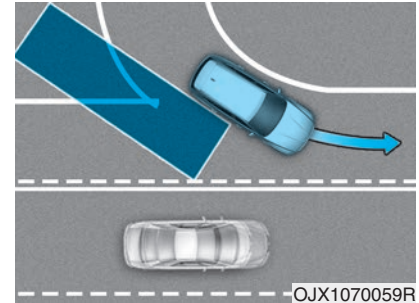
**Blind-Spot Avoidance Assist** may not operate properly when driving on a curved road. The function may recognise a vehicle in the same lane.

Always pay attention to road and driving conditions whilst driving.

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- Driving where the road is merging/dividing



**Blind-Spot Avoidance Assist** may not operate properly when driving where the road merges or divides. The function may not detect the vehicle in the next lane.

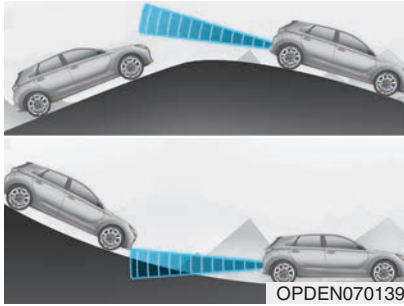
Always pay attention to road and driving conditions whilst driving.

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- Driving on an inclined road



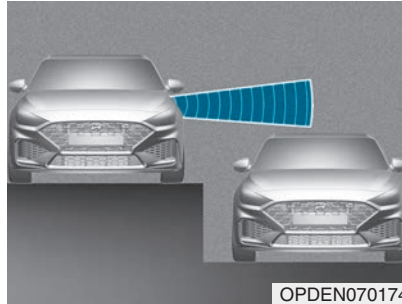
**Blind-Spot Collision-Avoidance Assist** may not operate properly when driving on a slope. The function may not detect the vehicle in the next lane or may incorrectly detect the ground or structure.

Always pay attention to road and driving conditions whilst driving.

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(Continued)

- Driving where the heights of the lanes are different



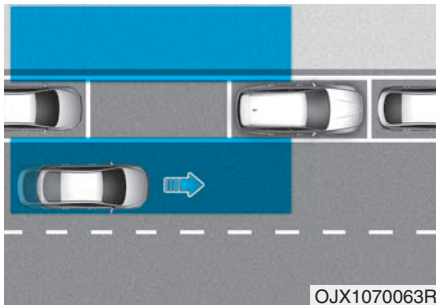
**Blind-Spot Collision-Avoidance Assist** may not operate properly when driving where the heights of the lanes are different. The function may not detect the vehicle on a road with different lane heights (underpass joining section, grade separated intersections, etc.).

Always pay attention to road and driving conditions whilst driving.

**⚠ WARNING**

- When you are towing a trailer or another vehicle, make sure that you turn off **Blind-Spot Collision-Avoidance Assist**.
- **Blind-Spot Collision-Avoidance Assist** may not operate properly if interfered by strong electromagnetic waves.
- **Blind-Spot Collision-Avoidance Assist** may not operate for 3 seconds after the vehicle is started, or the front view camera or rear corner radars are initialised.

## SAFE EXIT ASSIST (SEA) (IF EQUIPPED)



OJX1070063R

After the vehicle stops and an approaching vehicle from the rear area is detected. After a passenger opens the door, Safe Exit Warning will warn the driver with a warning message and an audible warning to help prevent a collision.

### CAUTION

Warning timing may vary depending on the speed of the approaching vehicle.

### Detecting sensor



OPDEN051579

[1] : Rear corner radar

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

### NOTICE

For more details on the precautions of the rear corner radars, refer to “Blind-Spot Collision-Avoidance Assist (BCA)” section in this chapter.

## Safe Exit Assist settings Setting



OTM070038N

### Safe Exit Assist

With the engine on, select 'Driver Assistance → Blind-Spot Safety → Safe Exit Assist (SEA)' from the Settings menu to turn on Safe Exit Warning and deselect to turn off the function.

### WARNING

The driver should always be aware of his or her surroundings. If 'Safe Exit Assist' is deselected, the system cannot assist you.

### **i** Information

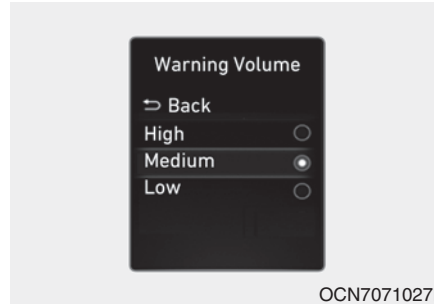
If the engine is restarted, Safe Exit Assist will maintain the previous setting.



### Warning Timing

With the engine on, select 'Driver Assistance → Warning Timing' from the Settings menu to change the initial warning activation time for Safe Exit Assist.

When the vehicle is first delivered, Warning Timing is set to 'Normal'. If you change the Warning Timing, the Warning Timing of other Driver Assistance systems may change.



### Warning Volume

With the engine on, select 'Driver Assistance → Warning Volume' from the Settings menu to change the Warning Volume 'High', 'Medium' and 'Low' for Safe Exit Assist.

If you change the Warning Volume, the Warning Volume of other Driver Assistance systems may change.

### **⚠ CAUTION**

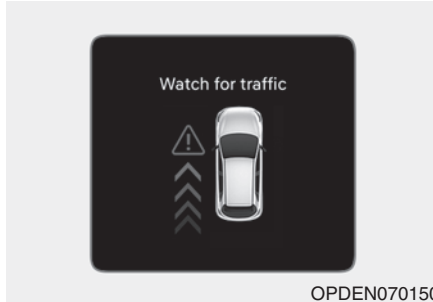
- The setting of the Warning Timing and Warning Volume applies to all functions of the Safe Exit Warning.
- Even though 'Normal' is selected for Warning Timing, if a vehicle approaches at high speed from the rear, the warning may seem late.
- Select 'Late' for Warning Timing when traffic is light and when driving speed is slow.

### **i** Information

If the engine is restarted, Warning Timing and Warning Volume will maintain the last setting.

## Safe Exit Assist operation

### Warning and control



### Collision warning when exiting vehicle

- When an approaching vehicle from the rear is detected at the moment a door is opened, the 'Watch for traffic' warning message will appear on the instrument cluster, and an audible warning will sound.
- Safe Exit Warning will warn the driver when your vehicle speed is below 2 mph (3 km/h), and the speed of the approaching vehicle from the rear is above 3 mph (5 km/h).

### **i** Information

If a rear door is opened from the outside, it will open regardless of Safe Exit Assist operation.

### **!** WARNING

Take the following precautions when using Safe Exit Warning:

- For your safety, change the Settings after parking the vehicle at a safe location.
- If any other system's warning message is displayed or audible warning is generated, Safe Exit Warning message may not be displayed and audible warning may not be generated.
- You may not hear the warning sound of Safe Exit Warning if the surroundings are noisy.
- Safe Exit Warning does not operate in all situations and cannot prevent all collisions.

(Continued)

(Continued)

- Safe Exit Warning may warn the driver late or may not warn the driver depending on the road and driving conditions. Always check vehicle surroundings.
- The driver and passengers are responsible for accidents that occur whilst exiting the vehicle. Always check the surroundings before you exit the vehicle.
- Never deliberately operate Safe Exit Warning. Doing so may lead to serious injury or death.
- Safe Exit Warning does not operate if there is a problem with Blind-Spot Collision-Avoidance Assist. There may be a problem with Blind Spot Safety system when:
  - Blind-Spot Collision-Avoidance Assist warning light appears

(Continued)

(Continued)

- Blind-Spot Collision-Avoidance Assist sensor or the sensor surrounding is polluted or covered
- Blind-Spot Collision-Avoidance Assist fails to warn passengers or falsely warn passengers

**i Information**

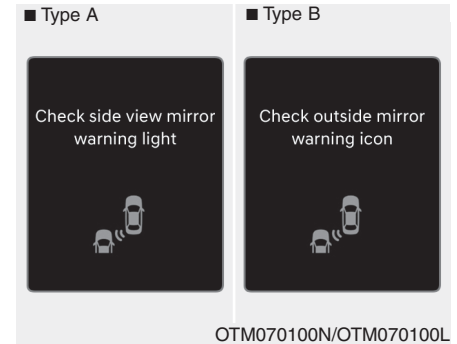
After the engine is turned off, Safe Exit Warning operates approximately for 3 minutes, but turns off immediately if the doors are locked.

### Safe Exit Assist malfunction and limitations

#### Safe Exit Assist malfunction

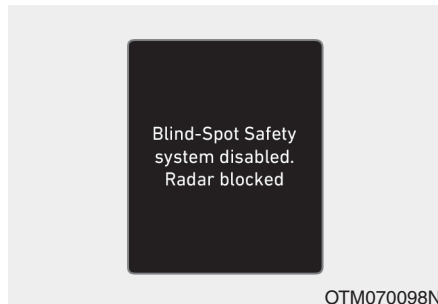


When Safe Exit Warning is not working properly, the 'Check Blind-Spot Safety system' warning message will appear on the instrument cluster for several seconds, and the master ⚠ warning light will illuminate on the cluster. If the master warning light illuminates, we recommend that the vehicle be inspected by an authorised HYUNDAI dealer.



When the outside rearview mirror warning light is not working properly, the 'Check side view mirror warning light' (or 'Check outside mirror warning icon') warning message will appear on the cluster for several seconds, and the master ⚠ warning light will illuminate on the cluster. If the master warning light illuminates, we recommend that the vehicle be inspected by an authorised HYUNDAI dealer.

## Safe Exit Assist disabled



When the rear bumper around the rear corner radar or sensor is covered with foreign material, such as snow or rain, or installing a trailer or carrier, it can reduce the detecting performance and temporarily limit or disable Safe Exit Warning.

If this occurs, the 'Blind-Spot Safety system(s) disabled. Radar blocked' warning message will appear on the instrument cluster.

Safe Exit Assist will operate properly when such foreign material or trailer, etc., is removed, and then the engine is restarted.

If Safe Exit Assist does not operate properly after it is removed, we recommend that the vehicle be inspected by a HYUNDAI authorised repairer.

### WARNING

- **Even though the warning message does not appear on the instrument cluster, Safe Exit Warning may not properly operate.**
- **Safe Exit Warning may not properly operate in an area (for example, open terrain) where objects are not detected immediately after the engine is turned on, or when the detecting sensor is blocked with foreign material immediately after the engine is turned on.**

### CAUTION

**Turn off Safe Exit Assist to install or remove a trailer, carrier, or another attachment. Turn on Safe Exit Assist when finished.**

### Limitations of Safe Exit Assist

Safe Exit Warning may not operate properly, or it may operate unexpectedly under the following circumstances:

- Getting out of the vehicle where trees or grass are overgrown
- Getting out of the vehicle where the road is wet
- The approaching vehicle is very fast or very slow

### Information

For more details on the limitations of the rear corner radar, refer to "Blind-Spt Collision-Avoidance Assist (BCA)" section in this chapter.

**⚠ WARNING**

- **Safe Exit Warning may not operate properly if interfered by strong electromagnetic waves.**
- **Safe Exit Warning may not operate for 3 seconds after the vehicle is started, or the rear corner radars are initialised.**

## MANUAL SPEED LIMIT ASSIST (MSLA) (IF EQUIPPED)

### Manual Speed Limit Assist operation

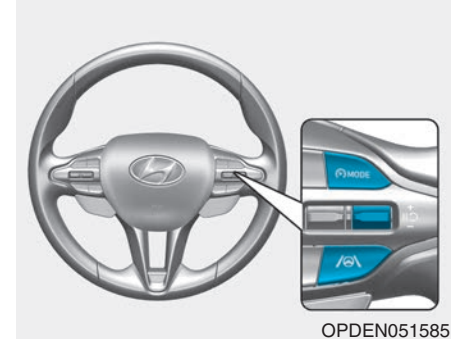
You can set the speed limit when you do not want to drive over a specific speed.

If you drive over the preset speed limit, the warning system operates (set speed limit will blink and chime will sound) until the vehicle speed returns within the speed limit.

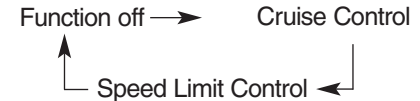
### **i** Information

**Whilst speed limit control is in operation, the cruise control cannot be activated.**

### Speed limit control switch



**MODE**: Changes mode between cruise control and speed limit control.

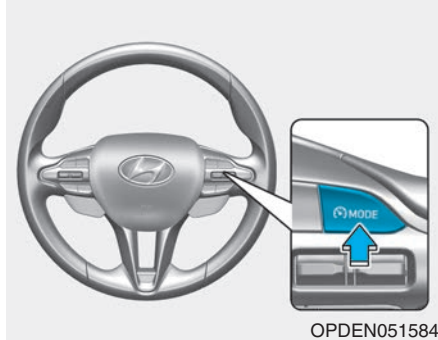



**+**: Set or increases speed limit control speed.

**-**: Sets or decreases speed limit control speed.

**II**: Resumes and Cancels set speed limit.

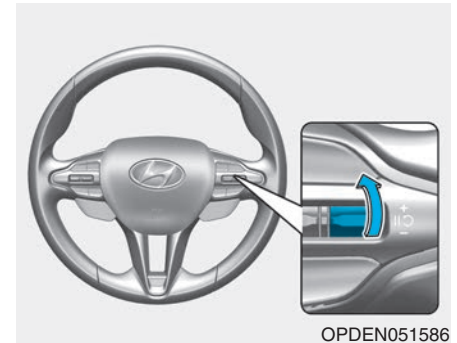
## To set speed limit



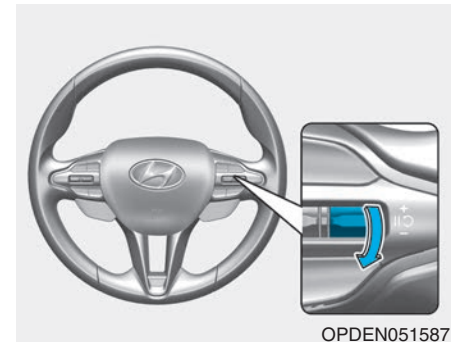
1. Press the  MODE button long enough to turn the function on. The speed limit indicator in the instrument cluster will illuminate.



The speed limit indicator in the instrument cluster will illuminate Green when the MSLA in and White when the MSLA cancelled.



1. Push the switch up (+).



2. Push the switch down (-).

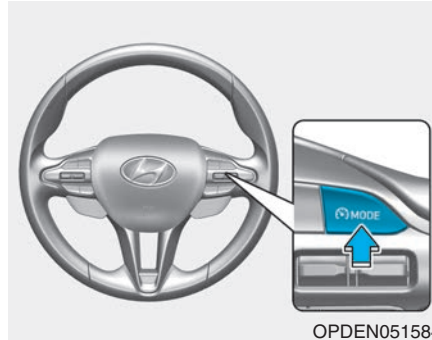




- Push the switch up (+) or down (-), and release it at the desired speed.
  - Push the switch up (+) or down (-) and hold it. The speed will increase or decrease by 6 mph (10 km/h).


The set speed limit will display on the instrument cluster.

When the accelerator pedal is depressed less than 50%, the vehicle speed remains within the speed limit. However, if you press the accelerator pedal hard enough, you may exceed the speed limit. Then the set speed limit will blink and chime will sound until you return the vehicle speed within the speed limit.

**To turn off the speed limit control, do one of the following:**



- Press the  MODE button.
- If you press  switch once, the set speed limit will cancel, but it will not turn the function off.

If you wish to resume the speed limit, push the + or – switch or push  switch on your steering wheel to your desired speed.

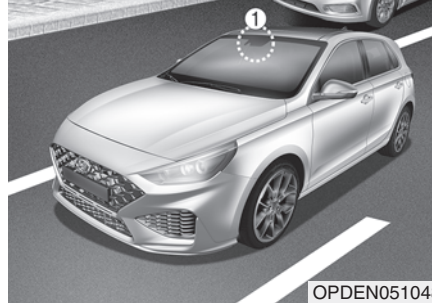
## INTELLIGENT SPEED LIMIT WARNING (ISLW) (IF EQUIPPED)

Intelligent Speed Limit Warning uses information from the detected road sign and navigation system to inform the driver of the speed limit and additional information of the current road.

### CAUTION

Intelligent Speed Limit Warning may not operate properly if the system is used in other countries.

### Detecting sensor



[1] : Front view camera

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

### CAUTION

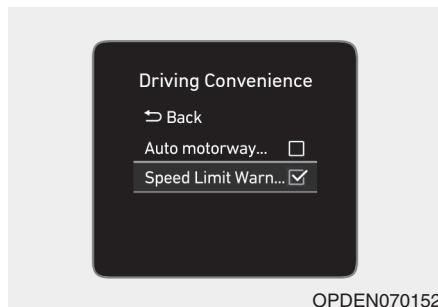
For more details on the precautions of the front view camera, refer to “Forward Collision-Avoidance Assist (FCA)” section in this chapter.

### Information

If the navigation system is available, the information from the navigation system is used along with the road sign information detected by the front view camera.

## Intelligent Speed Limit Warning settings

### Setting



### Speed Limit Warning

With the engine on, select or deselect 'Driver Assistance → Driving Convenience → Speed Limit Warning' from the Settings menu to set whether or not to use the function.

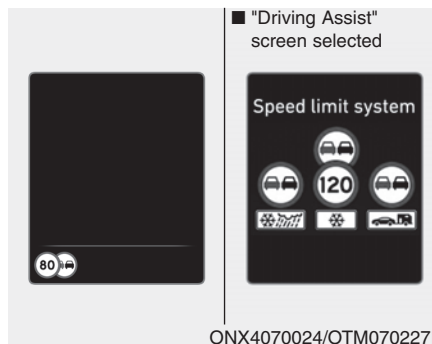
- If 'SLW (Speed Limit Warning)' is selected, Intelligent Speed Limit Warning will inform the driver of speed limit and additional road signs.

### Information

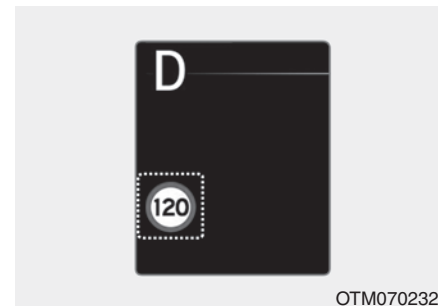
Intelligent Speed Limit Warning turns on automatically whenever the engine is turned on.

### Intelligent Speed Limit Warning operation

#### Intelligent Speed Limit Warning display

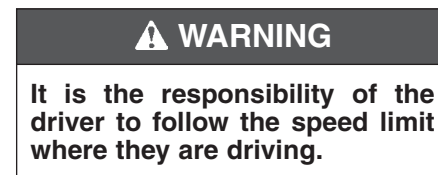


Intelligent Speed Limit Warning displays the speed limit information and overtaking restriction, when your vehicle passes by relevant traffic signs.



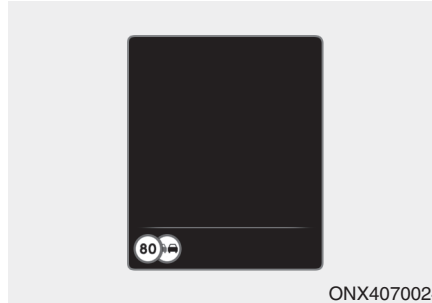
#### Displaying speed limit

Speed limit information is displayed on the instrument cluster.



## **i** Information

- Intelligent Speed Limit Warning provides additional road sign information in addition to speed limit. The additional road sign information provided may vary according to your country.
- Supplementary sign displayed under the speed limit or overtaking restriction sign means the conditions under which the signs must be followed. If supplementary sign is not recognised, it is displayed as blank.

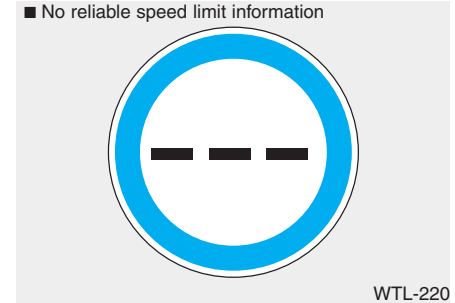


### Conditional road sign

If Intelligent Speed Limit Warning detects a conditional road sign, the road sign symbol is overlapped at the bottom or left side of the speed limit on the cluster.

There may be signs with different speed limits on the same road. For example, normally, the speed limit is 60 mph (100 km/h), however, the speed limit is 45 mph (60 km/h) when it is raining or snowing.

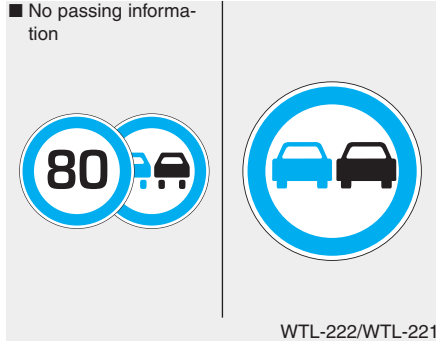
The conditional road sign means that you must observe the speed limit and overtaking prohibition on certain conditions, such as when it rains or snows.



### Additional road signs

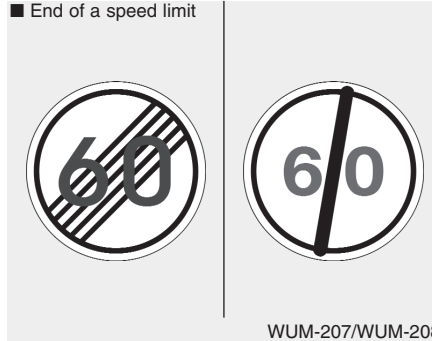
- The symbol is displayed when Intelligent Speed Limit Warning does not have any reliable speed limit information.

### ■ No passing information



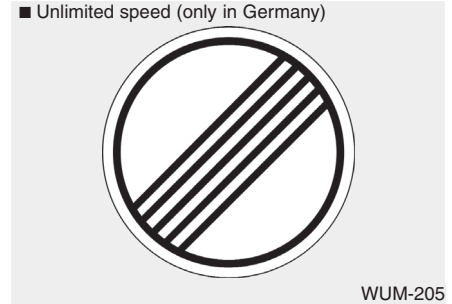
- The symbol is displayed when Intelligent Speed Limit Warning detects a no overtaking sign.

### ■ End of a speed limit



- After the vehicle passes a 'End of speed limit' sign, Intelligent Speed Limit Warning informs the driver of the next applicable speed limit based on the information received from the navigation system.

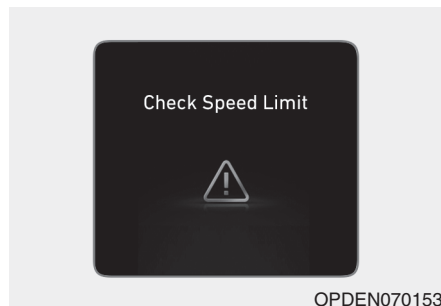
### ■ Unlimited speed (only in Germany)




- The symbol, 'End of limitation', is displayed on the instrument cluster for roads in Germany, which have no speed limit applicable. It is displayed, until the vehicle passes by a speed limit sign.

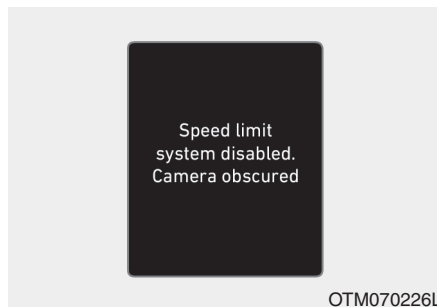
## Intelligent Speed Limit Warning malfunction and limitations

### Intelligent Speed Limit Warning malfunction



When Intelligent Speed Limit Warning is not working properly, the 'Check speed limit system' warning message will appear on the cluster for several seconds, and the master  warning light will illuminate on the cluster. If this occurs, we recommend that the vehicle be inspected by an authorised HYUNDAI dealer.

### Intelligent Speed Limit Warning disabled



When the front windscreen where the front view camera is located is covered with foreign material, such as snow or rain, it can reduce the detecting performance and temporarily limit or disable Intelligent Speed Limit Warning. If this occurs, the 'Speed limit system disabled. Camera obscured' warning message will appear on the cluster.

Intelligent Speed Limit Warning will operate properly when snow, rain or foreign material is removed.

If Intelligent Speed Limit Warning does not operate properly after it is removed, we recommend that the vehicle be inspected by an authorised HYUNDAI dealer.

## WARNING

Even though the warning message or warning light does not appear on the cluster, Intelligent Speed Limit Warning may not operate properly.

If the detecting sensor is contaminated immediately after starting the engine, Intelligent Speed Limit Warning may not operate properly.

### Limitations of Intelligent Speed Limit Warning

Intelligent Speed Limit Warning may not operate or may not provide correct information under the following circumstances:

- The road sign is contaminated or indistinguishable
  - The road sign is difficult to see due to bad weather, such as rain, snow, fog, etc.
  - The road sign is not clear or damaged

- The road sign is partially obscured by surrounding objects or shadow
- A road sign near the road you are driving is detected
- The road signs do not conform to the standard
  - The text or picture on the road sign is different from the standard
  - The road sign is installed between the main line and the exit road or between diverging roads
  - There is no conditional road signs on the road sign located on the exit road
  - A sign is attached to another vehicle
- The brightness changes suddenly, for example when entering or exiting a tunnel or passing under a bridge
- Headlamps are not used or the brightness of the headlamps are weak at night or in the tunnel
- Road signs are difficult to recognise due to the reflection of sunlight, street lights, or oncoming vehicles
- The field of view of the front view camera is obstructed by sun glare
- Driving on a road that is sharply curved or continuously curved
- Driving through speed bumps, or driving up and down or left to right on steep inclines
- The vehicle is shaking heavily

### Information

**For more details on the limitations of the front view camera, refer to “Forward Collision-Avoidance Assist (FCA)” section in this chapter.**

## DRIVER ATTENTION WARNING (DAW)

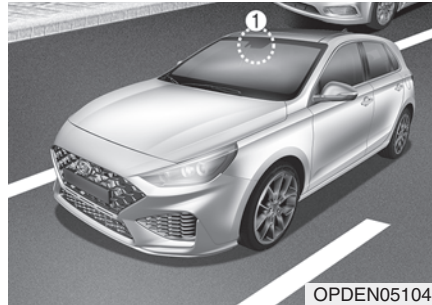
### Basic function

Driver Attention Warning can help determine the driver's attention level by analyzing driving pattern and driving time whilst the vehicle is driven. The system will recommend a break when the driver's attention level falls below a certain level.

### Leading Vehicle Departure Alert function

Leading Vehicle Departure Alert function will inform the driver when the front vehicle departs from a stop.

### Detecting sensor



[1] : Front view camera

The front view camera is used to help detect driving patterns and front vehicle departure whilst vehicle is being driven.

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

### CAUTION

**Always keep the front view camera in good condition to maintain optimal performance of Driver Attention Warning.**

**For more details on the precautions of the front view camera, refer to “Forward Collision-Avoidance Assist (FCA)” section in this chapter.**



### Driver Attention Warning settings

#### Setting



#### Driver Attention Warning

With the engine on, select or deselect 'Driver Assistance → Driver Attention Warning' from the Settings menu to set whether to use each function.

- If 'Inattentive Driving Warning' is selected, Driver Attention Warning will inform the driver the driver's attention level and will recommend taking a break when the level falls below a certain level.



#### Leading Vehicle Departure Alert

- If 'Leading Vehicle Departure Alert' is selected, the function will inform the driver when a detected vehicle in front departs from a stop.



#### Warning Timing

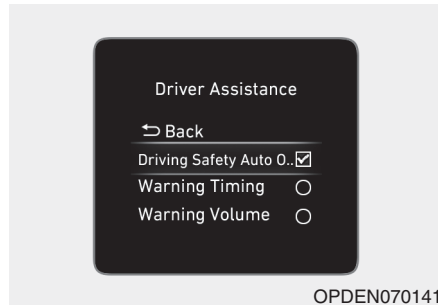
With the engine on, select 'Driver Assistance → Warning Timing' from the Settings menu to change the initial warning activation time for Driver Attention Warning.

When the vehicle is first delivered, Warning Timing is set to 'Normal'. If you change the Warning Timing, the Warning Timing of other Driver Assistance systems may change.

#### **i** Information

**If the engine is restarted, Driver Attention Warning will maintain the previous setting.**

## Driving Safety Auto Off in N mode



You can select 'Driving Safety Auto Off in N mode' from 'Drive Assistance' in the set up menu when the engine is ON.

- If you select 'Driving Safety Auto Off in N mode', it is connected with N mode so that Driver Attention Warning turns off automatically.
- If you deselect 'Driving Safety Auto Off in N mode', Driver Attention Warning does not turn off automatically even when N mode is working.

## Driver Attention Warning operation

### Basic function

Display and warning

The basic function of Driver Attention Warning is to inform the driver of their 'Attention Level' and to warn the driver to 'Consider taking a break'.

## Attention level



The driver can monitor their driving conditions on the cluster.

- When the 'Inattentive Driving Warning' is deselected from the Settings menu, 'System Off' is displayed.

- The system will operate when vehicle speed is between 0-124 mph (0-180 km/h).
- When vehicle speed is not within the operating speed, the message 'Standby' (or 'Disabled') will be displayed.
- The driver's attention level is displayed on the scale of 1 to 5. The lower the level is, the more inattentive the driver is.
- The level decreases when the driver does not take a break for a certain period of time.

### Taking a break



- The 'Consider taking a break' message will appear on the instrument cluster and an audible warning will sound to suggest that the driver take a break, when the driver's attention level is below 1.
- Driver Attention Warning will not suggest a break when the total driving time is shorter than 10 minutes or 10 minutes has not passed after the last break was suggested.

### WARNING

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

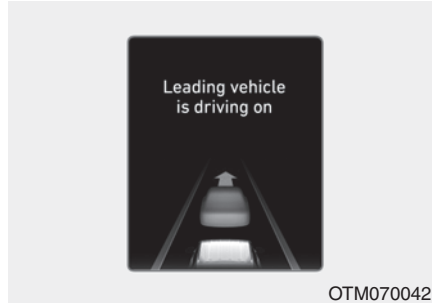
### CAUTION

- **Driver Attention Warning may suggest a break depending on the driver's driving pattern or habits, even if the driver doesn't feel fatigued.**
- **Driver Attention Warning is a supplemental system and may not be able to determine whether the driver is inattentive.**
- **A driver who feels fatigued should take a break at a safe location, even though there is no break suggestion by Driver Attention Warning.**

## **i** Information

- You may change settings from the instrument cluster (User Settings) or infotainment system (Vehicle Settings), whichever option that is provided with your vehicle. For more details, see "User Settings" section in chapter 3, or "Vehicle Settings" section in the supplied Infotainment Manual.
- Driver Attention Warning will reset the last break time to 00:00 in the following situations:
  - The engine is turned off
  - The driver unfastens the seat belt and opens the driver's door
  - The vehicle is stopped for more than 10 minutes
- When the driver resets Driver Attention Warning, the last break time is set to 00:00 and the driver's attention level is set to High.

## **Leading Vehicle Departure Alert function**



When a detected vehicle in front departs from a stop, Leading Vehicle Departure Alert will inform the driver by displaying the 'Leading vehicle is driving on' message on the instrument cluster and an audible warning will sound.

## **! WARNING**

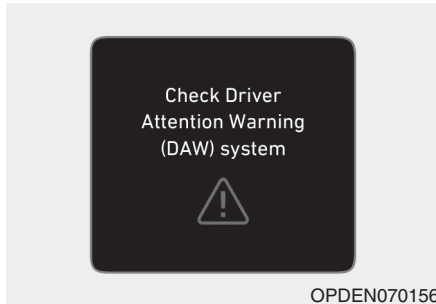
- If any other system's warning message is displayed or audible warning is generated, Leading Vehicle Departure Alert's warning message may not be displayed and audible warning may not be generated.
- The driver has the responsibility to safely drive and control the vehicle.


## **! CAUTION**

- Leading Vehicle Departure Alert is a supplemental function and may not alert the driver whenever the front vehicle departs from a stop.
- Always check the front of the vehicle and road conditions before departure.

### Driver Attention Warning malfunction and limitations

#### Driver Attention Warning malfunction



When Driver Attention Warning is not working properly, the 'Check Driver Attention Warning (DAW) system' warning message will appear on the instrument cluster for several seconds, and the master  warning light will illuminate on the cluster. If this occurs, we recommend that the vehicle be inspected by an authorised HYUNDAI dealer.

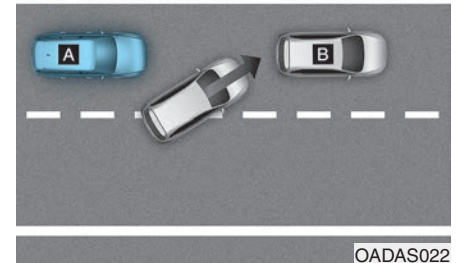
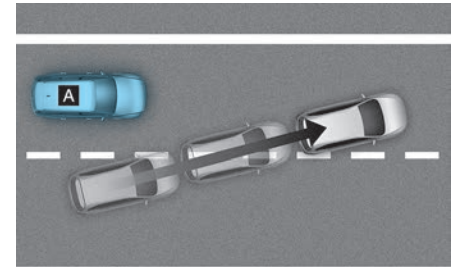
#### Limitations of Driver Attention Warning

Driver Attention Warning may not work properly in the following situations:

- The vehicle is driven violently
- The vehicle intentionally crosses over lanes frequently
- The vehicle is controlled by Driver Assistance system, such as Lane Keeping Assist

#### Leading Vehicle Departure Alert function

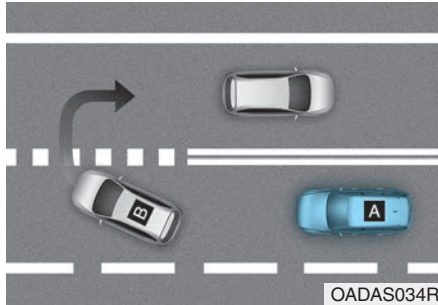
- When the vehicle cuts in



[A] : Your vehicle, [B] : Front vehicle

If a vehicle cuts in front of your vehicle, Leading Departure Alert may not operate properly.

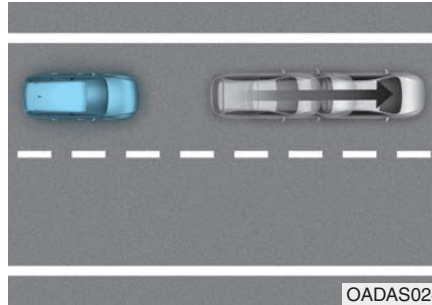
- When the vehicle ahead sharply steers



[A] : Your vehicle, [B] : Front vehicle

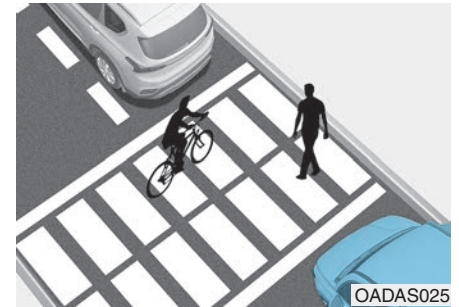
If the vehicle in front makes a sharp turn, such as to turn left or right or make a U-turn, etc., Leading Vehicle Departure Alert may not operate properly.

- When the vehicle ahead abruptly departs



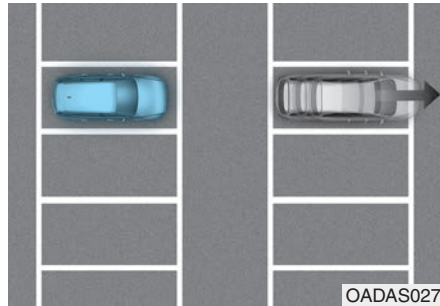
If the vehicle in front abruptly departs, Leading Vehicle Departure Alert may not operate properly.

- When a pedestrian or bicycle is between you and the vehicle ahead



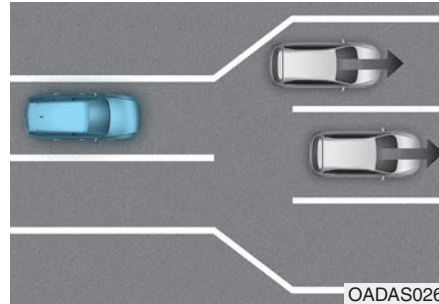
If there is a pedestrian(s) or bicycle(s) in between you and the vehicle in front, Leading Vehicle Departure Alert may not operate properly.

- When in a parking lot



If a vehicle parked in front drives away from you, Leading Vehicle Departure Alert may alert you that the parked vehicle is driving away.

- When driving at a tollgate or intersection, etc.

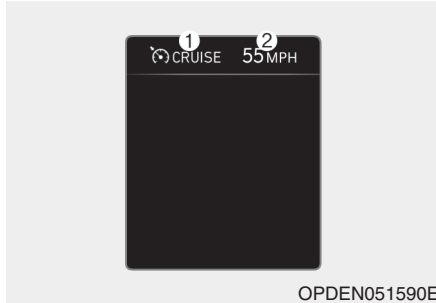


If you pass a tollgate or intersection with lots of vehicles or you drive where lanes are merged or divided frequently, Leading Vehicle Departure Alert may not operate properly.

### **i** Information

For more details on the precautions of the front view camera, refer to “Forward Collision-Avoidance Assist (FCA)” section in this chapter.

## CRUISE CONTROL (CC) (IF EQUIPPED)



OPDEN051590E

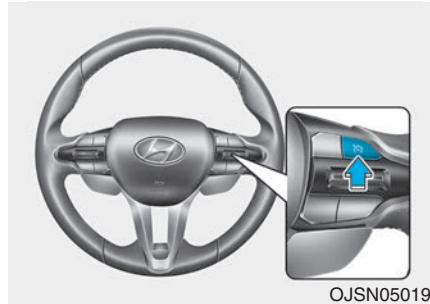
- (1) Cruise indicator
- (2) Set speed

Cruise Control allows you to drive at speeds above 20 mph (30 km/h) without pressing the accelerator pedal.

### Cruise Control operation

#### Setting set speed

1. Accelerate to the desired speed, which must be more than 20 mph (30 km/h).



OJSN050194

2. Press the Driving Assist button at the desired speed. The set speed and Cruise (CRUISE) indicator will illuminate on the instrument cluster.

3. Release the accelerator pedal.

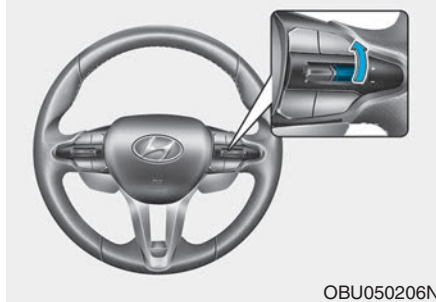
Vehicle speed will maintain the set speed even when the accelerator pedal is not pressed.

#### **i** Information

**On a steep slope, the vehicle may slightly slow down or speed up whilst driving uphill or downhill.**

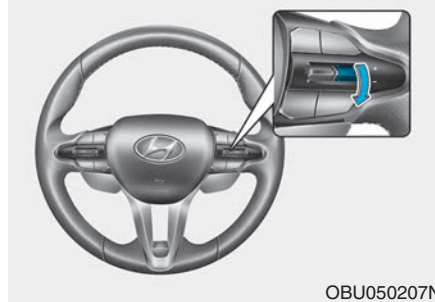


### Increasing set speed



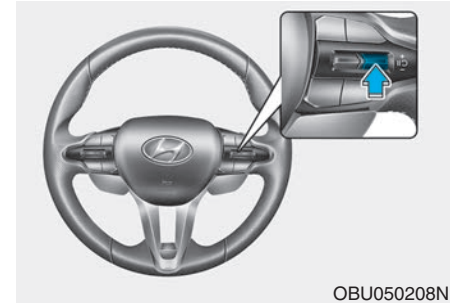
- Push the + switch up and release it immediately. The set speed will increase by 1 mph (1 km/h) each time the switch is operated in this manner.
  - Push the + switch up and hold it whilst monitoring the set speed on the instrument cluster. The set speed will increase to the nearest multiple of ten at first, and then increase by 6 mph (10 km/h) each time the switch is operated in this manner.
- Release the switch when the desired speed is shown and the vehicle will accelerate to that speed.


### Decreasing set speed




- Push the - switch down and release it immediately. The set speed will decrease by 1 mph (1 km/h) each time the switch is operated in this manner.
  - Push the - switch down and hold it whilst monitoring the set speed on the cluster. The set speed will decrease to the nearest multiple of ten at first, and then decrease by 6 mph (10 km/h) each time the switch is operated in this manner.
- Release the switch at the speed you want to maintain.

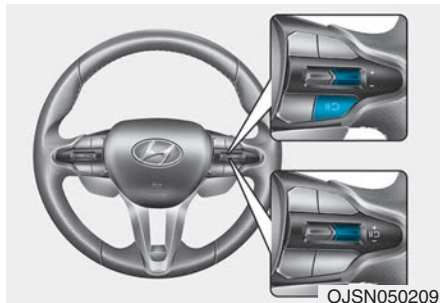
### Temporarily pausing Cruise Control



- Cruise Control will be paused when:
- Pressing the brake pedal.
  - Pushing the  button.
  - Shifting the gear to N (Neutral). (for dual clutch transmission vehicle)
  - Decreasing vehicle speed to less than approximately 20 mph (30 km/h).
  - ESC (Electronic Stability Control) is operating.
  - Downshifting to 2nd gear when in Manual Shift mode.


The set speed will turn off but the Cruise ( CRUISE) indicator will stay on.

## Resuming Cruise Control



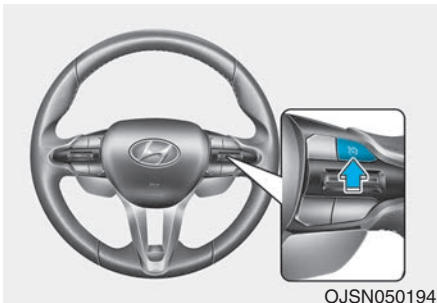
Push the +, - switch or  button.

If you push the + switch up or - switch down, vehicle speed will be set to the current speed on the cluster.


If you push the  button, vehicle speed will resume to the preset speed.

Vehicle speed must be above 20 mph (30 km/h) for the system to resume.

## Turning off Cruise Control



[A] : Type A, [B] : Type B

Press the Driving Assist button to turn Cruise Control off. The Cruise ( CRUISE) indicator will go off.


Always press the Driving Assist button to turn Cruise Control off when not in use.

### Information

If your vehicle is equipped with Manual Speed Limit Assist, press and hold the Driving Assist button to turn off Cruise Control. However, Manual Speed Limit Assist will turn on.

## WARNING

Take the following precautions when using Cruise Control:

- Always set the vehicle speed under the speed limit in your country.
- Keep Cruise Control off when the system is not in use, to avoid inadvertently setting a speed. Check that the Cruise ( CRUISE) indicator is off.
- Cruise Control does not substitute for proper and safe driving. It is the responsibility of the driver to always drive safely and should always be aware of unexpected and sudden situations from occurring.
- Always drive cautiously to prevent unexpected and sudden situations from occurring. Pay attention to the road conditions at all times.

(Continued)

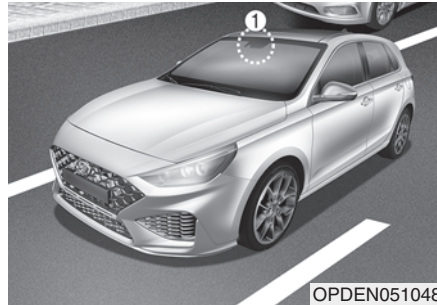
**(Continued)**

- **Do not use Cruise Control when it may be unsafe to keep the vehicle at a constant speed:**
  - **When driving in heavy traffic, or when traffic conditions make it difficult to drive at a constant speed**
  - **When driving on rainy, icy, or snow-covered roads**
  - **When driving on hilly or windy roads**
  - **When driving in windy areas**
  - **When driving with limited view (possibly due to bad weather, such as fog, snow, rain and sandstorm)**
- **Do not use Cruise Control when towing a trailer.**

## LANE FOLLOWING ASSIST (LFA) (IF EQUIPPED)

Lane Following Assist is designed to help detect lane markings and/or vehicles on the road, and assists the driver's steering to help centre the vehicle in the lane.

### Detecting sensor



[1] : Front view camera

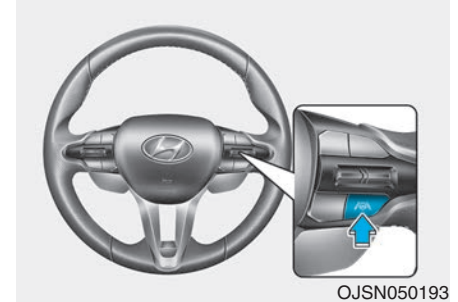
The front view camera is used as a detecting sensor to help detect lane markings and vehicles in front.

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


### CAUTION

**For more details on the precautions of the front view camera, refer to “Forward Collision-Avoidance Assist (FCA)” section in this chapter.**

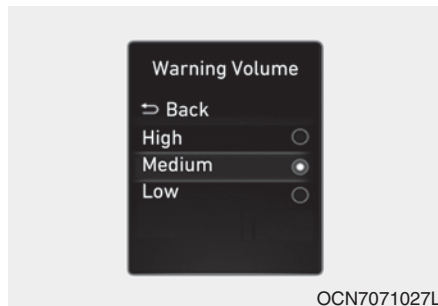
### Lane Following Assist settings Setting



### Turning Lane Following Assist On/Off

With the engine on, shortly press the Lane Driving Assist button located on the steering wheel to turn on Lane Following Assist. The white or green  indicator light will illuminate on the instrument cluster.

Press the button again to turn off the system.



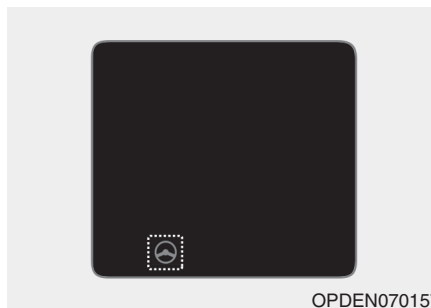
### Warning Volume

With the engine on, select 'Driver Assistance → Warning Volume' from the Settings menu to change the Warning Volume to 'High', 'Medium' or 'Low' for Hands-off warning.


If you change the Warning Volume, the Warning Volume of other Driver Assistance systems may change.

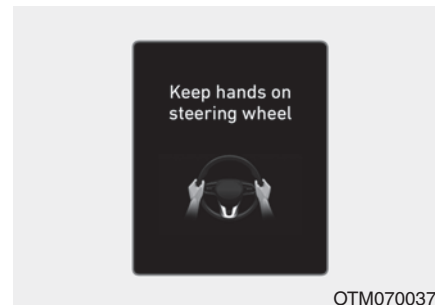
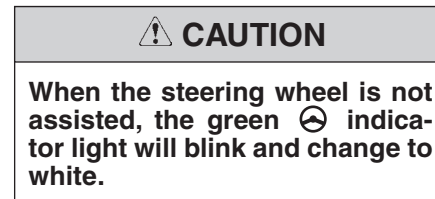
## Lane Following Assist operation

### Warning and control



### Lane Following Assist

If the vehicle ahead and/or both lane markings are detected and your vehicle speed is below 110 mph (180 km/h), the green  indicator light will illuminate on the instrument cluster, and the system will help centre the vehicle in the lane by assisting the steering wheel.



### Hands-off warning

If the driver takes their hands off the steering wheel for several seconds, the 'Keep hands on the steering wheel' warning message will appear and an audible warning will sound in stages.

First stage : Warning message

Second stage : Warning message  
(red steering wheel)  
and audible warning



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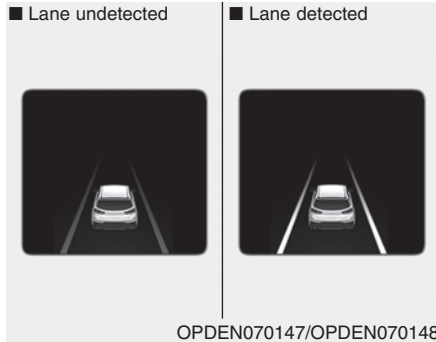
If the driver still does not have their hands on the steering wheel after the hands-off warning, the 'LFA (Lane Following Assist) cancelled' warning message will appear and Lane Following Assist will be automatically cancelled.

## WARNING

- **Lane Following Assist does not operate at all times. It is the responsibility of the driver to safely steer the vehicle and to maintain the vehicle in its lane.**
- **The hands-off warning message may appear late depending on road conditions. Always have your hands on the steering wheel whilst driving.**
- **If the steering wheel is held very lightly the hands-off warning message may appear because the system may not recognise that the driver has their hands on the steering wheel.**
- **If you attach objects to the steering wheel, the hands-off warning may not work properly.**

## Information

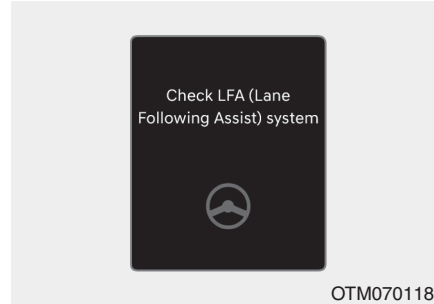
- You may change settings from the instrument cluster (User Settings) or infotainment system (Vehicle Settings), whichever option that is provided with your vehicle. For more details, see "User Settings" section in chapter 3, or "Vehicle Settings" section in supplied Infotainment Manual.
- When both lane markings are detected, the lane lines on the instrument cluster will change from grey to white.




- If lane markings are not detected, steering wheel control by Lane Following Assist can be limited depending on whether a vehicle is in front or the driving conditions of the vehicle.
- Even though the steering is assisted by Lane Following Assist, the driver may control the steering wheel.
- The steering wheel may feel heavier or lighter when the steering wheel is assisted by Lane Following Assist than when it is not.

### Lane Following Assist malfunction and limitations

#### Lane Following Assist malfunction



When Lane Following Assist is not working properly, the 'Check LFA (Lane Following Assist) system' warning message will appear on the instrument cluster for several seconds, and the master  warning light will illuminate on the cluster. If this occurs, we recommend that the vehicle be inspected by an authorised HYUNDAI dealer.

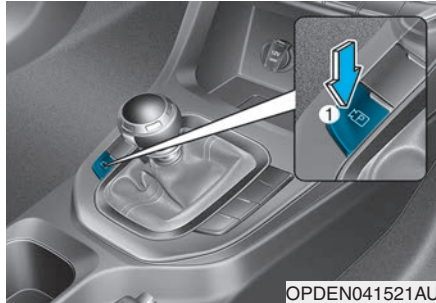
#### Limitations of Lane Following Assist

For more details on system limitations, refer to "Lane Keeping Assist (LKA)" section in this chapter.

#### Information

For more details on the system precautions, refer to "Lane Keeping Assist (LKA)" section in this chapter.

## REAR VIEW MONITOR (RVM) (IF EQUIPPED)



Rear View Monitor shows the area behind the vehicle to assist you when parking or reversing.

### Camera

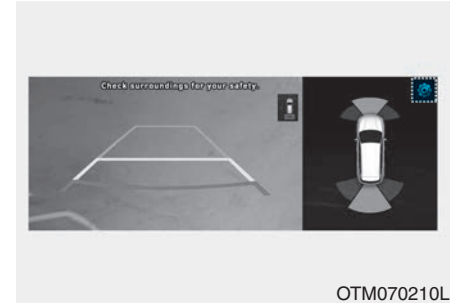


[1] : Rear view camera

Refer to the picture above for the detailed location of the camera.

## Rear View Monitor settings

### Camera settings



- You can change Rear View Monitor 'Display Contents' or 'Display Settings' by touching the setup icon (⚙️) on the screen whilst

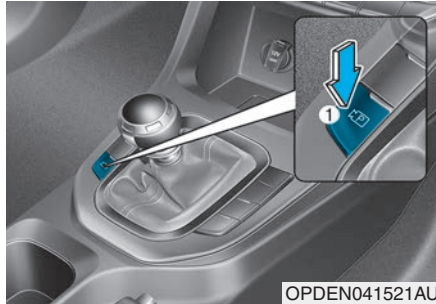
Rear View Monitor is operating, or select 'Driver Assistance → Parking Safety → Camera Settings' from the Settings menu whilst the engine is on.

- In the Display Contents, you can change settings for 'Rear View Parking Guidance', and in the Display Settings, you can change the screen's 'Brightness' and 'Contrast'.



## Rear View Monitor operation

### Operating button



### Parking/View button

Press the Parking/View button (1) to turn on Rear View Monitor.

Press the button again to turn off the function.

### Rear view

#### Operating conditions

- Shift the gear to R (Reverse), the image will appear on the screen.
- Press the Parking/View button (1) whilst the gear is in P (Park), the image will appear on the screen. However, parking guidance is not displayed.

#### Off conditions

- The rear view cannot be turned off when the gear is in R (Reverse).
- Press the Parking/View button (1) again whilst the gear is in P (Park) with the rear view on the screen, the rear view will turn off.
- Shift the gear from R (Reverse) to P (Park), the rear view will turn off.

### Extended rear view

The rear view will continue showing on the screen to help you when parking. However, parking guidance is not displayed.

#### Operating conditions

Shift the gear from R (Reverse) to N (Neutral) or D (Drive), the rear view will appear on the screen.

#### Off conditions

- When vehicle speed is above 6 mph (10 km/h), the rear view will turn off.
- Shift the gear to P (Park), the rear view will turn off.

### **Rear View whilst driving**



The driver is able to check the rear view on the screen whilst driving, it is to assist with backing up.

### **Operating conditions**

Press the Parking/View button (1) whilst the gear is in D (Drive) or N (Neutral), the driving rear view will appear on the screen.

### **Off conditions**

- Press the Parking/View button (1) again, the driving rear view will turn off.
- Press one of the infotainment system buttons (2), the driving rear view will turn off.
- Shift the gear to P (Park), the driving rear view will turn off.

### **When operating**

- If the gear is shifted to R (Reverse), whilst Driving rear view is displayed on the screen, the screen will change to rear view with parking guidance.
- When Driving rear view is displayed on the screen, an icon (1) will appear on the upper right side of the screen indicating that the rear view is being displayed.

### **Rear top view**



When you touch the **1** icon, the top view is displayed on the screen and shows the distance from the vehicle in the back of your vehicle whilst parking.

### Rear View Monitor malfunction and limitations

#### ***Rear View Monitor malfunction***

When Rear View Monitor is not working properly, or the screen flickers, or the camera image does not display properly, we recommend that the vehicle be inspected by a HYUNDAI authorised repairer.

#### ***Limitations of Rear View Monitor***

When the vehicle is stopped for a long time in winter or when the vehicle is parked in an indoor parking lot, the exhaust fumes may temporarily blur the image.

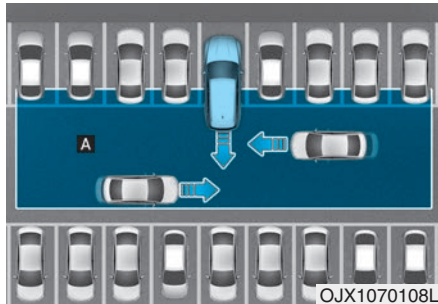
### **WARNING**

- **The rear view camera does not cover the complete area behind the vehicle. The driver should always check the rear area directly using the inside and outside rearview mirrors before parking or backing up.**
- **The image shown on the screen may differ from the actual distance of the object. Make sure to directly check the vehicle's surroundings for safety.**
- **Always keep the rear view camera lens clean. If the lens is covered with foreign material, it may adversely affect camera performance and Rear View Monitor may not operate properly.**

**However, do not use chemical solvents such as strong detergents containing high alkaline or volatile organic solvents (petrol, acetone etc.). This may damage the camera lens.**

## REAR CROSS-TRAFFIC COLLISION WARNING (RCCW) (IF EQUIPPED)

Rear Cross-Traffic Collision Warning Assist is designed to help detect vehicles approaching from the rear left and right side whilst your vehicle is reversing, and warn the driver that a collision is imminent with a warning message and an audible warning.



[A] : Rear Cross-Traffic Collision Warning operating range

### CAUTION

Warning timing may vary depending on the speed of the approaching vehicle.

### *Detecting sensor*



[1] : Rear corner radar

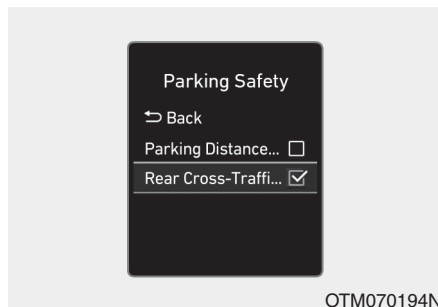
Refer to the picture above for the detailed location of the detecting sensor.

### CAUTION

For more details on the precautions of the rear corner radar, refer to “Blind-Spot Collision-Avoidance Warning (BCW)” section in this chapter.

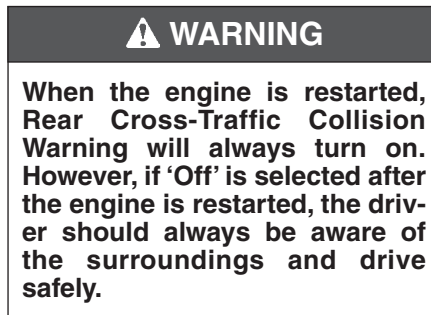
## Rear Cross-Traffic Collision Warning

### Setting



### Rear Cross-Traffic Safety

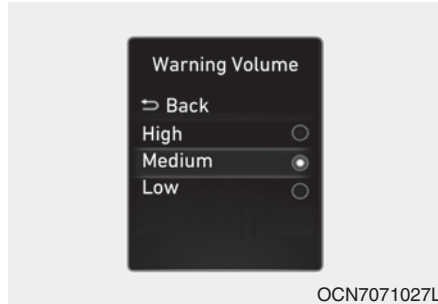
With the engine on, select 'Driver Assistance → Parking Safety → Rear Cross-Traffic Collision Warning' from the Settings menu to turn on Rear Cross-Traffic Safety function and deselect to turn off the system.



### Warning Timing

With the engine on, select 'Driver Assistance → Warning Timing' from the Settings menu to change the initial warning activation time for Rear Cross-Traffic Collision Warning.

When the vehicle is first delivered, Warning Timing is set to 'Normal'. If you change the Warning Timing, the Warning Timing of other Driver Assistance systems may change.



### Warning Volume

With the engine on, select 'Driver Assistance → Warning Volume' from the Settings menu to change the Warning Volume to 'High', 'Medium' or 'Low' for Rear Cross-Traffic Collision Warning.

If you change the Warning Volume, the Warning Volume of other Driver Assistance systems may change.

### CAUTION

- The setting of the Warning Timing and Warning Volume applies to all functions of Rear Cross-Traffic Collision Warning.
- Even though 'Normal' is selected for Warning Timing, if a vehicle from the left or right side approaches at high speed, the warning may seem late.
- Select 'Late' for Warning Timing when traffic is light and when driving speed is slow.

### Information

If the engine is restarted, Warning Timing and Warning Volume will maintain the last setting.

## Rear Cross-Traffic Collision Warning operation

### *Rear Cross-Traffic Collision Warning warning*

Rear Cross-Traffic Collision Warning will warn the driver when a collision is imminent.



### Collision Warning

- To warn the driver of an approaching vehicle from the rear left/right side of your vehicle, the outside rearview mirror will blink and a warning will appear on the cluster.

At the same time, an audible warning will sound. If Rear View Monitor is operating, a warning will also appear on the infotainment system screen.

- Rear Cross-Traffic Collision Warning will operate when all the following conditions are satisfied:
  - The gear is shifted to R (Reverse)
  - Vehicle speed is below 5 mph (8 km/h)
  - The approaching vehicle is within approximately 82 ft. (25 m) from the left and right side of your vehicle
  - The speed of the vehicle approaching from the left and right is above 3 mph (5 km/h)

### **i** Information

If the operating conditions are satisfied, there will be a warning whenever the vehicle approaches from the left or right side even though your vehicle speed is 0 km/h (0 mph).

### **!** WARNING

Take the following precautions when using Rear Cross-Traffic Collision Warning:

- For your safety, change the Settings after parking the vehicle at a safe location.
- If any other system's warning message is displayed or audible warning is generated, Rear Cross-Traffic Collision Warning's warning message may not be displayed and audible warning may not be generated.
- You may not hear the warning sound of Rear Cross-Traffic Collision Warning if the surrounding is noisy.

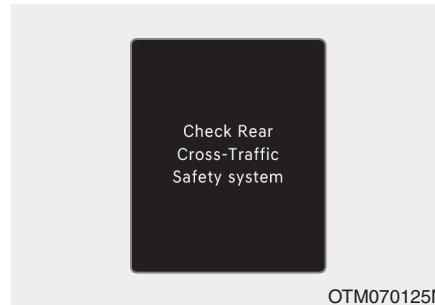
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- Rear Cross-Traffic Collision Warning may warn the driver late or may not warn the driver depending on the road and driving conditions.
- The driver should hold the responsibility to control the vehicle. Do not solely depend on Rear Cross-Traffic Collision Warning. Rather, maintain a safe braking distance, and if necessary, depress the brake pedal to reduce driving speed or to stop the vehicle.


## Rear Cross-Traffic Collision Warning malfunction and limitations

### *Rear Cross-Traffic Collision Warning malfunction*



When Rear Cross-Traffic Collision Warning is not working properly, the 'Check Rear Cross-Traffic Safety system(s)' warning message will appear on the cluster for several seconds, and the master  warning light will illuminate on the cluster. If this occurs, we recommend that the vehicle be inspected by an authorised HYUNDAI dealer.



When the outside rearview mirror warning light is not working properly, the 'Check outside mirror warning icon' warning message will appear on the cluster for several seconds, and the master  warning light will illuminate on the cluster. If this occurs, we recommend that the vehicle be inspected by an authorised HYUNDAI dealer.



### **Rear Cross-Traffic Collision Warning disabled**



When the rear bumper around the rear corner radar or sensor is covered with foreign material, such as snow or rain, or installing a trailer or carrier, it can reduce the detecting performance and temporarily limit or disable Rear Cross-Traffic Collision Warning.

If this occurs, the 'Rear cross-traffic safety functions disabled. Radar blocked' warning message will appear on the cluster.

Rear Cross-Traffic Collision Warning will operate properly when such foreign material or trailer, etc., is removed.

If Rear Cross-Traffic Collision Warning does not operate properly after it is removed, we recommend that the vehicle be inspected by a HYUNDAI authorised repairer.

#### **WARNING**

- Even though the warning message does not appear on the cluster, Rear Cross-Traffic Collision Warning may not operate properly.
- Rear Cross-Traffic Collision Warning may not operate properly in an area (for example: open terrain), where any substance are not detected after turning ON the engine.

#### **CAUTION**

Turn off Rear Cross-Traffic Collision Warning to install or remove a trailer, carrier, or another attachment. Turn on Rear Cross-Traffic Collision Warning when finished.

## Limitations of Rear Cross-Traffic Collision Warning

Rear Cross-Traffic Collision Warning may not operate properly, or it may operate unexpectedly under the following circumstances:

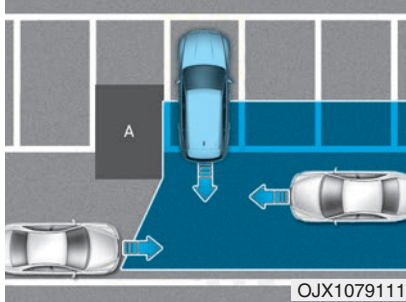
- Departing from where trees or grass are overgrown
- Departing from where roads are wet
- Speed of the approaching vehicle is fast or slow

### **i** Information

For more details on the limitations of the rear corner radar, refer to “Blind-Spot Collision-Avoidance Warning (BCW)” section in this chapter.

**⚠ WARNING**

- **Driving near a vehicle or structure**



OJX1079111

[A] : Structure

**Rear Cross-Traffic Collision Warning may be limited when driving near a vehicle or structure, and may not detect the vehicle approaching from the left or right. If this occurs, the function may not warn the driver when necessary.**

**Always check your surroundings whilst backing up.**

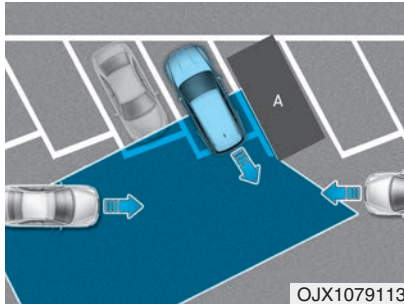
**(Continued)**

(Continued)

- **When the vehicle is in a complex parking environment**

(Continued)

- When the vehicle is parked diagonally



[A] : Vehicle

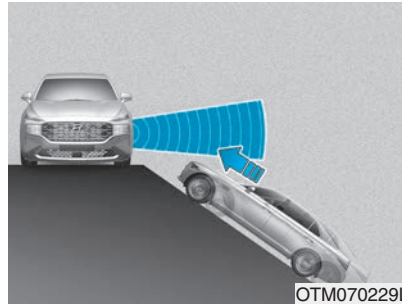
Rear Cross-Traffic Collision Warning may be limited when backing up diagonally, and may not detect the vehicle approaching from the left or right. If this occurs, the function may not warn the driver when necessary.

Always check your surroundings whilst backing up.

(Continued)

(Continued)

- When the vehicle is on or near a slope



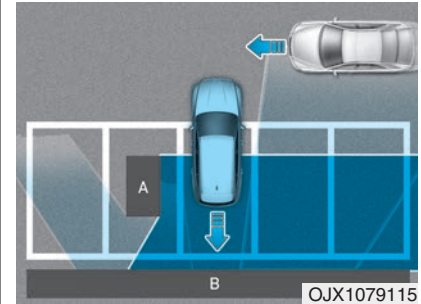
Rear Cross-Traffic Collision Warning may be limited when the vehicle is on an uphill or downhill slope, or near it, and may not detect the vehicle approaching from the left or right. If this occurs, the function may not warn the driver when necessary.

Always check your surroundings whilst backing up.

(Continued)

(Continued)

- Pulling into the parking space where there is a structure



[A] : Structure, [B] : Wall

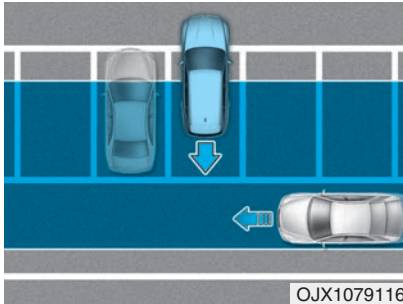
Rear Cross-Traffic Collision Warning may detect vehicles passing by in front of you when parking in reverse into a parking space with a wall or structure in the rear or side area. If this occurs, the function may unnecessarily warn the driver.

Always check your surroundings whilst backing up.

(Continued)

(Continued)

- When the vehicle is parked rearward



Rear Cross-Traffic Collision Warning may detect vehicles passing by behind you when parking in reverse into a parking space. If this occurs, the function may unnecessarily warn the driver.

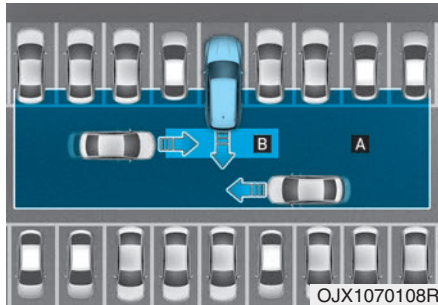
Always check your surroundings whilst backing up.

## ⚠ WARNING

- When you are towing a trailer or another vehicle, we recommend that Rear Cross-Traffic Collision Warning is turned off due to safety reasons.
- Rear Cross-Traffic Collision Warning may not operate properly if interfered by strong electromagnetic waves.
- Rear Cross-Traffic Collision Warning may not operate for 3 seconds after the vehicle is started, or the rear corner radars are initialized.

## REAR CROSS-TRAFFIC COLLISION-AVOIDANCE ASSIST (RCCA) (IF EQUIPPED)

Rear Cross-Traffic Collision-Avoidance Assist is designed to help detect vehicles approaching from the rear left and right side whilst your vehicle is reversing, and warn the driver that a collision is imminent with a warning message and an audible warning. Also, braking is assisted to help prevent a collision.



[A] : Rear Cross-Traffic Collision Warning operating range,

[B] : Rear Cross-Traffic Collision-Avoidance Assist operating range

### ⚠ CAUTION

Warning timing may vary depending on the speed of the approaching vehicle.

### Detecting sensor



[1] : Rear corner radar

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

### ⚠ CAUTION

For more details on the precautions of the rear corner radar, refer to “Blind-Spot Collision-Avoidance Assist (BCA)” section in this chapter.

## Rear Cross-Traffic Collision-Avoidance Assist settings

### Setting



### Rear Cross-Traffic Safety

With the engine on, select 'Driver Assistance → Parking Safety → Rear Cross-Traffic Safety' from the Settings menu to turn on Rear Cross-Traffic Collision-Avoidance Assist and deselect to turn off the function.

**⚠ WARNING**

When the engine is restarted, Rear Cross-Traffic Collision-Avoidance Assist will always turn on. However, if 'Off' is selected after the engine is restarted, the driver should always be aware of the surroundings and drive safely.

### **i** Information

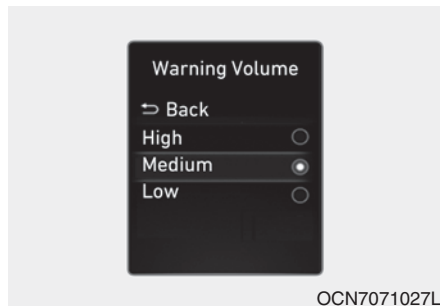
Settings for Rear Cross-Traffic Safety system include Rear Cross-Traffic Collision Warning and Rear Cross-Traffic Collision-Avoidance Assist.



### Warning Timing

With the engine on, select 'Driver Assistance → Warning Timing' from the Settings menu to change the initial warning activation time for Rear Cross-Traffic Collision-Avoidance Assist.

When the vehicle is first delivered, Warning Timing is set to 'Normal'. If you change the Warning Timing, the Warning Timing of other Driver Assistance systems may change.



### Warning Volume

With the engine on, select 'Driver Assistance → Warning Volume' from the Settings menu to change the Warning Volume to 'High', 'Medium' or 'Low' for Rear Cross-Traffic Collision-Avoidance Assist.

If you change the Warning Volume, the Warning Volume of other Driver Assistance systems may change.

### CAUTION

- The setting of the **Warning Timing and Warning Volume** applies to all functions of **Rear Cross-Traffic Collision-Avoidance Assist**.
- Even though 'Normal' is selected for **Warning Timing**, if a vehicle from the left or right side approach at high speed, the warning may seem late.
- Select 'Late' for **Warning Timing** when traffic is light and when driving speed is slow.

### Information

If the engine is restarted, **Warning Timing and Warning Volume** will maintain the previous setting.

## Rear Cross-Traffic Collision-Avoidance Assist operation

### **Warning and control**

Rear Cross-Traffic Collision-Avoidance Assist will warn and help control the vehicle depending on collision risk level: 'Collision Warning', 'Emergency Braking' and 'Stopping vehicle and ending brake control'.



### Collision Warning

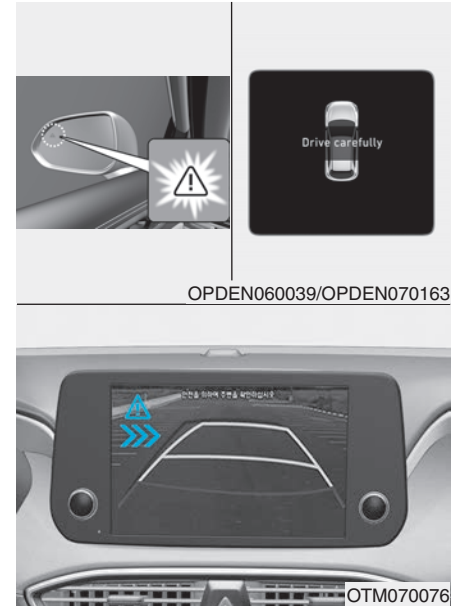
- To warn the driver of an approaching vehicle from the rear left/right side of your vehicle, the warning light on the outside rearview mirror will blink and a warning will appear on the instrument cluster.

At the same time, an audible warning will sound. If Rear View Monitor is operating, a warning will also appear on the infotainment system screen.

- Rear Cross-Traffic Collision-Avoidance Assist will operate when all the following conditions are satisfied:
  - The gear is shifted to R (Reverse)
  - Vehicle speed is below 5 mph (8 km/h)
  - The approaching vehicle is within approximately 82 ft. (25 m) from the left and right side of your vehicle
  - The speed of the vehicle approaching from the left and right is above 3 mph (5 km/h)

### **i** Information

**If the operating conditions are satisfied, there will be a warning whenever the vehicle approaches from the left or right side even though your vehicle speed is 0 km/h.**



### Emergency Braking

- To warn the driver of an approaching vehicle from the rear left/right side of your vehicle, the warning light on the outside rearview mirror will blink and, the 'Emergency Braking' warning message will appear on the instrument cluster.



At the same time, an audible warning will sound. If Rear View Monitor is operating, a warning will also appear on the infotainment system screen.

- Rear Cross-Traffic Collision-Avoidance Assist will operate when all the following conditions are satisfied:
  - The gear is shifted to R (Reverse)
  - Vehicle speed is below 5 mph (8 km/h)
  - The approaching vehicle is within approximately 5 ft. (1.5 m) from the left and right side of your vehicle
  - The speed of the vehicle approaching from the left and right is above 3 mph (5 km/h)
- Emergency braking will be assisted to help prevent collision with approaching vehicles from the left and right.

### WARNING

**Brake control will end when:**

- **The approaching vehicle is out of the detecting range**
- **The approaching vehicle passes behind your vehicle**
- **The approaching vehicle does not drive toward your vehicle**
- **The approaching vehicle speed slows down**
- **The driver presses the brake pedal with sufficient power**



### Stopping vehicle and ending brake control

- When the vehicle is stopped due to emergency braking, the 'Drive carefully' warning message will appear on the instrument cluster.
- For your safety, the driver should press the brake pedal immediately and check the surroundings.
- Brake control will end after the vehicle is stopped by emergency braking for approximately 2 seconds.
- During emergency braking, braking control by Rear Cross-Traffic Collision-Avoidance Assist will automatically cancel when the driver excessively presses the brake pedal.

## **WARNING**

Take the following precautions when using Rear Cross-Traffic Collision-Avoidance Assist:

- For your safety, change the Settings after parking the vehicle at a safe location.
- If any other system's warning message is displayed or audible warning is generated, Rear Cross-Traffic Collision-Avoidance Assist's warning message may not be displayed and audible warning may not be generated.
- You may not hear the warning sound of Rear Cross-Traffic Collision-Avoidance Assist if the surrounding is noisy.
- Rear Cross-Traffic Collision-Avoidance Assist may not operate if the driver applies the brake pedal to avoid collision.

(Continued)

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- During Rear Cross-Traffic Collision-Avoidance Assist operation, the vehicle may stop suddenly injuring passengers and shifting loose objects. Always have the seat belt on and keep loose objects secured.
- Even if there is a problem with Rear Cross-Traffic Collision-Avoidance Assist, the vehicle's basic braking performance will operate properly.
- When Rear Cross-Traffic Collision-Avoidance Assist is operating, braking control by the system will automatically cancel when the driver excessively depresses the accelerator pedal.
- Rear Cross-Traffic Collision-Avoidance Assist does not operate in all situations and cannot avoid all collisions.

(Continued)

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- Rear Cross-Traffic Collision-Avoidance Assist may warn the driver late or may not warn the driver depending on the road and driving conditions.
- The driver has the responsibility to control the vehicle. Do not solely depend on Rear Cross-Traffic Collision-Avoidance Assist. Rather, maintain a safe braking distance, and if necessary, press the brake pedal to reduce driving speed or to stop the vehicle.
- Never deliberately operate Rear Cross-Traffic Collision-Avoidance Assist on people, animals, objects, etc. It may cause serious injury or death.

 **CAUTION**

The brake control may not operate properly depending on the status of ESC (Electronic Stability Control).

There will only be a warning when:

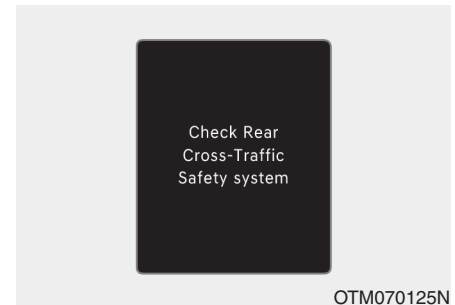
- The ESC (Electronic Stability Control) warning light is on
- ESC (Electronic Stability Control) is engaged in a different function


 **Information**

- If braking is assisted by Rear Cross-Traffic Collision-Avoidance Assist, the driver must immediately depress the brake pedal and check vehicle surroundings.
- Brake control will end when the driver presses the brake pedal with sufficient power.
- After shifting the gear to R (Reverse), braking control will operate once for left and right vehicle approach.


**Rear Cross-Traffic Collision-Avoidance Assist malfunction and limitations**

***Rear Cross-Traffic Collision-Avoidance Assist malfunction***

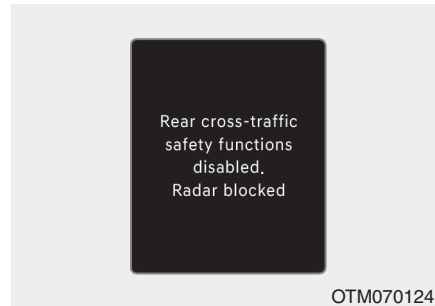


When Rear Cross-Traffic Collision-Avoidance Assist is not working properly, the 'Check Rear Cross-Traffic Safety system(s)' warning message will appear on the instrument cluster for several seconds, and the master  warning light will illuminate on the cluster. If this occurs, we recommend that the vehicle be inspected by an authorised HYUNDAI dealer.



When the outside rearview mirror warning light is not working properly, the 'Check outside mirror warning icon' warning message will appear on the instrument cluster for several seconds, and the master  warning light will illuminate on the cluster. If this occurs, we recommend that the vehicle be inspected by an authorised HYUNDAI dealer.

### ***Rear Cross-Traffic Collision-Avoidance Assist disabled***



When the rear bumper around the rear-side radar or sensor is covered with foreign material, such as snow or rain, or installing a trailer or carrier, it can reduce the detecting performance and temporarily limit or disable Rear Cross-Traffic Collision-Avoidance Assist.

If this occurs, the 'Rear cross-traffic safety functions disabled. Radar blocked' warning message will appear on the instrument cluster.

Rear Cross-Traffic Collision-Avoidance Assist will operate properly when such foreign material or trailer, etc., is removed.

If Rear Cross-Traffic Collision-Avoidance Assist does not operate properly after it is removed, we recommend that the vehicle be inspected by a HYUNDAI authorised repairer.

 **WARNING**

- Even though the warning message does not appear on the instrument cluster, Rear Cross-Traffic Collision-Avoidance Assist may not operate properly.
- Rear Cross-Traffic Collision-Avoidance Assist may not operate properly in an area (for example, open terrain), where no sub-stances are detected after turning ON the engine.

 **CAUTION**

Turn off Rear Cross-Traffic Collision-Avoidance Assist to install or remove a trailer, carrier, or another attachment. Turn on Rear Cross-Traffic Collision-Avoidance Assist when finished.

***Limitations of Rear Cross-Traffic Collision-Avoidance Assist***

Rear Cross-Traffic Collision-Avoidance Assist may not operate properly, or it may operate unexpectedly under the following circumstances:

- Departing from where trees or grass are overgrown
- Departing from where roads are wet
- Speed of the approaching vehicle is fast or slow

Braking control may not work, driver's attention is required in the following circumstances:

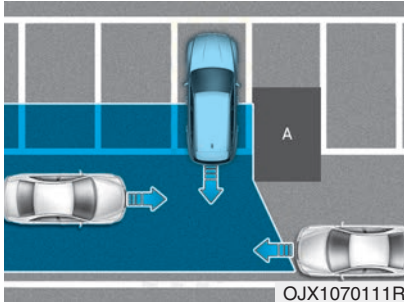
- The vehicle severely vibrates whilst driving over a bumpy road, uneven road or concrete patch
- Driving on a slippery surface due to snow, water puddle, ice, etc.
- The tyre pressure is low or a tyre is damaged
- The braking system has been modified
- Remote Smart Parking Assist is operating (if equipped)

 **Information**

For more details on the limitations of the rear corner radar, refer to “Blind-Spot Collision-Avoidance Assist (BCA)” section in this chapter.

## ⚠ WARNING

- Driving near a vehicle or structure



[A] : Structure

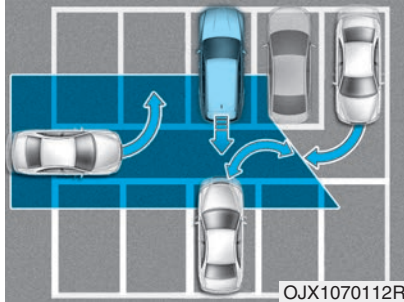
Rear Cross-Traffic Collision-Avoidance Assist may be limited when driving near a vehicle or structure, and may not detect the vehicle approaching from the left or right. If this occurs, the function may not warn the driver or control the brakes when necessary.

Always check your surroundings whilst backing up.

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- When the vehicle is in a complex parking environment



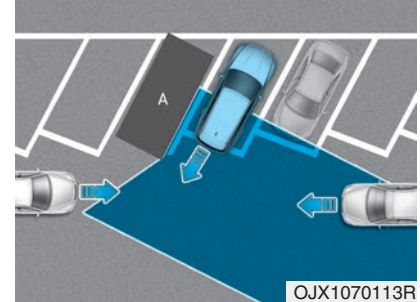
Rear Cross-Traffic Collision-Avoidance Assist may detect vehicles which are parking or pulling out near your vehicle (for example, a vehicle leaving beside your vehicle, a vehicle parking or pulling out in the rear area, a vehicle approaching your vehicle making a turn, etc.). If this occurs, the function may unnecessarily warn the driver and control the brake.

Always check your surroundings whilst reversing.

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- When the vehicle is parked diagonally



[A] : Vehicle

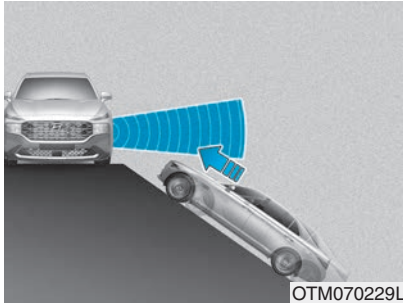
Rear Cross-Traffic Collision-Avoidance Assist may be limited when reversing diagonally, and may not detect the vehicle approaching from the left or right. If this occurs, the function may not warn the driver or control the brakes when necessary.

Always check your surroundings whilst reversing.

(Continued)

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- When the vehicle is on or near a slope



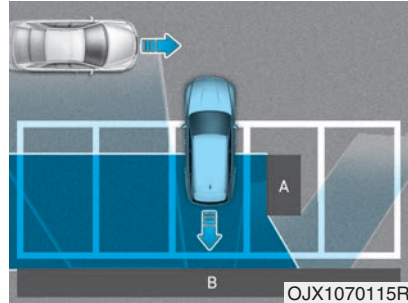
Rear Cross-Traffic Collision-Avoidance Assist may be limited when the vehicle is on an uphill or downhill slope, or near it, and may not detect the vehicle approaching from the left or right. If this occurs, the function may not warn the driver or control the brakes when necessary.

Always check your surroundings whilst reversing.

(Continued)

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- Pulling into the parking space where there is a structure



[A] : Structure, [B] : Wall

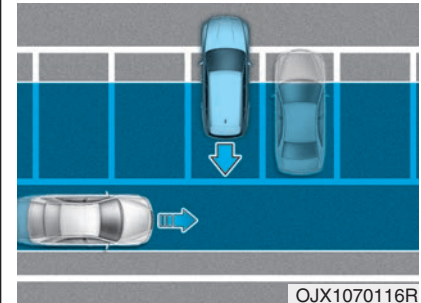
Rear Cross-Traffic Collision-Avoidance Assist may detect vehicles passing by in front of you when parking in reverse into a parking space with a wall or structure in the rear or side area. If this occurs, the function may unnecessarily warn the driver and control the brake.

Always check your surroundings whilst reversing.

(Continued)

(Continued)

- When the vehicle is parked rearward



Rear Cross-Traffic Collision-Avoidance Assist may detect vehicles passing by behind you when reversing into a parking space. If this occurs, the function may unnecessarily warn the driver and control the brake.

Always check your surroundings whilst reversing.

## **WARNING**

- When you are towing a trailer or another vehicle, we recommend that **Rear Cross-Traffic Collision-Avoidance Assist** is turned off for safety reasons.
- **Rear Cross-Traffic Collision-Avoidance Assist** may not operate properly if interfered by strong electromagnetic waves.
- **Rear Cross-Traffic Collision-Avoidance Assist** may not operate for 3 seconds after the vehicle is started, or the rear corner radars are initialised.



## REVERSE PARKING DISTANCE WARNING (PDW)

Reverse Parking Distance Warning can help warn the driver if an obstacle is detected within a certain distance when the vehicle is moving in reverse at low speeds.

### *Detecting sensor*

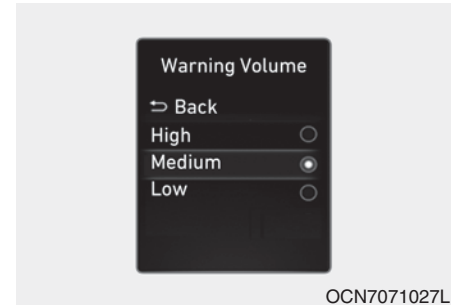


[1] : Rear ultrasonic sensors

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

## Reverse Parking Distance Warning settings

### *Warning Volume*

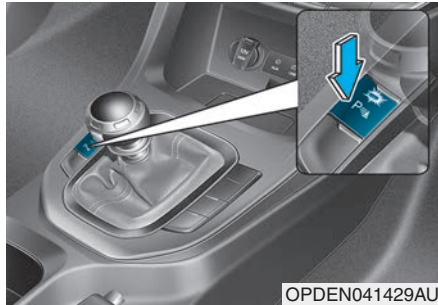


With the engine on, select 'Driver Assistance → Warning Volume' from the Settings menu to change the Warning Volume to 'High', 'Medium' or 'Low' for Reverse Parking Distance Warning.

If you change the Warning Volume, the Warning Volume of other Driver Assistance systems may change.

## Reverse Parking Distance Warning operation

### Operating button



### Parking Distance Warning Off button

- Press the Parking Distance Warning Off (P $\Delta$ ) button to turn off Reverse Parking Distance Warning. Press the button again to turn on the function.
- When Reverse Parking Distance Warning is off (button indicator light on), if you shift the gear to R (Reverse), the function will automatically turn on.

### Reverse Parking Distance Warning

- Reverse Parking Distance Warning will operate when the gear is in R (Reverse).
- Reverse Parking Distance Warning helps detect a person, animal or object in the rear when the vehicle's rearward speed is below 6 mph (10 km/h).

- The corresponding indicator will illuminate whenever each ultrasonic sensor detects a person, animal or object in its sensing range. Also an audible warning will sound.
- When more than two objects are detected at the same time, the closest one will be warned with an audible warning.
- The shape of the indicator in the illustration may differ from the actual vehicle.

Distance from object	Warning indicator when driving backward	Warning sound
24-48 in. (60-120 cm)		Buzzer beeps intermittently
12-24 in. (30-60 cm)		Beeps more frequently
12 in. (within 30 cm)		Beeps continuously

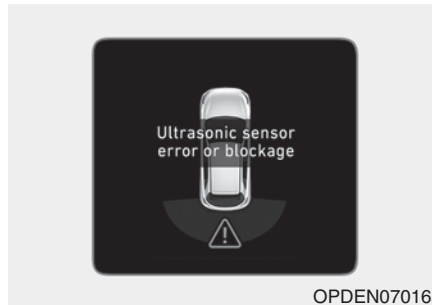
### Reverse Parking Distance Warning malfunction and limitations

#### **Reverse Parking Distance Warning malfunction**

After starting the engine, a beep will sound when the gear is shifted to R (Reverse) to indicate Reverse Parking Distance Warning is operating properly.

However, if one or more of the following occurs, first check whether the ultrasonic sensor is damaged or blocked with foreign material. If it still does not work properly, we recommend that the vehicle be inspected by a HYUNDAI authorised repairer.

- The audible warning does not sound.
- The buzzer sounds intermittently.
- The 'Ultrasonic sensor error or blockage' warning message appears on the instrument cluster.



#### **⚠ WARNING**

- **Reverse Parking Distance Warning is a supplemental function. The operation of the system can be affected by several factors (including environmental conditions). It is the responsibility of the driver to always check the rear view before and during reverse parking.**
- **Your new vehicle warranty does not cover any accidents or damage to the vehicle due to the malfunction of Reverse Parking Distance Warning.**
- **Pay close attention when driving near objects, pedestrians, and especially children. Some objects may not be detected by the ultrasonic sensors, due to their distance, size or material, all of which can limit the effectiveness of the sensor.**

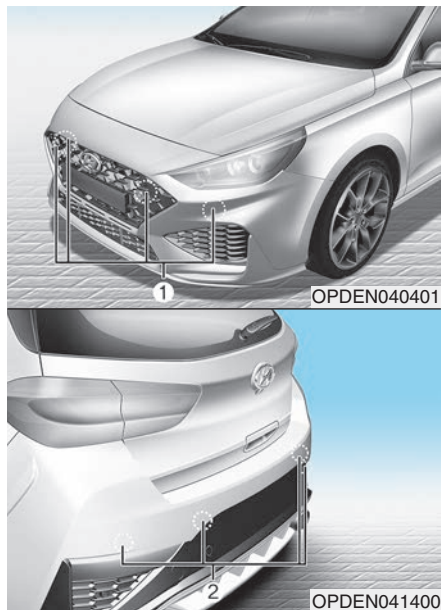
### **Limitations of Reverse Parking Distance Warning**

- Reverse Parking Distance Warning may not operate properly when:
  - Moisture is frozen to the sensor
  - Sensor is covered with substance, such as snow or water (Reverse Parking Distance Warning will operate properly when such foreign substance is removed.)
  - The weather is extremely hot or cold
  - The sensor or sensor assembly is disassembled
  - The surface of the sensor is pressed hard or hit with a hard object
  - The surface of the sensor is scratched with a sharp object
  - The sensors or its surrounding area is directly sprayed with high pressure washer
- Reverse Parking Distance Warning may malfunction when:
  - Heavy rain or water spray is present
  - Water flows on the surface of the sensor
  - Affected by another vehicle's sensors
  - The sensor is covered with snow or ice
  - Driving on uneven road, gravel roads or bushes
  - Objects that generates ultrasonic waves are near the sensor
  - License plate is installed in a different spot from the original location
  - The vehicle bumper height or ultrasonic sensor installation has been modified
  - Attaching equipment or accessories next to the ultrasonic sensors
- The following objects may not be detected:
  - Sharp or slim objects, such as ropes, chains or small poles.
  - Objects, which tend to absorb sensor frequency, such as clothes, spongy material or snow.
  - Objects smaller than 100 cm in length and narrower than 14 cm in diameter.
  - Pedestrians, animals or objects that are very close to the ultrasonic sensors
- Parking Distance Warning Indicators may be displayed differently from the actual detected location when the obstacle is located between the sensors.
- Parking Distance Warning indicator may not occur sequentially depending on vehicle speed or obstacle shape.
- If Reverse Parking Distance Warning needs repair, we recommend that the vehicle be inspected by a HYUNDAI authorised repairer.

## FORWARD/REVERSE PARKING DISTANCE WARNING (PDW)

Forward/Reverse Parking Distance Warning can help warn the driver if an obstacle is detected within a certain distance as the vehicle is moving forward or in reverse at low speeds.

### Detecting sensor



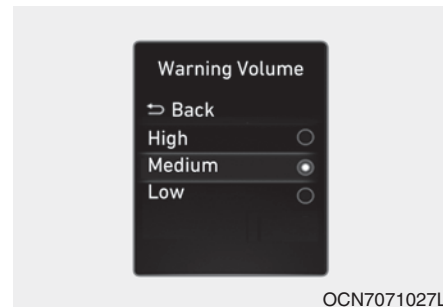
[1] : Front ultrasonic sensors,

[2] : Rear ultrasonic sensors

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

### Forward/Reverse Parking Distance Warning settings

#### Warning Volume



With the engine on, select 'Driver Assistance → Warning Volume' from the Settings menu to change the Warning Volume to 'High', 'Medium' or 'Low' for Forward/Reverse Parking Distance Warning.

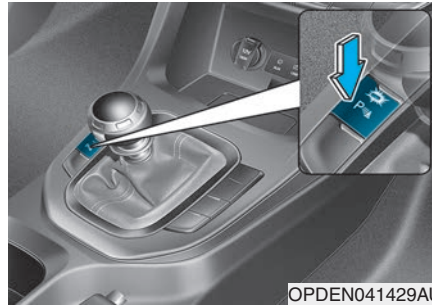
If you change the Warning Volume, the Warning Volume of other Driver Assistance systems may change.

## **Parking Distance Warning Auto On**

To use Parking Distance Warning Auto On function, select 'Driver Assistance → Parking Safety → Parking Distance Warning Auto On' from the instrument cluster or infotainment system Settings menu.

## **Forward/Reverse Parking Distance Warning operation**

### **Operating button**



### **Parking Safety button**




- Press the Parking Safety (P<sup>▲</sup>) button to turn on Forward/Reverse Parking Distance Warning. Press the button again to turn off the function.
- When Forward/Reverse Parking Distance Warning is off (button indicator light off), if you shift the gear to R (Reverse), the function will automatically turn on.

- When Forward/Reverse Parking Distance Warning turns on, the button indicator light will turn on. If vehicle speed is above 12 mph (20 km/h), Forward/Reverse Parking Distance Warning will turn off (button indicator light off).
- When the gear is in R (Reverse), Forward/Reverse Parking Distance Warning does not turn off even if the button is pressed.
- \* If equipped with Reverse Parking Collision-Avoidance Assist or Remote Smart Parking Assist, Forward/Reverse Parking Distance Warning will turn off (button indicator light off) when vehicle speed is above 18 mph (30 km/h).

### Forward Parking Distance Warning

- Forward Parking Distance Warning will operate when one of the conditions below are satisfied.
  - The gear is shifted from R (Reverse) to D (Drive) with Reverse Parking Distance Warning on
  - The gear is in D (Drive) and the Parking Safety (P<sub>VA</sub>) button indicator light is on
  - 'Parking Distance Warning Auto On' is selected from the Settings menu and the gear is in D (Drive)
- Forward Parking Distance Warning helps detect a person, animal or object in front when the vehicle's forward speed is below 6 mph (10 km/h).




- Forward Parking Distance Warning does not operate when the vehicle's forward speed is above 6 mph (10 km/h) even when the Parking Safety (P<sub>VA</sub>) button indicator is on. Forward Parking Distance Warning will operate again when the vehicle's forward speed decreases below 6 mph (10 km/h) whilst the Parking Safety (P<sub>VA</sub>) button indicator is on.
- When 'Parking Distance Warning Auto On' is selected, the Parking Safety (P<sub>VA</sub>) button indicator light stays on.
- When 'Parking Distance Warning Auto On' is deselected, and the vehicle's forward speed is above 18 mph (30 km/h), the Parking Safety (P<sub>VA</sub>) button indicator will turn off. Although you drive below 6 mph (10 km/h), Forward/Reverse Parking Distance Warning will not turn on.
- ※ If equipped with Reverse Parking Collision-Avoidance Assist or Remote Smart Parking Assist, Forward/Reverse Parking Distance Warning will turn off (button indicator light off) when vehicle speed is above 18 mph (30 km/h).

Distance from object	Warning indicator when driving forward	Warning sound
24-48 in. (60-120 cm)		Buzzer beeps intermittently
12-24 in. (30-60 cm)		Beeps more frequently
12 in. (within 30 cm)		Beeps continuously

- The corresponding indicator will illuminate whenever each ultrasonic sensor detects a person, animal or object in its sensing range. Also an audible warning will sound.
- When more than two objects are detected at the same time, the closest one will be warned with an audible warning.
- The shape of the indicator in the illustration may differ from the actual vehicle.

## **Reverse Parking Distance Warning**

- Reverse Parking Distance Warning will operate when the gear is in R (Reverse).
- Reverse Parking Distance Warning helps detect a person, animal or object in the rear when the vehicle's rearward speed is below 6 mph (10 km/h).

Distance from object	Warning indicator when driving backward	Warning sound
24-48 in. (60-120 cm)		Buzzer beeps intermittently
12-24 in. (30-60 cm)		Beeps more frequently
12 in. (within 30 cm)		Beeps continuously

- The corresponding indicator will illuminate whenever each ultrasonic sensor detects a person, animal or object in its sensing range. Also an audible warning will sound.
- When more than two objects are detected at the same time, the closest one will be warned with an audible warning.
- The shape of the indicator in the illustration may differ from the actual vehicle.

## **Forward/Reverse Parking Distance Warning malfunction and limitations**

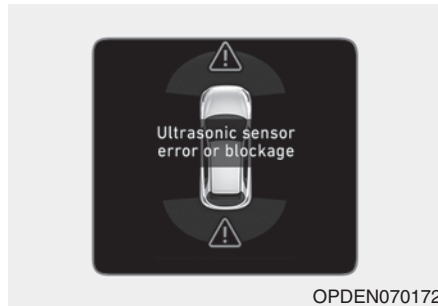
### **Forward/Reverse Parking Distance Warning malfunction**

After starting the engine, a beep will sound when the gear is shifted to R (Reverse) to indicate Forward/Reverse Parking Distance Warning is operating properly.

However, if one or more of the following occurs, first check whether the ultrasonic sensor is damaged or blocked with foreign material. If it still does not work properly, we recommend that the vehicle be inspected by a HYUNDAI authorised repairer.



- The audible warning does not sound.
- The buzzer sounds intermittently.
- The 'Ultrasonic sensor error or blockage' warning message appears on the instrument cluster.



### **⚠ WARNING**

- **Forward/Reverse Parking Distance Warning is a supplemental function. The operation of the system can be affected by several factors (including environmental conditions). It is the responsibility of the driver to always check the front and rear views before and whilst parking.**
- **Your new vehicle warranty does not cover any accidents or damage to the vehicle due to the mal-function of Reverse Parking Distance Warning.**
- **Pay close attention when driving near objects, pedestrians, and especially children. Some objects may not be detected by the ultrasonic sensors, due to their distance, size or material, all of which can limit the effectiveness of the sensor.**

### ***Limitations of Forward/Reverse Parking Distance Warning***

- Forward/Reverse Parking Distance Warning may not operate properly when:
  - Moisture is frozen to the sensor
  - Sensor is covered with substance, such as snow or water (The system will operate properly when such foreign substance is removed.)
  - The weather is extremely hot or cold
  - The sensor or sensor assembly is disassembled
  - The surface of the sensor is pressed hard or hit with a hard object
  - The surface of the sensor is scratched with a sharp object
  - The sensors or its surrounding area is directly sprayed with high pressure washer

- Forward/Reverse Parking Distance Warning may malfunction when:
  - Heavy rain or water spray is present
  - Water flows on the surface of the sensor
  - Affected by another vehicle's sensors
  - The sensor is covered with snow or ice
  - Driving on uneven road, gravel roads or bushes
  - Objects that generates ultrasonic waves are near the sensor
  - License plate is installed in a different spot from the original location
  - The vehicle bumper height or ultrasonic sensor installation has been modified
  - Attaching equipment or accessories next to the ultrasonic sensors
- The following objects may not be detected:
  - Sharp or slim objects, such as ropes, chains or small poles.
  - Objects, which tend to absorb sensor frequency, such as clothes, spongy material or snow.
  - Objects smaller than 40 in. (100 cm) in length and narrower than 6 in. (14 cm) in diameter.
  - Pedestrians, animals or objects that are very close to the ultrasonic sensors
- Parking Distance Warning Indicators may be displayed differently from the actual detected location when the obstacle is located between the sensors.
- Parking Distance Warning indicator may not occur sequentially depending on vehicle speed or obstacle shape.
- If Forward/Reverse Parking Distance Warning needs repair, we recommend that the vehicle be inspected by a HYUNDAI authorised repairer.

## DECLARATION OF CONFORMITY (IF EQUIPPED)

### The radio frequency components (Rear Corner Radar) complies (If equipped):

#### ■ For Europe and CE certified countries

In the user manual :

Hereby, Hella KGaA Hueck & Co. Declares that the radio equipment type RS4 is in compliance with Directive 2014/53/EU.

The full text of the EU declaration of conformity is available at the following internet address:  
[www.hella.com/hyundai](http://www.hella.com/hyundai)

Technical information:

Frequency range: 24.05 ... 24.25 GHz

Transmission power: 20 dBm (maximum) EIRP

Manufacturer and Address:

Hella KGaA Hueck & Co.  
Rixbecker Straße 75, 59552 Lippstadt,  
Germany

OANATEL115

#### ■ For Taiwan

電信法第 48 條、低功率電波輻射性電機管理辦法

第十二條

經型式認證合格之低功率射頻電機，非經許可，公司、商號或使用者均不得擅自變更頻率、加大功率或變更原設計之特性及功能。

第十四條

低功率射頻電機之使用不得影響飛航安全及干擾合法通信；經發現有干擾現象時，應立即停用，並改善至無干擾時方得繼續使用。前項合法通信，指依電信法規定作業之無線電通信。低功率射頻電機須忍受合法通信或工業、科學及醫療用電波輻射性電機設備之干擾。

Article 12

Without permission, any company, firm or user shall not alter the frequency, increase the power, or change the characteristics and functions of the original design of the certified lower power frequency electric machinery.

Article 14

The application of low power frequency electric machineries shall not affect the navigation safety nor interface a legal communication, if an interference is found, the service will be suspended until improvement is made and the interference no longer exist.

OANATEL005

#### ■ For Indonesia

54473/SDPPI/2018  
6051

OANATEL006

#### ■ For Malaysia



OANATEL007

#### ■ For Singapore

Complies with  
IMDA Standards  
DA 103238

OANATEL008

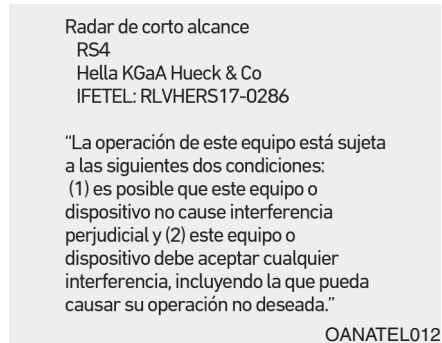
## ■ For Vietnam



## ■ For Brazil



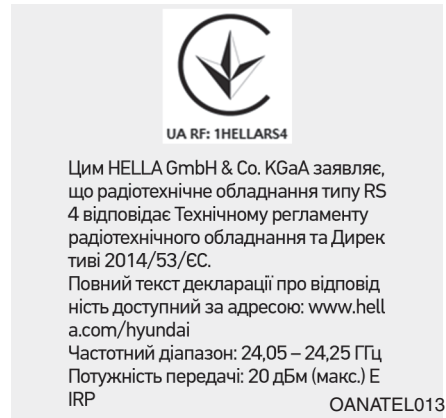
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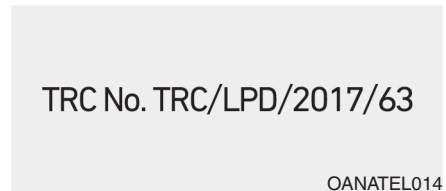
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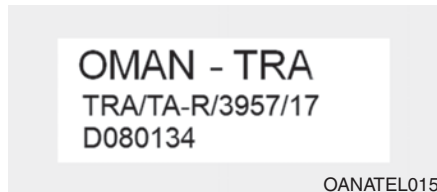
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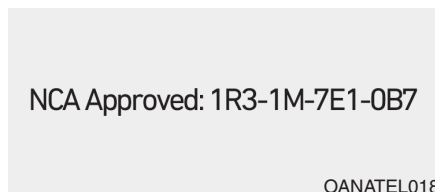
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■ For Oman



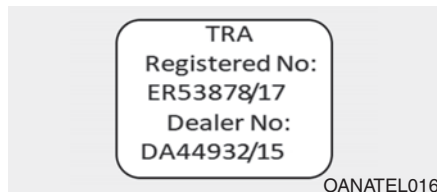
■ For Ghana



■ For Paraguay



■ For UAE



■ For Zambia



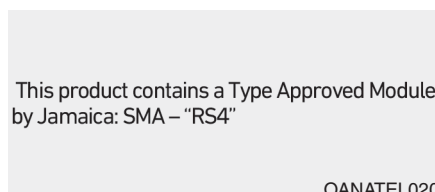
■ For Uzbekistan



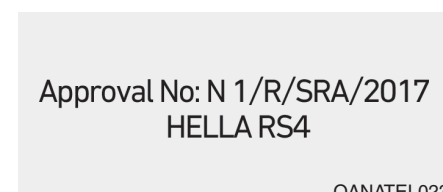
■ For Botswana



■ For Jamaica



■ For Mozambique



## ■ For South Korea

1. 상호 : HELLA KGAA HUECK & CO.
2. 기기명칭 및 모델명  
- 기기명칭: 물체감지센서용 무선기기(24GHz 주파수대를 사용하는 기기)  
- 모델명: RS4
3. 제조자 및 제조국가  
- 제조자: HELLA KGAA HUECK & CO.  
- 제조국가: 독일, 미국, 중국, 한국

OANATEL393

## ■ For Israel

הגדרות: "אישור מיוחד" - מס' 54-11572, שחור ציוד קשר אלחוטית שהפיקה

מס' אישור: 51127939 מס' רישום: 01/06/2019

מס' רישום	תאריך	שם	מדינה
51127939	01/06/2019	HELLA	גרמניה

התאריך: 01/06/2019. אלה הם הפרטים המצויים בפרטורי התקשורת.

אין להחזיר כל ציוד המיועד לשימוש בתחומי הרשות המסוימת. ללא אישור מיוחד ובמכתב מס' 54-11572.

הגדרות: ALARM-SIRE (אישור מס' 24.05-24.25GHz (PWR:24mW, B.W:150.80MHz, Mod:FMCW) שחור יחידה FCC ID:NBG01R54

החומר מיועד לשימוש: א. אישור מיוחד על המס' 01/06/2019. ב. מיקום המכשיר יחידה, הפקיד את כל נתני היחידה של המודל המוצג, הפסק שיחודי, הרחבת, רישום, מס' 54-11572 על דגם.

אין אישור יחידה זה נכון להגדרות המוצגות.

החומר מיועד לשימוש: א. אישור מיוחד על המס' 01/06/2019. ב. מיקום המכשיר יחידה, הפקיד את כל נתני היחידה של המודל המוצג, הפסק שיחודי, הרחבת, רישום, מס' 54-11572 על דגם.

OANATEL407

## ■ For Thailand

nab. ทรูเนชั่น

เครื่องวิทยุคมนาคมนี้ได้รับยกเว้น ไม่ต้องได้รับใบอนุญาตให้มี ใช้ซึ่งเครื่องวิทยุคมนาคมหรือตั้งสถานีวิทยุคมนาคมตามประกาศ กสทช. เรื่อง เครื่องวิทยุคมนาคม และสถานีวิทยุคมนาคมที่ได้รับยกเว้นไม่ต้องได้รับใบอนุญาตวิทยุคมนาคม ตามพระราชบัญญัติวิทยุคมนาคม พ.ศ. 2498

Call Center 1200 (Inswifi)

OANATEL408

## ■ For United Kingdom

Hereby, Hella GmbH & Co. KGaA declares that the radio equipment type: RS4 is in compliance with Radio Equipment Regulations of the United Kingdom. The full text of the United Kingdom declaration of conformity is available at the following internet address: [www.hella.com/hyundai](http://www.hella.com/hyundai)

Technical information:  
Frequency band: 24.05 ... 24.25 GHz  
Transmission power: 20 dBm (max) EIRP

Manufacturer and Address:  
Hella GmbH & Co. KGaA  
Rixbecker Straße 75, 59552 Lippstadt, Germany

Importer name and Address:

OANATEL409

## SPECIAL DRIVING CONDITIONS

### Hazardous driving conditions

When hazardous driving elements are encountered such as water, snow, ice, mud and sand, take the following precautions:

- Drive cautiously and maintain a longer braking distance.
- Avoid abrupt braking or steering.
- When your vehicle is stuck in snow, mud, or sand, use the second gear. Accelerate slowly to avoid unnecessary wheel spinning.
- Put sand, rock salt, tyre chains or other non-slip materials under the wheels to provide additional traction whilst being stuck in ice, snow, or mud.

### Rocking the vehicle

If it is necessary to rock the vehicle to free it from snow, sand, or mud, first turn the steering wheel right and left to clear the area around your front wheels. Then, shift back and forth between R (Reverse) and a forward gear.

Try to avoid spinning the wheels, and do not race the engine.

To prevent transmission wear, wait until the wheels stop spinning before shifting gears. Release the accelerator pedal whilst shifting, and press lightly on the accelerator pedal whilst the transmission is in gear. Slowly spinning the wheels in forward and reverse directions causes a rocking motion that may free the vehicle.

### WARNING

**If the vehicle is stuck and excessive wheel spin occurs, the temperature in the tyres can increase very quickly. If the tyres become damaged, a tyre blow out or tyre 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 tyres or the engine. DO NOT allow the vehicle to spin the wheels above 35 mph (56 km/h).**

## **i** Information

The ESC system (if equipped) must be turned OFF before rocking the vehicle.

### **NOTICE**

**If you are still stuck after rocking the vehicle a few times, have the vehicle pulled out by a tow vehicle to avoid engine overheating, possible damage to the transmission, and tyre 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 drivers' headlamps.
- Keep your headlamps clean and properly aimed. Dirty or improperly aimed headlamps will make it much more difficult to see at night.
- Avoid staring directly at the headlamps of oncoming vehicles. You could be temporarily blinded, and it will take several seconds for your eyes to readjust to the darkness.

## Driving in the rain

Rain and wet roads can make driving dangerous. Here are a few things to consider when driving in the rain or on slick pavement:

- Slow down and allow extra following distance. A heavy rainfall makes it harder to see and increases the distance needed to stop your vehicle.
- Turn OFF your Cruise Control. (if equipped)
- Replace your windscreen wiper blades when they show signs of streaking or missing areas on the windscreen.
- Be sure your tyres have enough tread. If your tyres do not have enough tread, making a quick stop on wet pavement can cause a skid and possibly lead to an accident. **See "Tyre 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 whilst 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 tyre tread decreases, refer to "Tyre 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 whilst the vehicle is moving slowly.

### **Highway driving**

#### **Tyres**

Adjust the tyre inflation, as specified. Under-inflation may overheat or damage the tyres.

Do not install worn-out or damaged tyres, which may reduce traction or fail the braking operation.

#### **Information**

**Never over-inflate your tyres above the maximum inflation pressure, as specified on your tyres.**

### ***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 tyres and cause other problems. To minimise 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 skids to occur.

To drive your vehicle in deep snow, it may be necessary to use snow tyres or to install tyre chains on your tyres.

Always carry emergency equipment. Some of the items you may want to carry include tyre 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 tyres

#### WARNING

**Snow tyres should be equivalent in size and type to the vehicle's standard tyres. Otherwise, the safety and handling of your vehicle may be adversely affected.**

We recommend you use snow tyres when road temperature is below 7°C (45°F). Refer to the below chart, and mount the recommended snow tyre for your vehicle.

Standard tyre		Recommended snow tyre	
Tyre size	Wheel size	Tyre size	Wheel size
225/40ZR18	7.5Jx18	225/40R18	7.5Jx18
235/35R19	8.0Jx19		

If you mount snow tyres on your vehicle, make sure to use the same inflation pressure as the original tyres. Mount snow tyres on all four wheels to balance your vehicle's handling in all weather conditions. The traction provided by snow tyres on dry roads may not be as high as your vehicle's original equipment tyres. Check with the tyre dealer for maximum speed recommendations.

### **i** Information

**Do not install studded tyres without first checking local and municipal regulations for possible restrictions against their use.**

### **Summer tyres**

- Summer tyres are used to maximise the driving performance on dry roads.
- If the temperature is below 7°C or you are driving on snowy or icy roads, the summer tyres lose their brake performance and traction as the tyre grip weakens significantly.
- If the temperature is below 7°C or you are driving on snowy or icy roads, mount snow tyres or all-season tyres of the same size with your vehicle's standard tyre for safe driving. Both snow and all-season tyres have M+S markings.
- When using the M+S tyres, use tyres with the same tread produced by the same manufacturer for safe driving.
- When driving with the M+S tyres with the lower maximum allowable speed than that of the vehicle's standard summer tyre, be careful not to exceed the speed allowed for the M+S tyres.

### **Tyre chains**



Since the sidewalls of radial tyres are thinner than other types of tyres, they may be damaged by mounting some types of tyre chains on them. Therefore, the use of snow tyres is recommended instead of tyre chains. Do not mount tyre chains on vehicles equipped with aluminium wheels; if possible use a wire type chain. If tyre chains must be used, use genuine HYUNDAI parts and install the tyre chain after reviewing the instructions provided with the tyre chains. Damage to your vehicle caused by improper tyre chain use is not covered by your vehicle manufacturer's warranty.

## NOTICE

If your vehicle has 235/35R19 size tyres, do not use tyre chain; they can damage your vehicle (wheel, suspension and body).

## WARNING

The use of tyre 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 tyre chains on the front tyres. It should be noted that installing tyre chains on the tyres will provide a greater driving force, but will not prevent side skids.
- Do not install studded tyres without first checking local and municipal regulations for possible restrictions against their use.

## Chain Installation

When installing tyre 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 tyre 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 tyre 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 tyre chains on vehicles equipped with aluminium 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. 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

Winter temperatures affect battery performance. **Inspect the battery and cables, as specified in the chapter 7.** The battery charging level can be checked by a HYUNDAI authorised repairer 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 a HYUNDAI authorised repairer.

#### Check spark plugs and ignition system

**Inspect the spark plugs, as specified in 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 authorised window washer anti-freeze solution, as specified on the window washer container. Window washer anti-freeze solution is available from a HYUNDAI authorised repairer, and 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 1st gear when the vehicle is parked on a uphill and in R (Reverse) on a downhill. Also, block the rear wheels in advance, so the vehicle may not roll. Then, release the parking brake.

### **Do not let ice and snow accumulate underneath**

Under some conditions, snow and ice can build up under the fenders and interfere with the steering. When driving in such conditions during the severe winter, you should check underneath the vehicle on a regular basis, to ensure that the front wheels and the steering components is unblocked.

### **Carry emergency equipment**

In accordance with weather conditions, you should carry appropriate emergency equipment, whilst driving. Some of the items you may want to carry include tyre 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 they may block the engine cooling. Such damage will not be covered by the manufacturer's warranty.

### **Drive your vehicle when water vapour condenses and accumulates inside the exhaust pipes**

When the vehicle is stopped for a long time in winter whilst the engine is running, water vapour may condense and accumulate inside the exhaust pipes. Water in the exhaust pipes may cause noise, etc., but it is drained driving at medium to high speed.

## TRAILER TOWING

If you are considering to tow with your vehicle, you should first your country's legal requirements. As laws vary the requirements for towing trailers, cars, or other types of vehicles or apparatus may differ. Ask a HYUNDAI authorised repairer for further details before towing.

Remember that trailering is different than just driving your vehicle by itself. Trailering means changes in handling, durability, and fuel economy. Successful, safe trailering requires correct equipment, and it has to be used properly. Damage to your vehicle caused by improper trailer towing is not covered by your vehicle manufacturer's warranty.

This section contains many time-tested, important trailering tips and safety rules. Many of these are important for your safety and that of your passengers. Please read this section carefully before you pull a trailer.

### WARNING

**Take the following precautions:**

- **If you don't use the correct equipment and/or drive improperly, you can lose control of the vehicle when you are pulling a trailer. For example, if the trailer is too heavy, the braking performance may be reduced. You and your passengers could be seriously or fatally injured. Pull a trailer only if you have followed all the steps in this section.**
- **Before towing, make sure the total trailer weight, GCW (Gross Combination Weight), GVW (Gross Vehicle Weight), GAW (Gross Axle Weight) and trailer tongue load are all within the limits.**
- **When you tow a trailer, make sure to turn off the ISG system.**

### Information

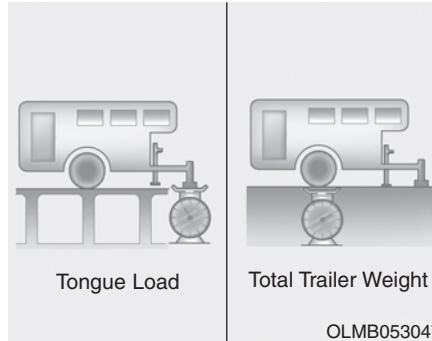
- **The technically permissible maximum load on the rear axle(s) may be exceeded by not more than 15 % and the technically permissible maximum laden mass of the vehicle may be exceeded by not more than 10% or 220.4 lbs (100 kg), whichever value is lower. In this case, do not exceed 100 km/h (62.1 mph) for vehicle of category M1 or 80 km/h (49.7 mph) for vehicle of category N1.**
- **When a vehicle of category M1 is towing a trailer, the additional load imposed at the trailer coupling device may cause the tyre maximum load ratings to be exceeded, but not by more than 15%. In this case, do not exceed 62.1 mph (100 km/h) and increase the tyre inflation pressure by at least 0.2 bar.**

## If you decide to pull a trailer?

Here are some important points if you decide to pull a trailer:

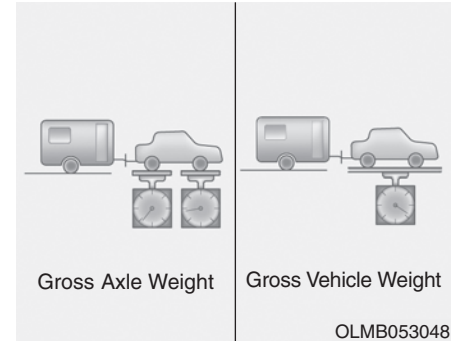
- Consider using a sway control. You can ask a trailer towbar dealer about sway control.
- Do not do any towing with your vehicle during its first 1,200 miles (2,000 km) in order to allow the engine to properly break in. Failure to heed this caution may result in serious engine or transmission damage.
- When towing a trailer, be sure to consult a HYUNDAI authorised repairer for further information on additional requirements such as a towing kit, etc.
- Always drive your vehicle at a moderate speed (less than 60 mph (100 km/h)) or posted towing speed limit.
- On a long uphill grade, do not exceed 45 mph (70 km/h) or the posted towing speed limit, whichever is lower.
- Carefully observe the weight and load limits provided in the following pages.

## Trailer weight



What is the maximum safe weight of a trailer? It should never weigh more than the maximum trailer weight with trailer brakes. But even that can be too heavy. It depends on how you plan to use your trailer. For example, speed, altitude, road grades, outside temperature and how often your vehicle is used to pull a trailer are all important. The ideal trailer weight can also depend on any special equipment that you have on your vehicle.

## Tongue load



The tongue load is an important weight to measure because it affects the total Gross Vehicle Weight (GVW) of your vehicle. The trailer tongue should weigh a maximum of 10% of the total loaded trailer weight, within the limits of the maximum trailer tongue load permissible.

After you've loaded your trailer, weigh the trailer and then the tongue, separately, to see if the weights are proper. If they aren't, you may be able to correct them simply by moving some items around in the trailer.



**⚠ WARNING**

Take the following precautions:

- Never load a trailer with more weight in the rear than in the front. The front should be loaded with approximately 60% of the total trailer load; the rear should be loaded with approximately 40% of the total trailer load.
- Never exceed the maximum weight limits of the trailer or trailer towing equipment. Improper loading can result in damage to your vehicle and/or personal injury. Check weights and loading at a commercial scale or highway patrol office equipped with scales.

**i Information**

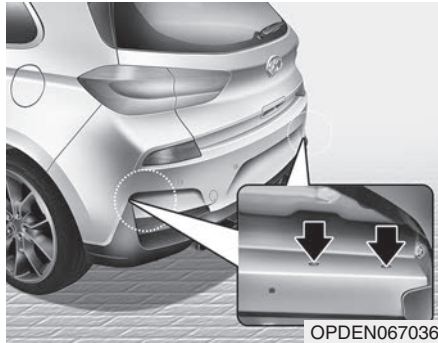
With increasing altitude the engine performance decreases. From 1,000 m above sea level and for every 1,000 m thereafter 10% of vehicle/trailer weight (trailer weight + gross vehicle weight) must be deducted.

**Reference weight and distance when towing a trailer**

Item		2.0 T-GDI
Maximum trailer weight kg (lbs.)	With brake system	1600 (3527)
	Without brake system	700 (1543)
Maximum permissible static vertical load on the coupling device kg (lbs.)		75 (165)
Recommended distance from rear wheel centre to coupling point mm (inch)	5 Door	860 (33.9)
	Fastback	975 (38.34)

## Trailer towing equipment

### Towbars



### **i** Information

The mounting hole for towbars are located on both sides of the underbody behind the rear tyres.

It's important to have the correct towbar equipment. Crosswinds, large trucks going by, and rough roads are a few reasons why you'll need the right towbar. Here are some rules to follow:

- Do you have to make any holes in the body of your vehicle when you install a trailer towbar? If you do, then be sure to seal the holes later when you remove the towbar. If you don't seal them, carbon monoxide (CO) from your exhaust can get into your vehicle, as well as dirt and water.
- The bumpers on your vehicle are not intended for towbars. Do not attach rental towbars or other bumper-type towbars to them. Use only a frame-mounted towbar that does not attach to the bumper.
- A HYUNDAI trailer towbar accessory is available at a HYUNDAI authorised repairer.

### **Safety chains**

You should always attach chains between your vehicle and your trailer. Instructions about safety chains may be provided by the towbar manufacturer or trailer manufacturer. Follow the manufacturer's recommendation for attaching safety chains. Always leave just enough slack so you can turn with your trailer. And, never allow safety chains to drag on the ground.

### **Trailer brakes**

If your trailer is equipped with a braking system, make sure it conforms to your country's regulations and that it is properly installed and operating correctly.

If your trailer weighs more than the maximum trailer weight without trailer brakes loaded, then it needs its own brakes and they must be adequate. Be sure to read and follow the instructions for the trailer brakes so you'll be able to install, adjust and maintain them properly. Be sure not to modify your vehicle's brake system.

#### **⚠ WARNING**

**Do not use a trailer with its own brakes unless you are absolutely certain that you have properly set up the brake system. This is not a task for amateurs. Use an experienced, competent trailer shop for this work.**

### **Driving with a trailer**

Towing a trailer requires a certain amount of experience. Before setting out for the open road, you must get to know your trailer. Acquaint yourself with the feel of handling and braking with the added weight of the trailer. And always keep in mind that the vehicle you are driving is now longer and not nearly as responsive as your vehicle is by itself.

Before you start, check the trailer towbar and platform, safety chains, electrical connector(s), lights, tyres and brakes.

During your trip, occasionally check to be sure that the load is secure, and that the lights and trailer brakes are still working.

### **Distance**

Stay at least twice as far behind the vehicle ahead as you would when driving your vehicle without a trailer. This can help you avoid situations that require heavy braking and sudden turns.

### **Passing**

You will need more passing distance up ahead when you're towing a trailer. And, because of the increased vehicle length, you'll need to go much farther beyond the passed vehicle before you can return to your lane.

### **Backing up**

Hold the bottom of the steering wheel with one hand. Then, to move the trailer to the left, move your hand to the left. To move the trailer to the right, move your hand to the right. Always back up slowly and, if possible, have someone guide you.

### **Making turns**

When you're turning with a trailer, make wider turns than normal. Do this so your trailer won't strike soft shoulders, kerbs, road signs, trees, or other objects. Avoid jerky or sudden manoeuvres. Signal well in advance.

### **Turn signals**

When you tow a trailer, your vehicle has to have a different turn signal flasher and extra wiring. The green arrows on your instrument panel will flash whenever you signal a turn or lane change. Properly connected, the trailer lights will also flash to alert other drivers you're about to turn, change lanes, or stop.

When towing a trailer, the green arrows on your instrument panel will flash for turns even if the bulbs on the trailer are burned out. Thus, you may think drivers behind you are seeing your signals when, in fact, they are not. It's important to check occasionally to be sure the trailer bulbs are still working. You must also check the lights every time you disconnect and then reconnect the wires.

#### **WARNING**

**Do not connect a trailer lighting system directly to your vehicle's lighting system. Use an approved trailer wiring harness. Failure to do so could result in damage to the vehicle electrical system and/or personal injury. Consult a HYUNDAI authorised repairer for assistance.**

### **Driving on hills**

Reduce speed and shift to a lower gear before you start down a long or steep downgrade. If you don't shift down, you might have to use your brakes so much that they would get overheated and may not operate efficiently.

On a long uphill grade, shift down and reduce your speed to around 45 mph (70 km/h) to reduce the possibility of engine and transmission overheating.

**NOTICE**

To prevent engine and/or transmission overheating:

- When towing a trailer on steep grades (in excess of 6%) pay close attention to the engine coolant temperature gauge to ensure the engine does not overheat. If the needle of the coolant temperature gauge moves towards "130", pull over and stop as soon as it is safe to do so, and allow the engine to idle until it cools down. You may proceed once the engine has cooled sufficiently.
- If you tow a trailer with the maximum gross vehicle weight and maximum trailer weight, it can cause the engine or transmission to overheat. When driving in such conditions, allow the engine to idle until it cools down. You may proceed once the engine or transmission has cooled sufficiently.

(Continued)

(Continued)

- When towing a trailer, your vehicle speed may be much slower than the general flow of traffic, especially when climbing an uphill grade. Use the right hand lane when towing a trailer on an uphill grade. Choose your vehicle speed according to the maximum posted speed limit for vehicles with trailers, the steepness of the grade, and your trailer weight.

***Parking on hills***

Generally, if you have a trailer attached to your vehicle, you should not park your vehicle on a hill.

However, if you ever have to park your trailer on a hill, here's how to do it:

1. Pull the vehicle into the parking space.  
Turn the steering wheel in the direction of the kerb (left if headed down hill, right if headed up hill).
2. Shift the vehicle to neutral.
3. Set the parking brake and shut off the vehicle.
4. Place wheel chocks under the trailer wheels on the down hill side of the wheels.
5. Start the vehicle, hold the brakes, shift to neutral, release the parking brake and slowly release the brakes until the trailer chocks absorb the load.
6. Reapply the brakes and parking brakes.

7. Move the shift lever to 1st gear when the vehicle is parked on a uphill grade and in R (Reverse) on a downhill.
8. Shut off the vehicle and release the vehicle brakes but leave the parking brake set.

 **WARNING**

**To prevent serious or fatal injury:**

- **Do not get out of the vehicle without the parking brake firmly set. If you have left the engine running, the vehicle can move suddenly. You and others could be seriously or fatally injured.**
- **Do not apply the accelerator pedal to hold the vehicle on an uphill.**

***Ready to leave after parking on a hill***

1. With the shift lever in neutral, apply your brakes and hold the brake pedal down whilst you:
  - Start your engine;
  - Shift into gear; and
  - Release the parking brake.
2. Slowly remove your foot from the brake pedal.
3. Drive slowly until the trailer is clear of the chocks.
4. Stop and have someone pick up and store the chocks.

**Maintenance when towing a trailer**

Your vehicle will need service more often when you regularly pull a trailer. Important items to pay particular attention to include engine oil, automatic transmission fluid, axle lubricant and cooling system fluid. Brake condition is another important item to frequently check. If you're trailering, it's a good idea to review these items before you start your trip. Don't forget to also maintain your trailer and towbar. Follow the maintenance schedule that accompanied your trailer and check it periodically. Preferably, conduct the check at the start of each day's driving. Most importantly, all towbar nuts and bolts should be tight.

### **NOTICE**

To prevent vehicle damage:

- Due to higher load during trailer usage, overheating might occur on hot days or during uphill driving. If the coolant gauge indicates over-heating, switch off the air conditioner and stop the vehicle in a safe area to cool down the engine.
- Do not switch off the engine whilst the coolant gauge indicates over-heating.  
(Keep the engine idle to cool down the engine)
- If your vehicle is not equipped with an air conditioner, you should install a condenser fan to improve engine performance when towing a trailer.

## VEHICLE WEIGHT

Two labels on your driver's door sill show how much weight your vehicle was designed to carry: the Tyre 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 Kerb 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 Kerb 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 Kerb Weight, including cargo and optional equipment.

### GAW (Gross Axle Weight)

This is the total weight placed on each axle (front and rear) - including vehicle kerb 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 Kerb Weight plus actual Cargo Weight plus passengers.

### GVWR (Gross Vehicle Weight Rating)

This is the maximum allowable weight of the fully loaded vehicle (including all options, equipment, passengers and cargo). The GVWR is shown on the Certification Label located on the driver's door sill.

## Overloading

### WARNING

**The Gross Axle Weight Rating (GAWR) and the Gross Vehicle Weight Rating (GVWR) for your vehicle are on the Certification Label attached to the driver's (or front passenger's) door. Exceeding these ratings can cause an accident or vehicle damage. You can calculate the weight of your load by weighing the items (and people) before putting them in the vehicle. Be careful not to overload your vehicle.**

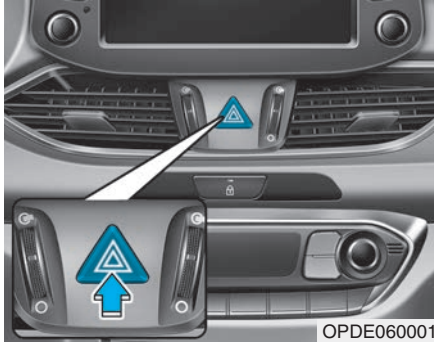




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## HAZARD WARNING FLASHER



The hazard warning flasher serves as a warning to other drivers to exercise extreme caution when approaching, overtaking, or passing your vehicle.

It should be used whenever emergency repairs are being made or when the vehicle is stopped near the edge of a roadway.

To turn the hazard warning flasher on or off, press the hazard warning flasher button with the ignition switch in any position. The button is located in the centre 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 WHILST DRIVING

### If the engine stalls whilst 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 engine again. If your vehicle will not start, we recommend that you contact a HYUNDAI authorised repairer.

### If the engine stalls at a cross-road or crossing

If the engine stalls at a crossroads 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 tyre whilst driving

If a tyre goes flat whilst you are driving:

- Take your foot off the accelerator pedal and let the vehicle slow down whilst 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, for dual clutch transmission vehicle) or neutral (for manual transmission vehicle), apply the parking brake, and place the ignition switch in the LOCK/ 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 tyre, follow the instructions provided later in this chapter.

## IF THE ENGINE WILL NOT START

### If the engine doesn't turn over or turns over slowly

- Be sure the shift lever is in N (Neutral) or P (Park) if it is a dual clutch transmission vehicle. The engine starts only when the shift lever is in N (Neutral) or 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, we recommend that you call a HYUNDAI authorised repairer for assistance.

## 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.

### 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.

(Continued)

(Continued)



Hydrogen is always present in battery cells, is highly combustible, and may explode if ignited.



Keep batteries out of reach of children.



Batteries contain sulfuric acid which is highly corrosive. Do not allow acid to contact your eyes, skin or clothing.

If acid gets into your eyes, flush your eyes with clean water for at least 15 minutes and get immediate medical attention. If acid gets on your skin, thoroughly wash the area. If you feel pain or a burning sensation, get medical attention immediately.

(Continued)

(Continued)

- 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 ignition switch is in the ON position.
- Do not allow the (+) and (-) jumper cables to touch. It may cause sparks.
- The battery may rupture or explode when you jump start with a low or frozen battery.

#### 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.

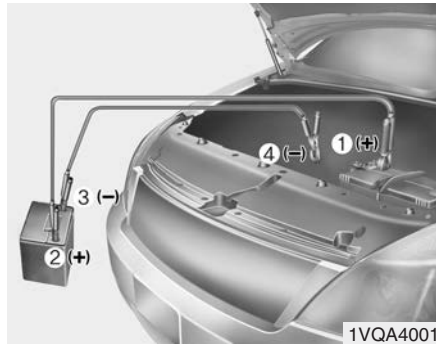
#### Information



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

#### *Jump starting procedure*

1. Position the vehicles close enough that the jumper cables will reach, but do not allow the vehicles to touch.
2. Avoid fans or any moving parts in the engine compartment at all times, even when the vehicles are turned off.
3. Turn off all electrical devices such as radios, lights, air conditioning, etc. Put the vehicles in P (Park, for dual clutch transmission vehicle) or neutral (for manual transmission vehicle), and set the parking brakes. Turn both vehicles OFF.



4. Connect the jumper cables in the exact sequence shown in the illustration. First connect one jumper cable to the red, positive (+) jumper terminal of your vehicle (1).
5. Connect the other end of the jumper cable to the red, positive (+) battery/jumper terminal of the assisting vehicle (2).
6. Connect the second jumper cable to the black, negative (-) battery/chassis ground of the assisting vehicle (3).

7. Connect the other end of the second jumper cable to the black, negative (-) chassis ground of your vehicle (4).

Do not allow the jumper cables to contact anything except the correct battery or jumper terminals or the correct ground. Do not lean over the battery when making connections.

8. 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 service. In this event please seek qualified assistance. If the cause of your battery discharging is not apparent, have your vehicle checked by a HYUNDAI authorised repairer.

Disconnect the jumper cables in the exact reverse order you connected them:

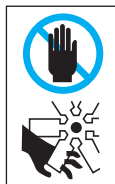
1. Disconnect the jumper cable from the black, negative (-) chassis ground of your vehicle (4).
2. Disconnect the other end of the jumper cable from the black, negative (-) battery/chassis ground of the assisting vehicle (3).
3. Disconnect the second jumper cable from the red, positive (+) battery/jumper 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 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. Pull off the road and stop as soon as it is safe to do so.
2. Place the shift lever in P (Park, for dual clutch transmission vehicle) or neutral (for manual transmission) and set the parking brake. If the air conditioning is ON, turn it OFF.
3. If engine coolant is running out under the vehicle or steam is coming out from the bonnet, stop the engine. Do not open the bonnet until the coolant has stopped running or the steaming has stopped. If there is no visible loss of engine coolant and no steam, leave the engine running and check to be sure the engine cooling fan is operating. If the fan is not running, turn the engine off.

### ⚠ WARNING



**Whilst the engine is running, keep hands, clothing and tools away from the moving parts such as the cooling fan and drive belt to prevent serious injury.**

4. Check for coolant leaking from the radiator, hoses or under the vehicle. (If the air conditioning had been in use, it is normal for cold water to be draining from it when you stop.)
5. If engine coolant is leaking out, stop the engine immediately and we recommend that you call a HYUNDAI authorised repairer for assistance.

### ⚠ WARNING



**NEVER** remove the radiator cap or the drain plug whilst 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 radiator cap. Wrap a thick towel around it, and turn it counterclockwise slowly to the first stop. Step back whilst 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.



- 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, we recommend that you call a HYUNDAI authorised repairer for assistance.



### CAUTION

- **Serious loss of coolant indicates a leak in the cooling system and we recommend the system be checked by a HYUNDAI authorised repairer.**
- **When the engine overheats from low engine coolant, suddenly adding engine coolant may cause cracks in the engine. To prevent damage, add engine coolant slowly in small quantities.**

## TYRE PRESSURE MONITORING SYSTEM (TPMS) (IF EQUIPPED)



- (1) Low Tyre Pressure Telltale/ TPMS Malfunction Indicator
- (2) Low tyre pressure position telltale and tyre pressure telltale (Shown on the LCD display)

### Check tyre pressure



- You can check the tyre pressure in the Assist mode on the cluster.
- **Refer to the "LCD Display Modes" in chapter 3.**
- Tyre pressure is displayed after a few minutes of driving after initial engine start up.
- If tyre pressure is not displayed when the vehicle is stopped, "Drive to display" message will appear. After driving, check the tyre pressure.

- The displayed tyre pressure values may differ from those measured with a tyre pressure gauge.
- You can change the tyre pressure unit in the User Settings mode on the instrument cluster.
  - psi, kpa, bar (**Refer to "LCD Modes" in chapter 3**).

## Tyre pressure monitoring system

### WARNING

**Over-inflation or under-inflation can reduce tyre life, adversely affect vehicle handling, and lead to sudden tyre failure that may cause loss of vehicle control resulting in an accident.**

Each tyre, 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 tyre inflation pressure label. (If your vehicle has tyres of a different size than the size indicated on the vehicle placard or tyre inflation pressure label, you should determine the proper tyre inflation pressure for those tyres.)

As an added safety feature, your vehicle has been equipped with a tyre pressure monitoring system (TPMS) that illuminates a low tyre pressure telltale when one or more of your tyres is significantly under-inflated. Accordingly, when the low tyre pressure telltale illuminates, you should stop and check your tyres as soon as possible, and inflate them to the proper pressure. Driving on a significantly under-inflated tyre causes the tyre to overheat and can lead to tyre failure. Under-inflation also reduces fuel efficiency and tyre tread life, and may affect the vehicle's handling and stopping ability.

Please note that the TPMS is not a substitute for proper tyre maintenance, and it is the driver's responsibility to maintain correct tyre pressure, even if under-inflation has not reached the level to trigger illumination of the TPMS low tyre 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 tyre 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 tyre pressure as intended.

TPMS malfunctions may occur for a variety of reasons, including the installation of replacement or alternate tyres or wheels on the vehicle that prevent the TPMS from functioning properly. Always check the TPMS malfunction telltale after replacing one or more tyres or wheels on your vehicle to ensure that the replacement or alternate tyres and wheels allow the TPMS to continue to function properly.

### NOTICE

If any of the below happens, we recommend that the system be checked by a HYUNDAI authorised repairer.

- 1. The low tyre pressure telltale/TPMS malfunction indicator does not illuminate for 3 seconds when the ignition switch is turned to the ON position or the engine is running.**
- 2. The TPMS malfunction indicator remains illuminated after blinking for approximately 1 minute.**
- 3. The Low tyre pressure position telltale remains illuminated.**



Low tyre pressure telltale



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Low tyre pressure position telltale and tyre pressure telltale

When the tyre pressure monitoring system warning indicators are illuminated and a warning message displayed on the cluster LCD display, one or more of your tyres is significantly under-inflated. The low tyre pressure position telltale light will indicate which tyre is significantly under-inflated by illuminating the corresponding position light.

If either telltale illuminates, immediately reduce your speed, avoid hard cornering and anticipate increased stopping distances. You should stop and check your tyres as soon as possible. Inflate the tyres to the proper pressure as indicated on the vehicle's placard or tyre inflation pressure label located on the driver's side centre pillar outer panel. If you cannot reach a service station or if the tyre cannot hold the newly added air, replace the low pressure tyre with a spare tyre.

If you drive the vehicle for about 10 minutes at speeds above 15 mph (25 km/h) after replacing the low pressure tyre with the spare tyre, the below will happen:

- The TPMS malfunction indicator may blink for approximately 1 minute and then remain continuously illuminated because the TPMS sensor is not mounted on the spare wheel.

**NOTICE**

**The spare tyre is not equipped with a tyre pressure sensor.**

 **CAUTION**

**In winter or cold weather, the low tyre pressure telltale may illuminate if the tyre pressure was adjusted to the recommended tyre inflation pressure in warm weather. It does not mean your TPMS is malfunctioning because the decreased temperature leads to a lowering of tyre 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 higher or lower, you should check the tyre inflation pressure and adjust the tyres to the recommended tyre inflation pressure.**

 **WARNING****Low pressure damage**

**Significantly low tyre pressure makes the vehicle unstable and can contribute to loss of vehicle control and increased braking distances.**

**Continued driving on low pressure tyres can cause the tyres to overheat and fail.**



### TPMS (Tyre 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 Tyre Pressure Monitoring System.

We recommend that the system be checked by a HYUNDAI authorised repairer.

#### NOTICE

**If there is a malfunction with the TPMS, the low tyre pressure position telltale will not be displayed even though the vehicle has an under-inflated tyre.**

#### CAUTION

- **The TPMS malfunction indicator may blink for approximately 1 minute and then remain continuously illuminated if the vehicle is moving around electric power supply cables or radios transmitter such as at police stations, government and public offices, broadcasting stations, military installations, airports, or transmitting towers, etc. This can interfere with normal operation of the Tyre Pressure Monitoring System (TPMS).**
- **The TPMS malfunction indicator may blink for approximately 1 minute and then remain continuously illuminated if snow chains are used or some separate electronic devices such as notebook computer, mobile charger, remote starter or navigation etc., are used in the vehicle.**

**This can interfere with normal operation of the Tyre Pressure Monitoring System (TPMS).**

### Changing a tyre with TPMS

If you have a flat tyre, the low Tyre Pressure and Position telltales will come on. We recommend that the system be checked by a HYUNDAI authorised repairer.

#### 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 tyre. Tyre sealant not approved by HYUNDAI dealer may damage the tyre pressure sensor.**

Each wheel is equipped with a tyre pressure sensor mounted inside the tyre behind the valve stem. You must use TPMS specific wheels. It is recommended that you have your tyres serviced by a HYUNDAI authorised repairer.

If you drive the vehicle for about 10 minutes at speeds above 15 mph (25 km/h) after replacing the low pressure tyre with the spare tyre, the below will happen:

- The TPMS malfunction indicator may blink for approximately 1 minute and then remain continuously illuminated because the TPMS sensor is not mounted on the spare wheel.

You may not be able identify a tyre with low pressure by simply looking at it. Always use a good quality tyre pressure gauge to measure the tyre's inflation pressure. Please note that a tyre that is hot (from being driven) will have a higher pressure measurement than a tyre that is cold (from sitting stationary for at least 3 hour and driven less than 1 mile (1.6 km) during that 3 hour period).

Allow the tyre to cool before measuring the inflation pressure. Always be sure the tyre is cold before inflating to the recommended pressure.

A cold tyre means the vehicle has been sitting for 3 hours and driven for less than 1 mile (1.6 km) in that 3 hour period.

### WARNING

- **The TPMS cannot alert you to severe and sudden tyre 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 and with light force, and slowly move to a safe position off the road.**

**⚠ WARNING**

Tampering with, modifying, or disabling the Tyre Pressure Monitoring System (TPMS) components may interfere with the system's ability to warn the driver of low tyre pressure conditions and/or TPMS malfunctions. Tampering with, modifying, or disabling the Tyre Pressure Monitoring System (TPMS) components may void the warranty for that portion of the vehicle.

**⚠ WARNING**

**For EUROPE**

- Do not modify the vehicle; it may interfere with the TPMS function.
- The wheels on the market do not have a TPMS sensor.

For your safety, we recommend that you use parts for replacement from a HYUNDAI authorised repairer.

- If you use the wheels on the market, use a TPMS sensor approved by a HYUNDAI. If your vehicle is not equipped with a TPMS sensor or TPMS does not work properly, you may fail the periodic vehicle inspection conducted in your country.

(Continued)

**(Continued)**

**\*All vehicles sold in the EUROPE market during below period must be equipped with TPMS.**

- New model vehicle :  
Nov. 1, 2012 ~

- Current model vehicle :  
Nov. 1, 2014~ (Based on  
vehicle registrations)

## IF YOU HAVE A FLAT TYRE (WITH SPARE TYRE, IF EQUIPPED)

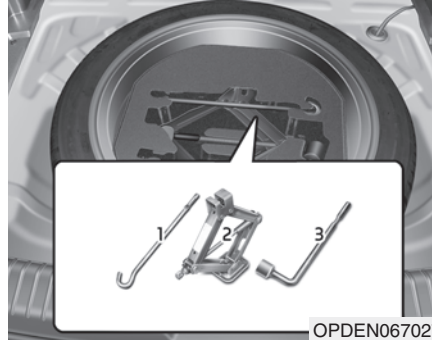
### WARNING

Changing a tyre can be dangerous. Follow the instructions in this section when changing a tyre to reduce the risk of serious injury or death.

### CAUTION

Be careful as you use the jack handle to stay clear of the flat end. The flat end has sharp edges that could cause cuts.

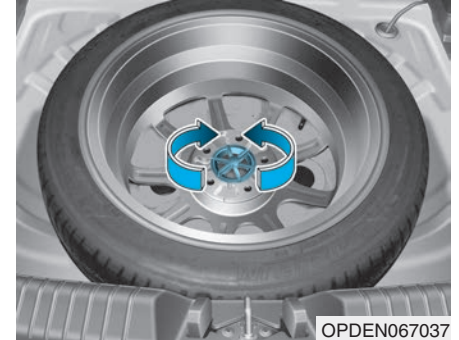
### Jack and tools



- (1) Jack handle
- (2) Jack
- (3) Wheel nut wrench

The jack, jack handle, and wheel nut wrench are stored in the luggage compartment under the luggage box cover.

The jack is provided for emergency tyre changing only.



Turn the winged hold down bolt counterclockwise to remove the spare tyre.

Store the spare tyre in the same compartment by turning the winged hold down bolt clockwise.

To prevent the spare tyre and tools from "rattling", store them in their proper location.





If it is hard to loosen the tyre hold-down wing bolt by hand, you can loosen it easily using the jack handle.

1. Put the jack handle (1) inside of the tyre hold-down wing bolt.
2. Turn the tyre hold-down wing bolt counterclockwise with the jack handle.

### Changing tyres

#### **WARNING**

A vehicle can slip or roll off of a jack causing serious injury or death to you or those nearby. Take the following safety precautions:

- Do not get under a vehicle that is supported by a jack.
- **NEVER** attempt to change a tyre in the lane of traffic. **ALWAYS** move the vehicle completely off the road on level, firm ground away from traffic before trying to change a tyre. If you cannot find a level, firm place off the road, call a towing service for assistance.
- Be sure to use the jack provided with the vehicle.

(Continued)

(Continued)

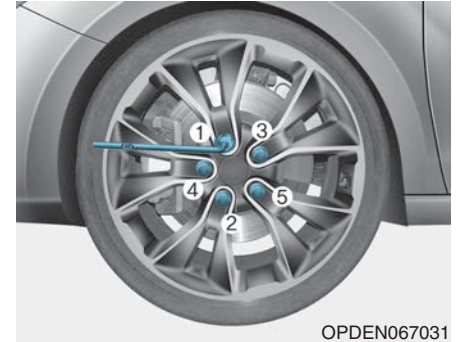
- **ALWAYS** place the jack on the designated jacking positions on the vehicle and **NEVER** on the bumpers or any other part of the vehicle for jacking support.
- Do not start or run the engine whilst the vehicle is on the jack.
- Do not allow anyone to remain in the vehicle whilst it is on the jack.
- Keep children away from the road and the vehicle.

Follow these steps to change your vehicle's tyre:

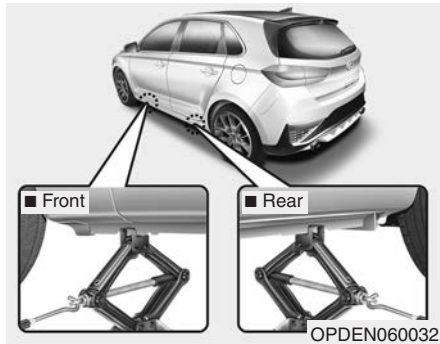
1. Park on a level, firm surface.
2. Move the shift lever into P (Park, for dual clutch transmission vehicle) or neutral (for manual transmission vehicle), apply the parking brake, and place the ignition switch in the LOCK/OFF position.
3. Press the hazard warning flasher button.
4. Remove the wheel lug nut wrench, jack, jack handle, and spare tyre from the vehicle.



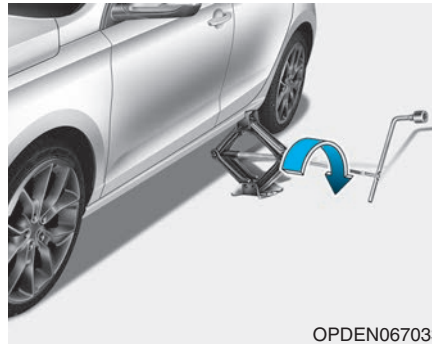
5. Block both the front and rear of the tyre diagonally opposite of the tyre you are changing.



6. Loosen the wheel lug nuts counterclockwise one turn each in the order shown above, but do not remove any lug nuts until the tyre has been raised off of the ground.



7. Place the jack at the designated jacking position under the frame closest to the tyre you are changing. The jacking positions are plates welded to the frame with two notches. Never jack at any other position or part of the vehicle. It may damage the side seal molding.



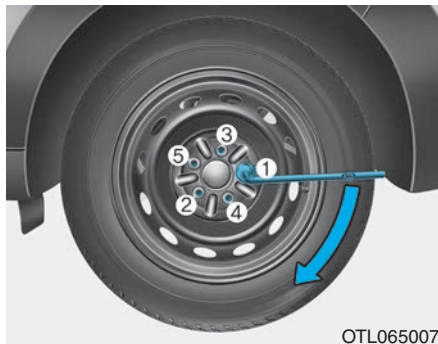
8. Insert the jack handle into the jack and turn it clockwise, raising the vehicle until the tyre clears the ground. Make sure the vehicle is stable on the jack.

9. Loosen the lug nuts with the wheel lug nut wrench and remove them with your fingers. Remove the wheel from the studs and lay it flat on the ground out of the way. Remove any dirt or debris from the studs, mounting surfaces, and wheel.

10. Install the spare tyre onto the studs of the hub.

11. Tighten the lug nuts with your fingers onto the studs with the smaller end of the lug nuts closest to the wheel.

12. Lower the vehicle to the ground by turning the jack handle counterclockwise.



OTL065007

13. Use the wheel lug nut wrench to tighten the lug nuts in the order shown. Double-check each lug nut until they are tight. After changing tyres, we recommend that a HYUNDAI authorised repairer tighten the lug nuts to their proper torque as soon as possible. **The wheel lug nut should be tightened to 11~13 kgf·m (79~94 lbf·ft).**

If you have a tyre gauge, check the tyre pressure (see "Tyres and Wheels" in chapter 8 for tyre pressure instructions.). If the pressure is lower or higher than recommended, drive slowly to the nearest service station and adjust it to the recommended pressure. Always reinstall the valve cap after checking or adjusting tyre pressure. If the cap is not replaced, air may leak from the tyre. If you lose a valve cap, buy another and install it as soon as possible. After changing tyres, secure the flat tyre and return the jack and tools to their proper storage locations.

#### NOTICE

- **Check the tyre pressure as soon as possible after installing a spare tyre. Adjust it to the recommended pressure.**
- **Check and tighten the wheel lug nuts after driving over 30 miles (50 km) if tyres are replaced. Re-check the tyre wheel lug nuts after driving over 620 mph (1,000 km).**

#### ⚠ CAUTION

**Your vehicle has metric threads on the studs and lug nuts. Make certain during tyre changing that the same nuts that were removed are reinstalled. If you have to replace your lug nuts make sure they have metric threads to avoid damaging the studs and ensure the wheel is properly secured to the hub. We recommend that you consult a HYUNDAI authorised repairer for assistance.**

If any of the equipment such as the jack, lug nuts, studs, or other equipment is damaged or in poor condition, do not attempt to change the tyre and call for assistance.

### ***Use of compact spare tyres (if equipped)***

Compact spare tyres are designed for emergency use only. Drive carefully on the compact spare tyre and always follow the safety precautions.

#### **⚠ WARNING**

**To prevent compact spare tyre failure and loss of control possibly resulting in an accident:**

- **Use the compact spare tyre only in an emergency.**
- **NEVER operate your vehicle over 50 mph (80 km/h).**
- **Do not exceed the vehicle's maximum load rating or the load carrying capacity shown on the sidewall of the compact spare tyre.**
- **Do not use the compact spare tyre continuously. Repair or replace the original tyre as soon as possible to avoid failure of the compact spare tyre.**

When driving with the compact spare tyre mounted to your vehicle:

- Check the tyre pressure after installing the compact spare tyre. The compact spare tyre should be inflated to 420 kPa (60 psi).
- Do not take this vehicle through an automatic car wash whilst the compact spare tyre is installed.
- Do not use the compact spare tyre on any other vehicle because this tyre has been designed especially for your vehicle.
- The compact spare tyre's tread life is shorter than a regular tyre. Inspect your compact spare tyre regularly and replace worn compact spare tyres with the same size and design, mounted on the same wheel.
- Do not use more than one compact spare tyre at a time.
- Do not tow a trailer whilst the compact spare tyre is installed.

#### **NOTICE**

**When the original tyre and wheel are repaired and reinstalled on the vehicle, the lug nut torque must be set correctly. The correct lug nut tightening torque is 11~13 kgf-m (79~94 lbf-ft).**

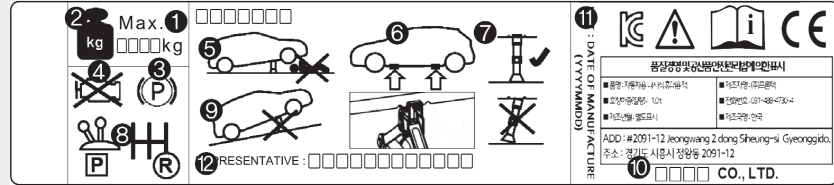
## ⚠ CAUTION

To prevent damaging the compact spare tyre and your vehicle:

- Drive slowly enough for the road conditions to avoid all hazards, such as a potholes or debris.
- Avoid driving over obstacles. The compact spare tyre diameter is smaller than the diameter of a conventional tyre and reduces the ground clearance approximately 25 mm (1 inch).
- Do not use tyre chains on the compact spare tyre. Because of the smaller size, a tyre chain will not fit properly.
- Do not use the compact spare tyre on any other wheels, nor should standard tyres, snow tyres, wheel covers or trim rings be used with the compact spare wheel.
- Do not suddenly accelerate or decelerate 0 ↔ 25mph (0 ↔ 40 km/h) in any driving mode. It may cause leakage of transfer oil.

## Jack label

■ Example





OHYK065011

The actual Jack label in the vehicle may differ from the illustration. For more detailed specifications, refer to the label attached to the jack.

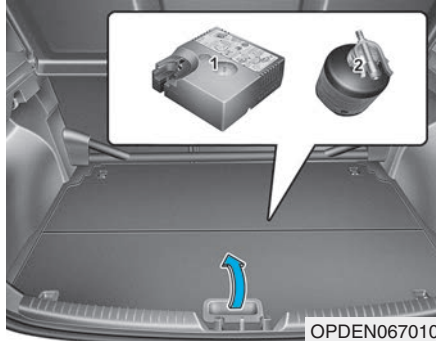
1. Model Name
2. Maximum allowable load
3. When using the jack, set your parking brake.
4. When using the jack, stop the engine.
5. Do not get under a vehicle that is supported by a jack.
6. The designated locations under the frame
7. When supporting the vehicle, the base plate of jack must be vertical under the lifting point.
8. Shift into Reverse gear on vehicles with manual transmission or move the shift lever to the P position on vehicles with automatic transmission/ dual clutch transmission.
9. The jack should be used on firm level ground.
10. Jack manufacture
11. Production date
12. Representative company and address

## EC Declaration of conformity for Jack

	
<b>EC Declaration of Conformity</b> according to EC Machinery Directive 2006/42/EC	
We, <b>FRONTEC CO., LTD.</b> 2091-12 Jeongwang 2(i)-dong Siheung-si Gyeonggi-d ,Korea declare under our sole responsibility that the product	
<b>Product</b>	: JACK-ASSY
<b>Type Designation(s)</b>	: 1200KG, 1000KG, 800KG, 700KG, 500KG
<b>Serial No.</b>	: N/A (prototype)
<b>Year of Manufacture</b>	: 2013
to which this declaration relates is in conformity with the following standard(s) or other normative document(s):	
EN ISO12100 (2010)	Safety of machinery - General principles for design – Risk assessment and risk reduction
EN 1494/A1 (2008)	Mobile or movable jacks and associated lifting equipment
following the provisions of Directive(s):	
2006/42/EC	Directive on the approximation of the laws of Member States relating to machinery (OJ L157 Jun, 9, 2006)
 <u>Siheung-si Gyeonggi-d ,Korea / 15.07.2013</u> <u>SOO HONG, MIN</u> <u>President</u> 	
(Place and date of issue)(Name and signature or equivalent making of authorized person)	
* T.C.F Compiling Location: - Address: PRIBORSKA 280, 739 42 FRYDEK MISTEK, CHLEBOVICE, CZECH REPUBLIC - Team: Purchase team - Company name: HANWHIA L&C CZECH s.r.o	

JACKDOC14F

## IF YOU HAVE A FLAT TYRE (WITH TYRE MOBILITY KIT, IF EQUIPPED) – TYPE A



For safe operation, carefully read and follow the instructions in this manual before use.

- (1) Compressor
- (2) Sealant bottle

The Tyre Mobility Kit is a temporary fix to the tyre and we recommend that the system be inspected by a HYUNDAI authorised repairer.

### ⚠ CAUTION

**When two or more tyres are flat, do not use the tyre mobility kit because the sealant provided with the Tyre Mobility Kit must be used for only one flat tyre.**

### ⚠ WARNING

**Do not use the Tyre Mobility Kit to repair punctures in the tyre walls. This can result in an accident due to tyre failure.**

### ⚠ WARNING

**Have your tyre repaired as soon as possible. The tyre may lose air pressure at any time after inflating with the Tyre Mobility Kit.**

### Introduction

With the Tyre Mobility Kit you stay mobile even after experiencing a tyre puncture.

The system of compressor and sealing compound effectively and comfortably seals most punctures in a passenger car tyre caused by nails or similar objects and reinflates the tyre.

After you ensured that the tyre is properly sealed you can drive cautiously on the tyre (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 tyre dealer to have the tyre replaced.

It is possible that some tyres, especially with larger punctures or damage to the sidewall, cannot be sealed completely.

Air pressure loss in the tyre may adversely affect tyre performance.

For this reason, you should avoid abrupt steering or other driving manoeuvres, especially if the vehicle is heavily loaded or if a trailer is in use.



The Tyre Mobility Kit is not designed or intended as a permanent tyre repair method and is to be used for one tyre 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 Tyre Mobility Kit".

### WARNING

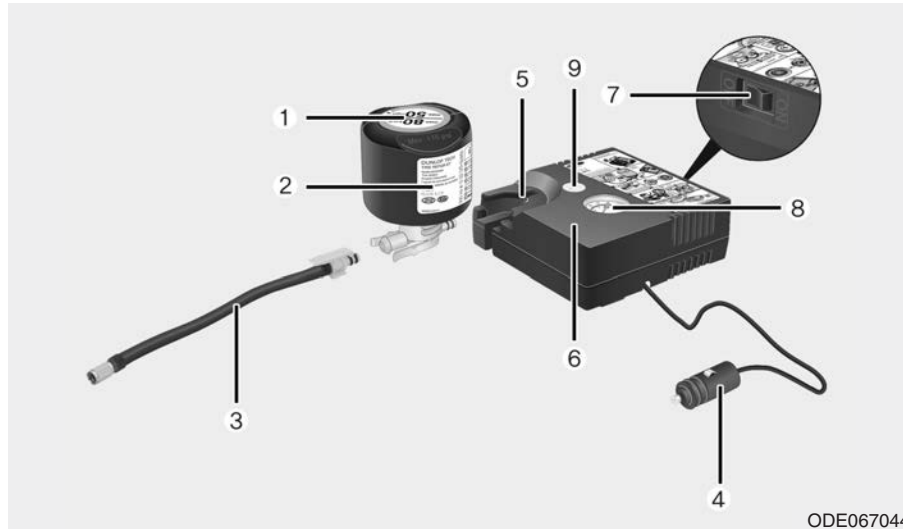
**Do not use the TMK if a tyre is severely damaged by driving run flat or with insufficient air pressure.**

**Only punctured areas located within the tread region of the tyre can be sealed using the TMK.**

### Notes on the safe use of the Tyre Mobility Kit

- Park your car at the side of the road so that you can work with the Tyre 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 Tyre Mobility Kit for sealing/inflation passenger car tyres. Only punctured areas located within the tread region of the tyre can be sealed using the tyre mobility kit.
- Do not use on motorcycles, bicycles or any other type of tyres.
- When the tyre and wheel are damaged, do not use Tyre Mobility Kit for your safety.
- Use of the Tyre Mobility Kit may not be effective for tyre damage larger than approximately 6 mm (0.24 in). If the tyre cannot be made road-worthy with the Tyre Mobility Kit, we recommend that you contact a HYUNDAI authorised repairer.
- Do not use the Tyre Mobility Kit if a tyre 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 tyre.
- Provided the car is outdoors, leave the engine running. Otherwise operating the compressor may eventually drain the car battery.
- Never leave the Tyre Mobility Kit unattended whilst 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 Tyre Mobility Kit if the ambient temperature is below  $-30^{\circ}\text{C}$  ( $-22^{\circ}\text{F}$ ).
- In case of skin contact with the sealant, wash the area thoroughly with plenty of water. If the irritation persists, seek medical attention.
- In case of eye contact with the sealant, flush your eyes for at least 15 minutes. If the irritation persists, seek medical attention.
- In case of swallowing the sealant, rinse the mouth and drink plenty of water. However, never give anything to an unconscious person and seek medical attention immediately.
- Long time exposure to the sealant may cause damage to bodily tissue such as kidney, etc.

## Components of the Tyre 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 tyre inflation pressure
9. Button for reducing the tyre inflation pressure

Connectors, cable and connection hose are stored in the compressor housing.

Strictly follow the specified sequence, otherwise the sealant may escape under high pressure.

### WARNING

#### Expired sealant

**Do not use the Tyre sealant after the sealant has expired (for example, pasted the expiration date on the sealant container). This can increase the risk of tyre failure.**

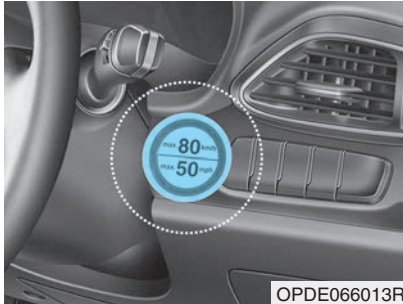
### WARNING

#### Sealant

- **Keep out of reach of children.**
- **Avoid contact with eyes.**
- **Do not swallow.**

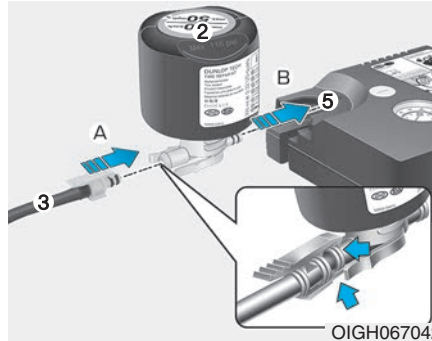
## Using the Tyre Mobility Kit

**CAUTION**

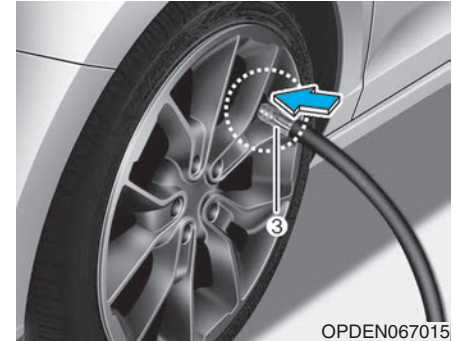


Detach the speed restriction label (1) from the sealant bottle (2), and place it in a highly visible place inside the vehicle such as on the steering wheel to remind the driver not to drive too fast.

1. Shake the sealant bottle (1).



2. Connect the filling hose (3) to the sealant bottle (2) in the direction of (A) and connect the sealant bottle to the compressor (5) in the direction of (B).
3. Ensure that the compressor is switched OFF.



4. Unscrew the valve cap from the valve of the defective wheel and screw the filling hose (3) of the sealant bottle onto the valve.

**CAUTION**

Securely install the sealant filling hose to the valve. If not, sealant may flow backward, possibly clogging the filling hose.



5. Plug the compressor power cord (4) into the vehicle power outlet.

**NOTICE**

**Only use the front passenger side power outlet when connecting the power cord.**

6. 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 Tyre and Wheels, chapter 8). The inflation pressure of the tyre after filling is unimportant and will be checked/corrected later.

Be careful not to overinflate the tyre and stay away from the tyre when filling it.

**CAUTION**

**Tyre pressure**

**Do not attempt to drive your vehicle if the tyre pressure is below 29 psi (200 kPa). This could result in an accident due to sudden tyre failure.**

7. Switch off the compressor.
8. Detach the hoses from the sealant bottle connector and from the tyre valve.

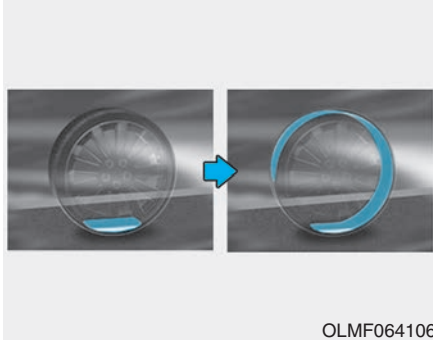
Return the Tyre Mobility Kit to its storage location in the vehicle.

**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 tyre.

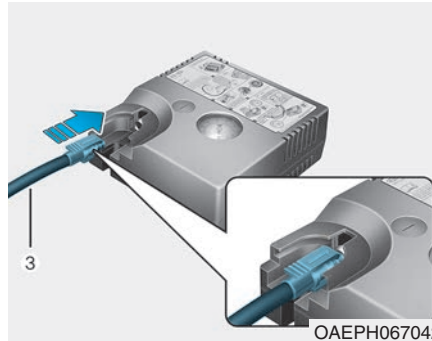
Do not exceed a speed of 50 mph (80 km/h). If possible, do not fall below a speed of 12 mph (20 km/h).

Whilst 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.

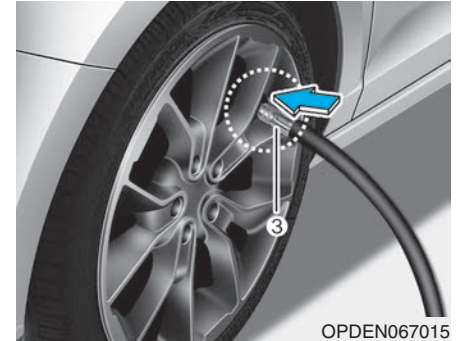
### Checking the tyre inflation pressure

1. After driving approximately 4~6 miles (7~10 km or about 10 min), stop at a safety location.



OAEPH067042

2. Connect the filling hose (3) directly into the compressor.



OPDEN067015

3. Connect the other end of the filling hose (3) directly into the tyre valve.

4. Plug the compressor power cord (4) into the vehicle power outlet.

5. Adjust the tyre inflation pressure to the recommended tyre inflation.

With the ignition switched 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 tyre reading, the compressor needs to be turned off.

**⚠ 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 tyre damage larger than approximately 4 mm (0.16 in).

We recommend that you contact a HYUNDAI authorised repairer if the tyre cannot be made road-worthy with the Tyre Mobility Kit.

**⚠ WARNING**

The tyre inflation pressure must be at least 32 psi (220 kPa). If it is not, do not continue driving. Call for road side service or towing.

**⚠ CAUTION**

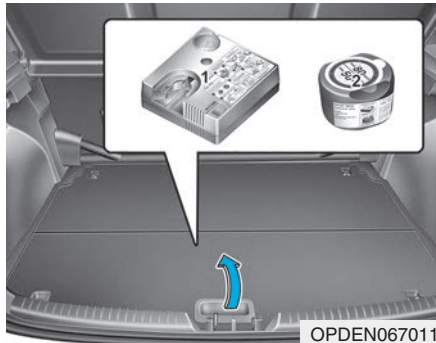
**Tyre pressure sensor (if equipped with TPMS)**

The sealant on the tyre pressure sensor and wheel should be removed when you replace the tyre with a new one and inspect the tyre pressure sensors at an authorised repairer.

**i Information**

When reinstalling the repaired or replaced tyre and wheel on the vehicle, tighten the wheel lug nut to 11~13 kgf·m (79~94 lbf·ft).

## IF YOU HAVE A FLAT TYRE (WITH TYRE MOBILITY KIT, IF EQUIPPED) – TYPE B



For safe operation, carefully read and follow the instructions in this manual before use.

- (1) Compressor
- (2) Sealant bottle

The Tyre Mobility Kit is a temporary fix to the tyre and we recommend that the system be inspected by a HYUNDAI authorised repairer.

### ⚠ CAUTION

**When two or more tyres are flat, do not use the tyre mobility kit because the supported one sealant of Tyre Mobility Kit is only used for one flat tyre.**

### ⚠ WARNING

**Do not use the Tyre Mobility Kit to repair punctures in the tyre walls. This can result in an accident due to tyre failure.**

### ⚠ WARNING

**Have your tyre repaired as soon as possible. The tyre may lose air pressure at any time after inflating with the Tyre Mobility Kit.**

### Introduction

With the Tyre Mobility Kit you stay mobile even after experiencing a tyre puncture.

The system of compressor and sealing compound effectively and comfortably seals most punctures in a passenger car tyre caused by nails or similar objects and reinflates the tyre.

After you ensured that the tyre is properly sealed you can drive cautiously on the tyre (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 tyre dealer to have the tyre replaced.

It is possible that some tyres, especially with larger punctures or damage to the sidewall, cannot be sealed completely.

Air pressure loss in the tyre may adversely affect tyre performance.

For this reason, you should avoid abrupt steering or other driving manoeuvres, especially if the vehicle is heavily loaded or if a trailer is in use.

The Tyre Mobility Kit is not designed or intended as a permanent tyre repair method and is to be used for one tyre 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 Tyre Mobility Kit".

### WARNING

**Do not use the TMK if a tyre is severely damaged by driving run flat or with insufficient air pressure.**

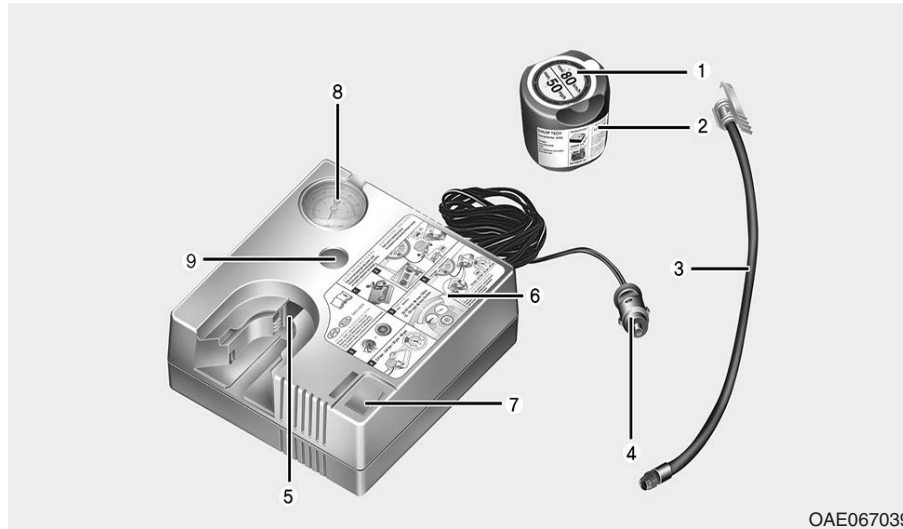
**Only punctured areas located within the tread region of the tyre can be sealed using the TMK.**

### Notes on the safe use of the Tyre Mobility Kit

- Park your car at the side of the road so that you can work with the Tyre 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 Tyre Mobility Kit for sealing/inflation passenger car tyres. Only punctured areas located within the tread region of the tyre can be sealed using the tyre mobility kit.
- Do not use on motorcycles, bicycles or any other type of tyres.
- When the tyre and wheel are damaged, do not use Tyre Mobility Kit for your safety.
- Use of the Tyre Mobility Kit may not be effective for tyre damage larger than approximately 6 mm (0.24 in). If the tyre cannot be made road-worthy with the Tyre Mobility Kit, we recommend that you contact a HYUNDAI authorised repairer.
- Do not use the Tyre Mobility Kit if a tyre 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 tyre.
- Provided the car is outdoors, leave the engine running. Otherwise operating the compressor may eventually drain the car battery.
- Never leave the Tyre Mobility Kit unattended whilst 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 Tyre Mobility Kit if the ambient temperature is below -30°C (-22°F).
- In case of skin contact with the sealant, wash the area thoroughly with plenty of water. If the irritation persists, seek medical attention.
- In case of eye contact with the sealant, flush your eyes for at least 15 minutes. If the irritation persists, seek medical attention.
- In case of swallowing the sealant, rinse the mouth and drink plenty of water. However, never give anything to an unconscious person and seek medical attention immediately.
- Long time exposure to the sealant may cause damage to bodily tissue such as kidney, etc.



## Components of the Tyre 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 tyre inflation pressure
9. Button for reducing the tyre inflation pressure

Connectors, cable and connection hose are stored in the compressor housing.

Strictly follow the specified sequence, otherwise the sealant may escape under high pressure.

### **⚠ WARNING**

#### **Expired sealant**

**Do not use the Tyre sealant after the sealant has expired (for example, past the expiration date on the sealant container). This can increase the risk of tyre failure.**

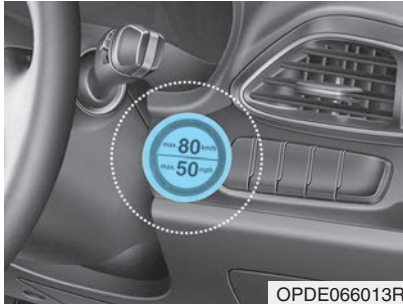
### **⚠ WARNING**

#### **Sealant**

- **Keep out of reach of children.**
- **Avoid contact with eyes.**
- **Do not swallow.**

## Using the Tyre Mobility Kit

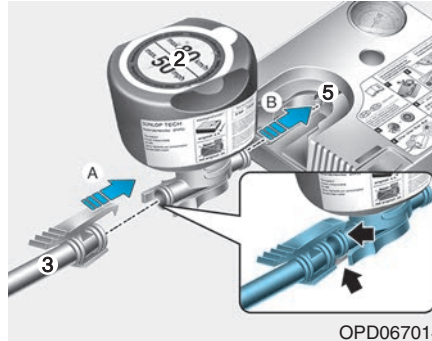
 **CAUTION**



OPDE066013R

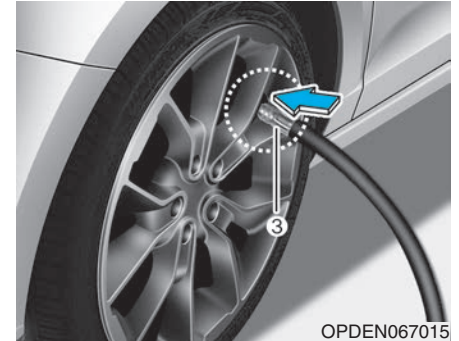
**Detach the speed restriction label (1) from the sealant bottle (2), and place it in a highly visible place inside the vehicle such as on the steering wheel to remind the driver not to drive too fast.**

1. Shake the sealant bottle (1).



OPD067014

2. Connect the filling hose (3) to the sealant bottle (2) in the direction of (A) and connect the sealant bottle to the compressor (5) in the direction of (B).
3. Ensure that the compressor is switched OFF.



OPDEN067015

4. Unscrew the valve cap from the valve of the defective wheel and screw the filling hose (3) of the sealant bottle onto the valve.

**CAUTION**

Securely install the sealant filling hose to the valve. If not, sealant may flow backward, possibly clogging the filling hose.



5. Plug the compressor power cord (4) into the vehicle power outlet.

**NOTICE**

**Only use the front passenger side power outlet when connecting the power cord.**

6. With the 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 Tyre and Wheels, chapter 8). The inflation pressure of the tyre after filling is unimportant and will be checked/corrected later.

Be careful not to overinflate the tyre and stay away from the tyre when filling it.

**CAUTION**

**Tyre pressure**

**Do not attempt to drive your vehicle if the tyre pressure is below 29 psi (200 kPa). This could result in an accident due to sudden tyre failure.**

7. Switch off the compressor.
8. Detach the hoses from the sealant bottle connector and from the tyre valve.

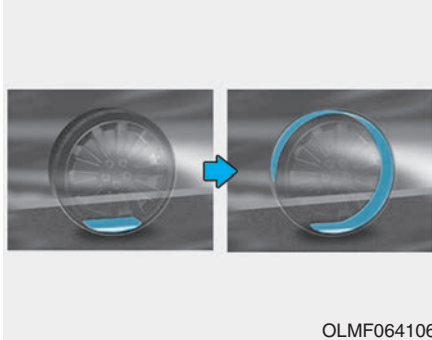
Return the Tyre Mobility Kit to its storage location in the vehicle.

**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 tyre.

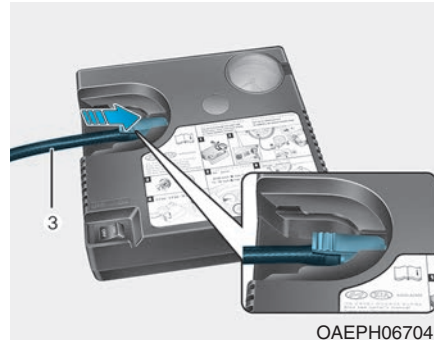
Do not exceed a speed of 50 mph (80 km/h). If possible, do not fall below a speed of 12 mph (20 km/h).

Whilst 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.

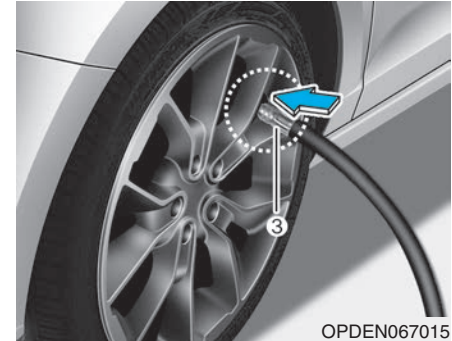
### Checking the tyre inflation pressure

1. After driving approximately 4~6 miles (7~10 km or about 10 min), stop at a safety location.



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2. Connect the filling hose (3) directly into the compressor.



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3. Connect the other end of the filling hose (3) directly into the tyre valve.
4. Plug the compressor power cord (4) into the vehicle power outlet.
5. Adjust the tyre inflation pressure to the recommended tyre inflation. With the ignition switched 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 tyre reading, the compressor needs to be turned off.

**⚠ 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 tyre damage larger than approximately 4 mm (0.16 in).

We recommend that you contact a HYUNDAI authorised repairer if the tyre cannot be made road-worthy with the Tyre Mobility Kit.

**⚠ WARNING**

The tyre inflation pressure must be at least 32 psi (220 kPa). If it is not, do not continue driving. Call for road side service or towing.

**⚠ CAUTION**

**Tyre pressure sensor (if equipped with TPMS)**

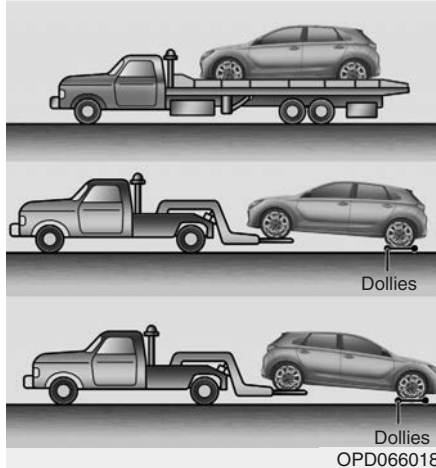
The sealant on the tyre pressure sensor and wheel should be removed when you replace the tyre with a new one and inspect the tyre pressure sensors at an authorised repairer.

**i Information**

When reinstalling the repaired or replaced tyre 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 a HYUNDAI authorised repairer 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.

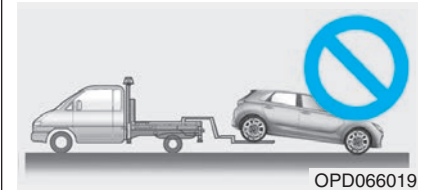
It is acceptable to tow the vehicle with the rear wheels on the ground (without dollies) and the front wheels off the ground.

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.

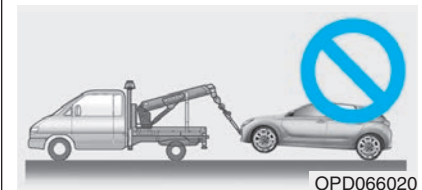
When being towed by a commercial tow truck and wheel dollies are not used, the front of the vehicle should always be lifted, not the rear.

### ⚠ CAUTION

- 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.



### WARNING

If your vehicle is equipped with a rollover sensor, place the ignition switch in the **LOCK/OFF** or **ACC** position when the vehicle is being towed. The side impact and curtain air bag may deploy if the sensor detects the situation as a rollover.

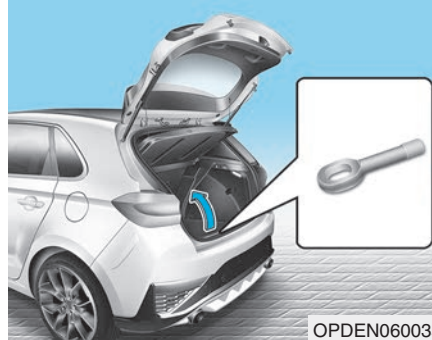
When towing your vehicle in an emergency without wheel dollies:

1. Place the ignition switch in the ACC position.
2. Place the shift lever in neutral.
3. Release the parking brake.

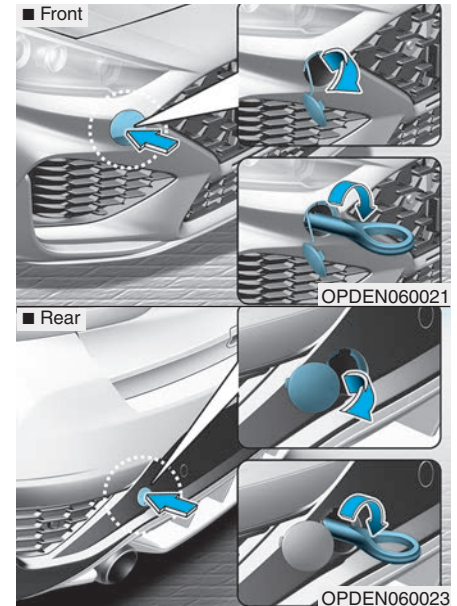
### CAUTION

Failure to place the shift lever in neutral may cause internal damage to the transmission.

## Removable towing hook



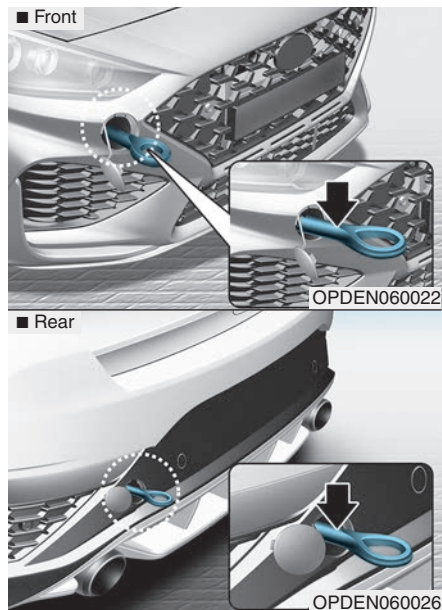
1. Open the tailgate, and remove the towing hook from the tool case.



2. Remove the hole cover pressing the lower part of the cover on the bumper.
3. Install the towing hook by turning it clockwise into the hole until it is fully secured.
4. Remove the towing hook and install the cover after use.



## Emergency towing



If towing is necessary, we recommend you have it done by a HYUNDAI authorised repairer or a commercial tow truck service.

If a towing service is not available in an emergency, your vehicle may be temporarily towed using a cable or chain secured to the emergency towing hook at the front (or rear) of the vehicle.

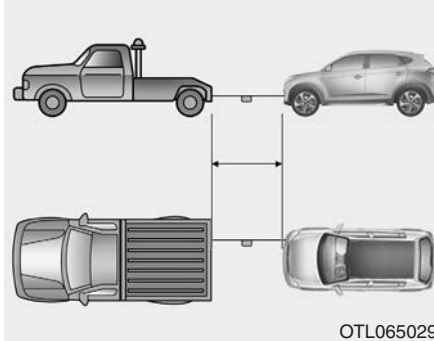
Use extreme caution when towing the vehicle with a cable or chain. A driver must be in the vehicle to steer it and operate the brakes.

Towing in this manner may be done only on hard-surfaced roads for a short distance and at low speeds. Also, the wheels, axles, power train, steering and brakes must all be in good condition.

Always follow these emergency towing precautions:

- Place the ignition switch in the ACC position so the steering wheel is not locked.
- Place the shift lever in neutral.
- Release the parking brake.
- Depress the brake pedal with more force than normal as 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 5 m (16 feet) long. Attach a white or red cloth (about 30 cm (12 inches) 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 dual clutch transmission for fluid leaks under your vehicle.

### 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.

## EMERGENCY COMMODITY (IF EQUIPPED)

Your vehicle is equipped with emergency commodities to help you respond to emergency situation.

### Fire extinguisher

If there is small fire and you know how to use the fire extinguisher, follow these steps carefully.

1. Pull out the safety pin at the top of the extinguisher that keeps the handle from being accidentally pressed.
2. Aim the nozzle towards the base of the fire.
3. Stand approximately 2.5 m (8 ft) away from the fire and squeeze the handle to discharge the extinguisher. If you release the handle, the discharge will stop.
4. Sweep the nozzle back and forth at the base of the fire. After the fire appears to be out, watch carefully since it may re-ignite.

### First aid kit

Supplies for use in giving first aid such as scissors, bandage and adhesive tape, etc., are provided.

### Triangle reflector

Place the triangle reflector on the road to warn oncoming vehicles during emergencies, such as when the vehicle is parked by the roadside due to problems.

### Tyre pressure gauge (if equipped)

Tyres normally lose some air in day-to-day use, and you may have to add a air periodically and usually it is not a sign of a leaking tyre, but of normal wear. Always check tyre pressure when the tyres are cold because tyre pressure increases with temperature.

To check the tyre pressure, take the following steps:

1. Unscrew the inflation valve cap that is located on the rim of the tyre.
2. Press and hold the gauge against the tyre valve. Some air will leak as you begin and more will leak if you don't press the gauge in firmly.
3. A firm non-leaking push will activate the gauge.
4. Read the tyre pressure on the gauge to see whether the tyre pressure is low or high.
5. Adjust the tyre pressure to the specified pressure. Refer to "Tyres and Wheels" in chapter 8.
6. Reinstall the inflation valve cap.

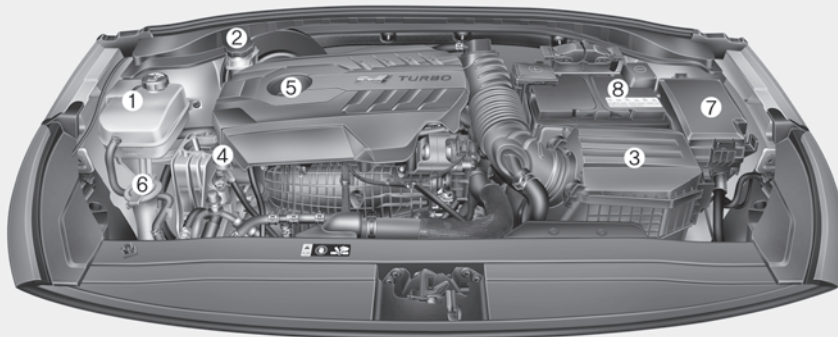


# Maintenance

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## ENGINE COMPARTMENT



1. Engine coolant reservoir/  
Engine coolant cap
2. Brake/clutch fluid reservoir
3. Air cleaner
4. Engine oil dipstick
5. Engine oil filler cap
6. Windscreen washer fluid reservoir
7. Fuse box
8. Battery

**The actual engine compartment in 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.

We recommend you have your vehicle maintained and repaired by a HYUNDAI authorised repairer. A HYUNDAI authorised repairer 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. 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 Warranty 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 a HYUNDAI authorised repairer 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.

#### NOTICE

**Improper owner maintenance during the warranty period may affect warranty coverage. For details, read the separate Warranty Booklet provided with the vehicle. If you're unsure about any servicing or maintenance procedure, we recommend that the system be serviced by a HYUNDAI authorised repairer.**

## OWNER MAINTENANCE

### WARNING

Performing maintenance work on a vehicle can be dangerous. If you lack sufficient knowledge and experience or the proper tools and equipment to do the work, we recommend that the system be serviced by a HYUNDAI authorised repairer. ALWAYS follow these precautions for performing maintenance work:

- Park your vehicle on level ground, move the shift lever into the P (Park, for dual clutch transmission vehicle) position, apply the parking brake, and place the ignition switch in the LOCK/ OFF position.
- Block the tyres (front and back) to prevent the vehicle from moving.

Remove loose clothing or jewellery that can become entangled in moving parts.

(Continued)

(Continued)

- If you must run the engine during maintenance, do so in an outdoor area or in an area with plenty of ventilation.
- Keep flames, sparks, or smoking materials away from the battery and fuel-related parts.

The following lists are vehicle checks and inspections that should be performed by the owner or a HYUNDAI authorised repairer at the frequencies indicated to help ensure safe, dependable operation of your vehicle.

Any adverse conditions should be brought to the attention of your repairer as soon as possible.

These Owner Maintenance vehicle checks are generally not covered by warranties and you may be charged for labour, parts and lubricants used.

### Owner maintenance schedule

#### ***When you stop for fuel:***

- Check the coolant level in the engine coolant reservoir.
- Check the windscreen washer fluid level.
- Check for low or under-inflated tyres.

### WARNING

**Be careful when checking your engine coolant level if the engine is hot. This may result in coolant being blown out of the opening and cause serious burns and other injuries.**



### ***Whilst 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 travelling on smooth, level road.
- When stopping, listen and check for unusual sounds, pulling to one side, increased brake pedal travel or “hard-to-push” brake pedal.
- Check the dual clutch 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 tyres including the spare for tyres that are worn, show uneven wear, or are damaged.
- Check for loose wheel lug nuts.

### ***At least twice a year: (for example, every Spring and Autumn)***

- Check radiator, heater and air conditioning hoses for leaks or damage.
- Check windscreen washer spray and wiper operation. Clean wiper blades with a 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 bonnet hinges.
- Lubricate door and bonnet locks and latches.
- Lubricate door rubber weather strips.
- Check the air conditioning system.
- 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 driving short distance of less than 5 miles (8 km) in normal temperature or less than 10 miles (16 km) in freezing temperature
- Extensive engine idling or low speed driving for long distances
- Driving on rough, dusty, muddy, unpaved, graveled or salt-spread roads
- Driving in areas using salt or other corrosive materials or in very cold weather
- Driving in heavy traffic area
- Driving on uphill, downhill, or mountain road repeatedly
- Using for towing or camping, and driving with loads on the roof
- Driving as a patrol car, taxi, other commercial use of vehicle towing
- Frequently driving under high speed or rapid acceleration/deceleration
- Frequently driving in stop-and-go conditions
- Engine oil usage which not recommended (Mineral type, Semi-synthetic, Lower grade spec, etc.)

*If your vehicle is operated under the above conditions, you should inspect, replace or refill more frequently than Normal Maintenance Schedule which is provided in your Service Booklet.*

### **i** Information

- **As it is normal for engine oil to be consumed during driving, the engine oil level should be checked on regular basis.**
- **The engine oil change interval for normal operating conditions is based on the use of the recommended engine specification. If the recommended engine oil specification is not used, then replace the engine oil according to the maintenance schedule under severe operating 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 vehicle is being driven in severe conditions, more frequent oil and filter changes are required.

#### Drive belts

Inspect all drive belts for evidence of cuts, cracks, excessive wear or oil saturation and replace if necessary. Drive belts should be checked periodically for proper tension and adjusted as necessary.



#### CAUTION

**When you are inspecting the belt, place the ignition switch to the lock/off or ACC position.**

#### Fuel filter

A clogged-up fuel filter may limit the vehicle driving speed, damage the emission system, and cause the hard starting. When a considerable amount of foreign substances are accumulated in the fuel tank, the fuel filter should be replaced.

Upon installing a new fuel filter, operate the diesel engine for several minutes, and check the connections for any leakages. We recommend you to have the fuel filter replaced by a HYUNDAI authorised repairer.

#### Fuel lines, fuel hoses and connections

Check the fuel lines, fuel hoses and connections for leakage and damage. We recommend that the fuel lines, fuel hoses and connections be replaced by a HYUNDAI authorised repairer.

#### Vapour hose and fuel filler cap

The vapour hose and fuel filler cap should be inspected at those intervals specified in the maintenance schedule. Make sure that a new vapour hose or fuel filler cap is correctly replaced.

#### Air cleaner filter

We recommend that the air cleaner filter be replaced by a HYUNDAI authorised repairer.

#### Spark plugs

Make sure to install new spark plugs of the correct heat range.



#### WARNING

**Do not disconnect and inspect spark plugs when the engine is hot. You may burn yourself.**

## Cooling system

Check the cooling system parts, such as radiator, coolant reservoir, hoses and connections for leakage and damage. Replace any damaged parts.

## Engine coolant

The coolant should be changed at the intervals specified in the maintenance schedule.

## Valve clearance

Inspect excessive valve noise and/or engine vibration and adjust if necessary. We recommend that the system be serviced by a HYUNDAI authorised repairer.

## Manual transmission fluid (if equipped)

Inspect the manual transmission fluid according to the maintenance schedule.

## Dual clutch transmission fluid (if equipped)

Inspect the dual clutch transmission fluid according to the maintenance schedule.

## Brake hoses and lines

Visually check for proper installation, chafing, cracks, deterioration and any leakage. Replace any deteriorated or damaged parts immediately.

## Brake/Clutch fluid

Check the brake/clutch fluid level in the brake fluid reservoir. The level should be between “MIN” and “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 lever and cables.

## Brake 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.

[\(<http://service.hyundai-motor.com>\)](http://service.hyundai-motor.com)

## Suspension mounting bolts

Check the suspension connections for looseness or damage. Retighten to the specified torque.

### **Steering gear box, linkage & boots/lower arm ball joint**

With the vehicle stopped and engine 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/compressor**

Check the air conditioning lines and connections for leakage and damage.

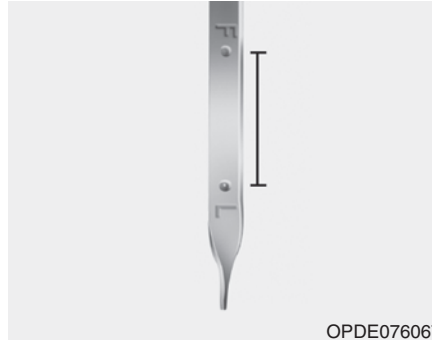
## ENGINE OIL

### Checking the engine oil level

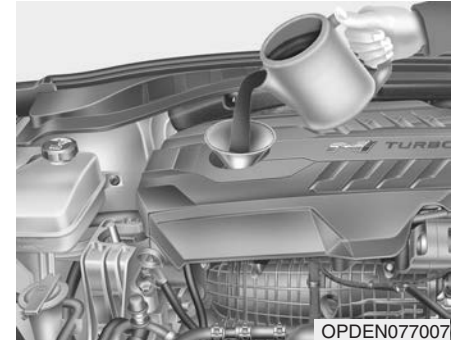
Engine oil is used for lubricating, cooling, and operating various hydraulic components in the engine. Engine oil consumption whilst driving is normal, and it is necessary to check and refill the engine oil regularly. Also, check and refill the oil level within the recommended maintenance schedule to prevent deterioration of oil performance.

Check the engine oil following the below procedure.

1. Follow all of the oil manufacturer's precautions.
2. Ensure the vehicle is on level ground in P (Park) with the parking brake set and the wheels blocked.
3. Turn the engine on and warm the engine up until the coolant temperature reaches a constant normal temperature.
4. Turn the engine off, remove the oil filler cap and pull the dipstick out. Wait for 15 minutes for the oil to return to the oil pan.
5. Wipe the dipstick clean and re-insert it fully.



6. Pull the dipstick out again and check the level.



7. If the oil level is below L, add enough oil to bring the level to F.

Use only the specified engine oil.  
**(Refer to “Recommended lubricants and capacities” in chapter 8.)**

#### **WARNING**

##### **Radiator hose**

**Be very careful not to touch the radiator hose when checking or adding engine oil as it may be hot enough to burn you.**

### NOTICE

To prevent damage to your engine:

- Do not spill engine oil when adding or changing engine oil. Wipe off spilled oil immediately.
- The engine oil consumption may increase whilst you break in a new vehicle and it will be stabilized after driving 4,000 miles (6,000 km).
- The engine oil consumption can be affected by driving habits, climate conditions, traffic conditions, oil quality, etc. Therefore, it is recommended that you inspect the engine oil level regularly and refill it if necessary.

### Checking the engine oil and filter



- We recommend that the engine oil and filter be replaced by a HYUNDAI authorised repairer.
- If the maintenance schedule to replace engine oil is exceeded, the engine oil performance may deteriorate, and the engine condition may be affected. Therefore, replace the engine oil according to the maintenance schedule.

- To keep the engine in optimal condition, use the recommended engine oil and filter. If the recommended engine oil and filter are not used, replace it according to the maintenance schedule under severe usage conditions.
- The purpose of the maintenance schedule for engine oil replacement is to prevent oil deterioration and it is irrelevant to oil consumption. Check and refill engine oil regularly.

### WARNING

**Used engine oil may cause irritation or cancer of the skin if left in contact with the skin for prolonged periods of time. Used engine oil contains chemicals that have caused cancer in laboratory animals. Always protect your skin by washing your hands thoroughly with soap and warm water as soon as possible after handling used oil.**

## ENGINE COOLANT

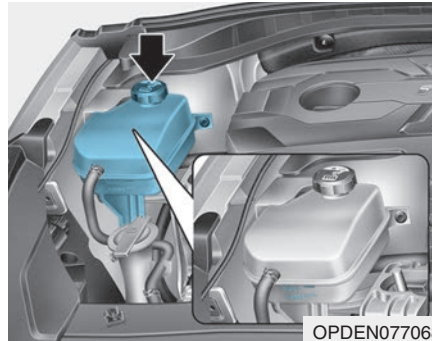
The high-pressure cooling system has a reservoir filled with year-round antifreeze coolant. The reservoir is filled at the factory.

Check the antifreeze protection and coolant concentration level at least once a year, at the beginning of the winter season, and before travelling to a colder climate.

### NOTICE

- **When the engine overheats from low engine coolant, suddenly adding engine coolant may cause cracks in the engine. To prevent damage, add engine coolant slowly in small quantities.**
- **Do not drive with no engine coolant. It may cause water pump failure and engine seizure, etc.**

## Checking the engine coolant level

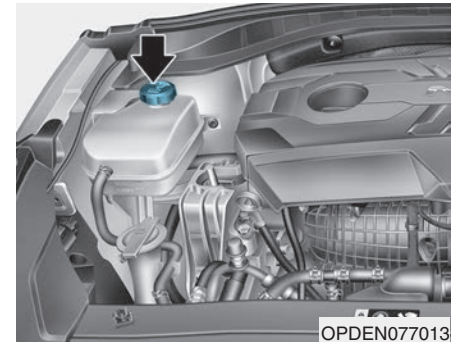


Check the condition and connections of all cooling system hoses and heater hoses. Replace any swollen or deteriorated hoses.

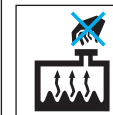
The coolant level should be filled between MAX and MIN (or F (Full) and L (Low)) marks on the side of the coolant reservoir when the engine is cool.

If the coolant level is low, add enough distilled (deionized) water. Bring the level to MAX (or F (Full)) but do not overfill.

If frequent additions are required, we recommend that the system be inspected by a HYUNDAI authorised repairer.



### ⚠ WARNING



**Never remove the coolant cap or the drain plug whilst the engine and radiator are hot. Hot coolant and steam may blow out under pressure, causing serious injury.**

**(Continued)**



(Continued)

Turn the engine off and wait until the engine cools down. Use extreme care when removing the coolant cap. Wrap a thick towel around it, and turn it counterclockwise slowly to the first stop. Step back whilst the pressure is released from the cooling system. When you are sure all the pressure has been released, press down on the cap, using a thick towel, and continue turning counterclockwise to remove it.

**⚠ WARNING**



The electric motor for the cooling fan may continue to operate or start up when the 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.

**Recommended engine coolant**

- When adding coolant, use only distilled (deionized) water for your vehicle and never mix hard water in the coolant filled at the factory. An incorrect coolant mixture can result in serious malfunction or engine damage.
- The engine in your vehicle has aluminium engine parts and must be protected by an ethylene-glycol with phosphate based 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 mixture percentage, refer to the following table.

Ambient Temperature	Mixture Percentage (volume)	
	Antifreeze	Water
-15°C (5°F)	35	65
-25°C (-13°F)	40	60
-35°C (-31°F)	50	50
-45°C (-49°F)	60	40

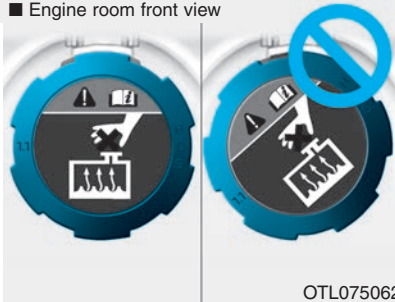
**i Information**

If in doubt about the mix ratio, a 50% water and 50% antifreeze mix is the easiest to mix together as it will be the same quantity of each. It is suitable to use for most temperature ranges of -35°C (-31°F) and higher.

## ⚠ WARNING

Make sure the coolant cap is properly closed after refilling coolant. Otherwise the engine could be overheated whilst driving.

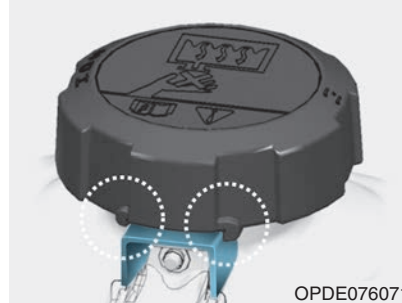
■ Engine room front view



1. Check if the coolant cap label is straight In front.

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2. Make sure that the tiny protrusions inside the coolant cap are securely interlocked.

## Changing the engine coolant

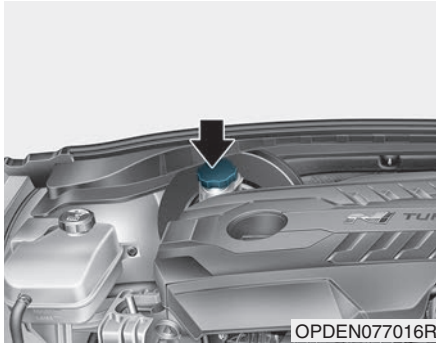
We recommend that coolant be changed by a HYUNDAI authorised repairer according to the maintenance schedule.

### NOTICE

To prevent damage to engine parts, put a thick towel around the engine coolant cap before refilling the coolant to prevent the coolant from overflowing into engine parts, such as the alternator.

## BRAKE/CLUTCH FLUID

### Checking the brake/clutch 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/clutch fluid, clean the area around the reservoir cap thoroughly to prevent brake/clutch fluid contamination.

If the level is low, add 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, we recommend that the system be checked by a HYUNDAI authorised repairer.

#### **i** Information

Use only the specified brake/clutch fluid. Refer to “Recommended lubricants and capacities” in chapter 8.

#### **i** Information

Before removing the brake/clutch filler cap, read the warning on the cap.

#### **i** Information

Clean the filler cap before removing. Use only DOT3 or DOT4 brake/clutch fluid from a sealed container.

#### **!** WARNING

If the brake/clutch system requires frequent additions of fluid this could indicate a leak in the brake/clutch system. We recommend that the vehicle be inspected by a HYUNDAI authorised repairer.

#### **!** WARNING

Do not let brake/clutch fluid enter into your eyes. If brake/clutch fluid gets in your eyes, flush your eyes with clean water for at least 15 minutes and get immediate medical attention.

**NOTICE**

- Do not allow brake/clutch fluid to contact the vehicle's body paint, as it will result in paint damage.
- NEVER use brake/clutch fluid which has been exposed to open air for an extended time, as its quality cannot be guaranteed. It should be disposed of properly.
- Don't put in the wrong type of fluid. A few drops of mineral-based oil, such as engine oil in your brake/clutch system can damage system parts.

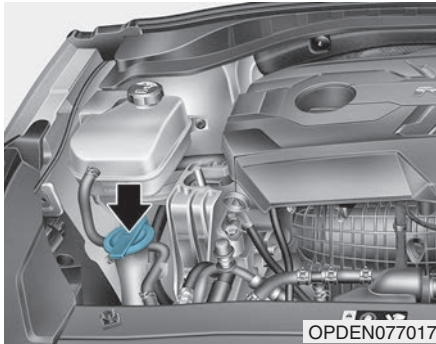
**CAUTION**

For the best performance of braking and ABS/ESC functions, you should use genuine brake fluid that conform to standards.

(Standards: SAE J1704 DOT-4 LV, ISO4925 CLASS-6 and FMVSS116 DOT-4)

## WASHER FLUID

### Checking the washer fluid level



Check the fluid level in the washer fluid reservoir and add fluid if necessary. Plain water may be used if washer fluid is not available. However, use washer solvent with antifreeze characteristics in cold climates to prevent freezing.

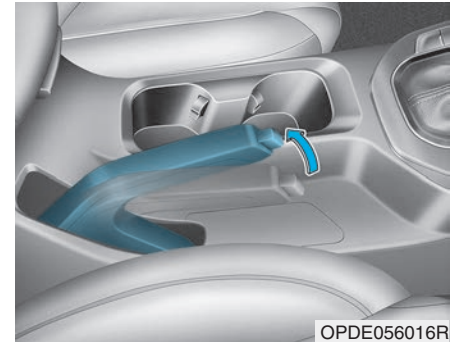
### WARNING

To prevent serious injury or death, take the following safety precautions when using washer fluid:

- Do not use 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 flames 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

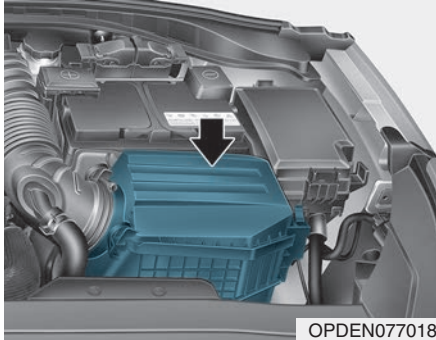


Check the stroke of the parking brake by counting the number of “clicks” heard whilst fully applying it from the released position. Also, the parking brake alone should securely hold the vehicle on a fairly steep grade. If the stroke is more or less than specified, we recommend that the system be serviced by a HYUNDAI authorised repairer.

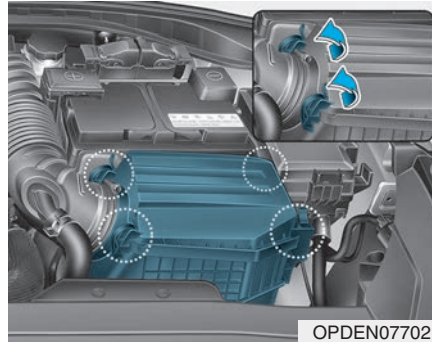
**Stroke : 5~6 “clicks” at a force of 20 kg (44 lbs, 196 N).**

## AIR CLEANER

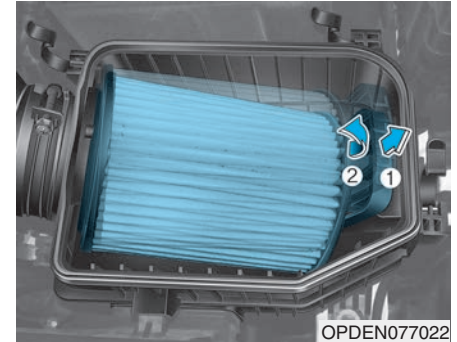
### Filter replacement



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.



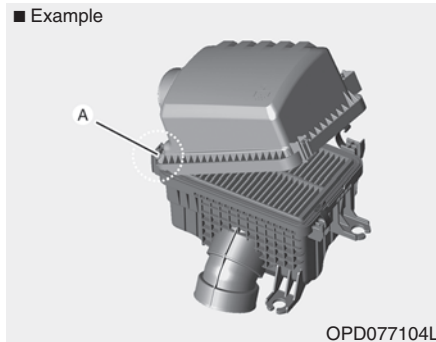
1. Loosen the air cleaner cover attaching clips and open the cover.



2. Pull out the part written PULL (1).
3. Pull out the air cleaner filter (2).
4. When installing, place the part written PULL (1) first, and then place the new air filter (2) in the original position.
5. Lock the cover with the cover attaching clips.
6. Check that the cover is firmly installed.

### **i** Information

■ Example



Be sure to insert the hinge (A) before locking the cover with the cover attaching clips.

### **i** Information

If the vehicle is operated in extremely dusty or sandy areas, replace the element more often than the usual recommended intervals.

### **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.
- For turbocharged vehicles, the engine and turbocharger are susceptible to damage seriously from even small foreign material, so when replacing the air cleaner filter, make sure that there is no foreign material in the intake passage.
- Have the air cleaner filter replaced by a professional workshop. We recommend to visit a HYUNDAI authorised repairer.

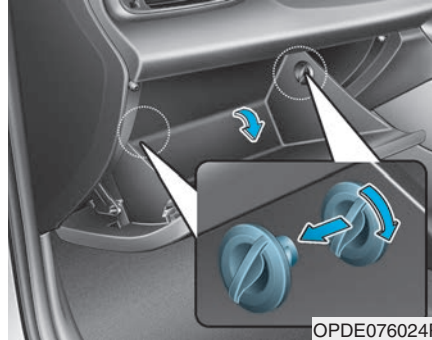
## CLIMATE CONTROL AIR FILTER

### Filter inspection

If the vehicle is operated in the severely air-polluted cities or on dusty rough roads for a long period, it should be inspected more frequently and replaced earlier. When you, the owner, replace the climate control air filter, replace it performing the following procedure, and be careful to avoid damaging other components.

Replace the filter according to the maintenance schedule.

### Filter replacement

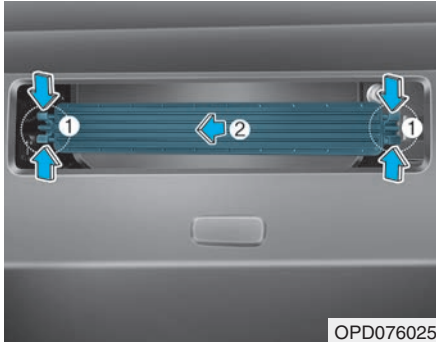


1. With the glove box open, remove the stoppers on both sides.

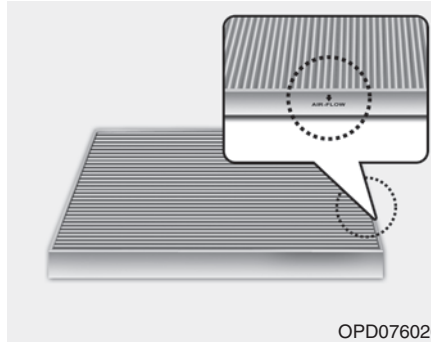


2. Remove the support strap (1).





3. Press and hold the lock (1) on both sides of the cover.
4. Pull out the cover (2).



5. Replace the climate control air filter.
6. Reassemble in the reverse order of disassembly.

### NOTICE

Install a new climate control air filter in the correct direction with the arrow symbol (↓) facing downwards, otherwise, it may be noisy and the effectiveness of the filter may be reduced.

## WIPER BLADES

### Blade inspection

Contamination of either the windscreen or the wiper blades with foreign matter can reduce the effectiveness of the windscreen wipers.

Common sources of contamination are insects, tree sap, and hot wax treatments used by some commercial car washes. If the blades are not wiping properly, clean both the window and the blades with a good cleaner or mild detergent, and rinse thoroughly with clean water.

#### NOTICE

**To prevent damage to the wiper blades, arms or other components, do not:**

- Use petrol, 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 windscreen difficult to clean.

#### **i** Information

Wiper blades are consumable item and normal wear of the wipers may not be covered by your vehicle warranty.

### Blade replacement

When the wipers no longer clean adequately, the blades may be worn or cracked, and require replacement.

#### NOTICE

**To prevent damage to the wiper arms or other components, do not attempt to move the wipers manually.**

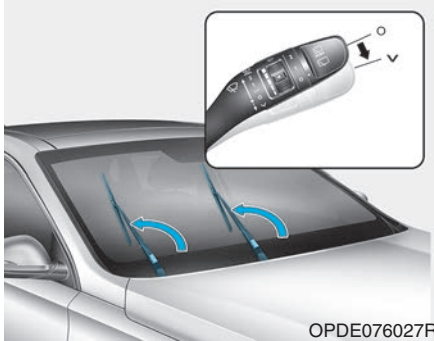
#### NOTICE

**The use of a non-specified wiper blade could result in wiper malfunction and failure.**

#### NOTICE

- In order to prevent damage to the bonnet and the wiper arms, the wiper arms should only be lifted when in the top wiping position.
- Always return the wiper arms to the windscreen before driving.

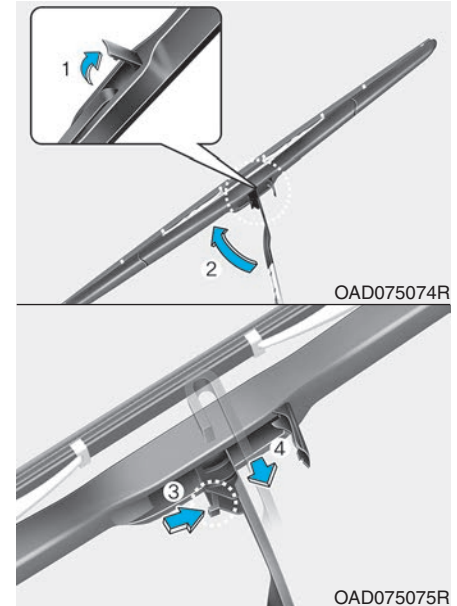
### Front windscreen wiper service positions



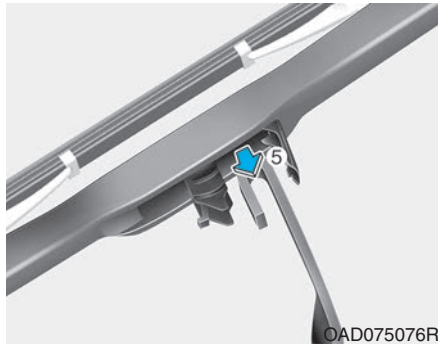
This vehicle has a "hidden" wiper design which means that the wipers cannot be lifted when they are in their bottom resting position.

1. Within 20 seconds of turning off the engine, move the wiper lever down and hold it to the √ position for about 2 seconds until the wipers move to the top wiper position.
2. At this time you can lift the wipers off the windscreen.
3. Gently put the wipers back down onto the windscreen.

4. Turn the wipers to any ON position to return the wipers to the bottom resting position.



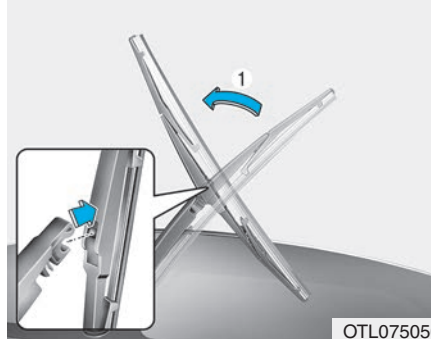
1. Lift up the wiper blade clip (1). Then lift up the wiper blade (2).
2. Whilst pushing the lock (3), pull down the wiper blade (4).



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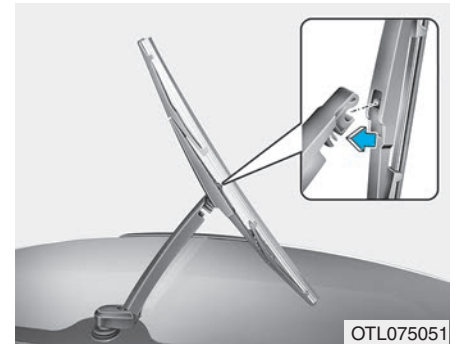
3. Remove the wiper blade from the wiper arm (5).
4. Install a new wiper blade assembly in the reverse order of removal.
5. Return the wiper arm on the windscreen.

### Rear window wiper blade



OTL075050

1. Raise the wiper arm and pull out the wiper blade assembly.



OTL075051

2. Install the new blade assembly by inserting the centre part into the slot in the wiper arm until it clicks into place.
3. Make sure the blade assembly is installed firmly by trying to pull it slightly.

To prevent damage to the wiper arms or other components, we recommend that the wiper blades be replaced by a HYUNDAI authorised repairer.

## BATTERY

### WARNING

To prevent **SERIOUS INJURY** or **DEATH** to you or bystanders, always follow these precautions when working near or handling the battery:



Always read and follow instructions carefully when handling a battery.



Wear eye protection designed to protect the eyes from acid splashes.



Keep all flames, sparks, or smoking materials away from the battery.



Hydrogen is always present in battery cells, is highly combustible, and may explode if ignited.



Keep batteries out of reach of children.

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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.

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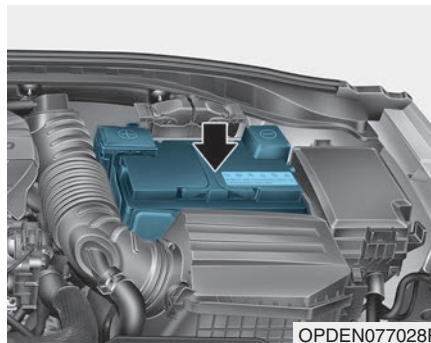
- **NEVER** attempt to recharge the battery when the vehicle's battery cables are connected to the battery.
- The electrical ignition system works with high voltage. **NEVER** touch these components with the engine running or when the ignition switch is in the ON position.

## NOTICE

Always follow these instructions when handling your vehicle's battery to prevent damage to your battery:

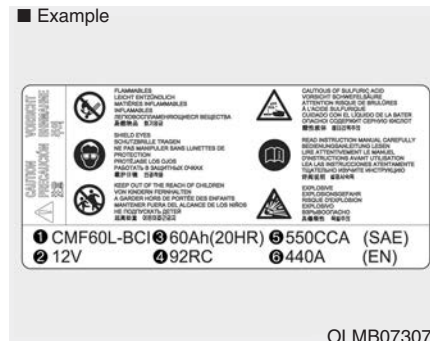
- When you do not use the vehicle for a long time in a low temperature area, disconnect the battery and keep it indoors.
- Always charge the battery fully to prevent battery case damage in low temperature areas.
- Prevent liquid from wetting the battery terminals. The performance of the battery may be degraded, and may cause injury. Be cautious when loading liquid in the bonnet.
- Do not tilt the battery.
- If you connect unauthorised electronic devices to the battery, the battery may be discharged. Never use unauthorised devices.

## For best battery service



- Keep the battery securely mounted.
- Keep the battery top clean and dry.
- Keep the terminals and connections clean, tight, and coated with petroleum jelly or terminal grease.
- Rinse any spilled electrolyte from the battery immediately with a solution of water and baking soda.
- If the vehicle is not going to be used for an extended time, disconnect the battery cables.

## Battery capacity label



The actual battery label in the vehicle may differ from the illustration.

1. CMF60L-BCI : The HYUNDAI model name of battery
2. 12V : The nominal voltage
3. 60Ah(20HR) : The nominal capacity (in Ampere hours)
4. 92RC : The nominal reserve capacity (in min.)
5. 550CCA : The cold-test current in amperes by SAE
6. 440A : The cold-test current in amperes by EN

### Battery recharging

#### *By battery charger*

Your vehicle has a maintenance-free, calcium-based battery.

- If the battery becomes discharged in a short time (because, for example, the headlights or interior lights were left on whilst the vehicle was not in use), recharge it by slow charging (trickle) for 10 hours.
- If the battery gradually discharges because of high electric load whilst the vehicle is being used, recharge it at 20-30A for two hours.

#### **WARNING**

**Always follow these instructions when recharging your vehicle's battery to avoid the risk of **SERIOUS INJURY** or **DEATH** from explosions or acid burns:**

- **Before performing maintenance or recharging the battery, turn off all accessories and 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.**

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**(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.**

## CAUTION

### AGM battery (if equipped)

- **Absorbent Glass Matt (AGM) batteries are maintenance-free and we recommend that the AGM battery be serviced by a HYUNDAI authorised repairer. For charging your AGM battery, use only fully automatic battery chargers that are specially developed for AGM batteries.**
- **When replacing the AGM battery, we recommend that you use parts for replacement from a HYUNDAI authorised repairer.**
- **Do not open or remove the cap on top of the battery. This may cause leaks of internal electrolyte that could result in severe injury.**

### *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.

### Information



**An inappropriately disposed battery can be harmful to the environment and human health.**

**Dispose of the battery according to your local law(s) or regulations.**

### Reset items

The following items may need to be reset after the battery has been discharged or the battery has been disconnected.

- Auto up/down window
- Sunroof
- Trip computer
- Climate control system
- Driver position memory system
- Clock
- Audio system



## TYRES AND WHEELS

### WARNING

Tyre 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 tyres monthly for proper inflation as well as wear and damage.
- The recommended cold tyre pressure for your vehicle can be found in this manual and on the tyre label located on the driver's side centre pillar. Always use a tyre pressure gauge to measure tyre pressure. Tyres 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 tyres on your vehicle.

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- Replace tyres that are worn, show uneven wear, or are damaged. Worn tyres can cause loss of braking effectiveness, steering control, or traction.
- **ALWAYS** replace tyres with the same size as each tyre that was originally supplied with this vehicle. Using tyres 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.

### Information - Power Hop

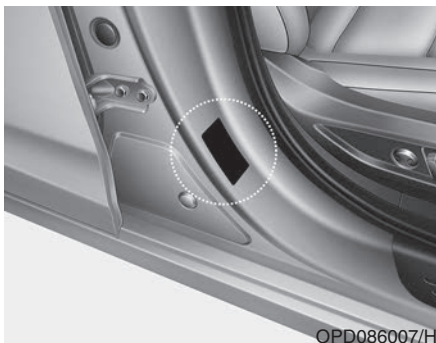
When fully accelerating the vehicle from standstill, a front tyre oscillation called "Power Hop" of i30 N may occur due to the high torque of engine and the characteristics of high performance tyre. This is affected by road condition and temperatures. Additionally it is a normal phenomenon in powerful front-wheel drive vehicles. i30 N will act on this phenomenon with the traction control in all ESC modes with the main focus on high performance character.

### Information - Wheel nut

When the wheel is detached and reassembled frequently, replace all used wheel nuts with new wheel nuts or accessory wheel nut.

## Tyre care

For proper maintenance, safety, and maximum fuel economy, you must always maintain recommended tyre 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 centre pillar.

## Recommended cold tyre inflation pressures

All tyre pressures (including the spare) should be checked when the tyres are cold. "Cold tyres" means the vehicle has not been driven for at least three hours or has been driven for less than 1 mile (1.6 km).

Warm tyres normally exceed recommended cold tyre pressures by 4 to 6 psi (28 to 41 kPa). Do not release air from warm tyres to adjust the pressure or the tyres will be under-inflated. For recommended inflation pressure, refer to "Tyre and Wheels" in chapter 8.

### WARNING

**Recommended pressures must be maintained for the best ride, vehicle handling, and minimum tyre wear.**

**Over-inflation or under-inflation can reduce tyre life, adversely affect vehicle handling, and lead to sudden tyre 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 tyre failures that can result in the loss of vehicle control resulting in an accident. This risk is much higher on hot days and when driving for long periods at high speeds.**

 **CAUTION**

- **Under-inflation results in excessive wear, poor handling and reduced fuel economy. Wheel deformation is also possible. Keep your tyre pressures at the proper levels. If a tyre frequently needs refilling, we recommend it be checked by a HYUNDAI authorised repairer.**
- **Over-inflation produces a harsh ride, excessive wear at the centre of the tyre tread, and a greater possibility of damage from road hazards.**

### Check tyre inflation pressure

Check your tyres, including the spare tyre, once a month or more.

#### *How to check*

Use a good quality tyre pressure gauge to check tyre pressure. You can not tell if your tyres are properly inflated simply by looking at them. Radial tyres may look properly inflated when they are under-inflated.

Remove the valve cap from the tyre valve stem. Press the tyre gauge firmly onto the valve to get a pressure measurement. If the cold tyre inflation pressure matches the recommended pressure on the tyre 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 tyre, release air by pushing on the metal stem in the centre of the tyre valve.

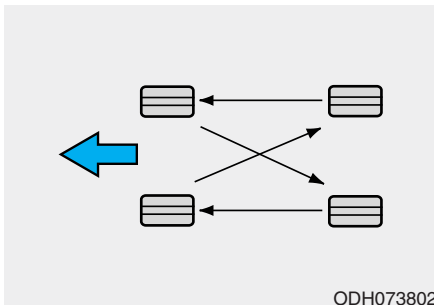
Recheck the tyre pressure with the tyre gauge. Be sure to put the valve caps back on the valve stems. Without the valve cap, dirt or moisture could get into the valve core and cause air leakage. If a valve cap is missing, install a new one as soon as possible.

### Tyre rotation

To equalize tread wear, HYUNDAI recommends that the tyres be rotated every 7,500 miles (12,000 km) or sooner if irregular wear develops.

During rotation, check the tyres for correct balance.

When rotating tyres, check for uneven wear and damage. Abnormal wear is usually caused by incorrect tyre pressure, improper wheel alignment, out-of-balance wheels, severe braking or severe cornering. Look for bumps or bulges in the tread or side of the tyre. Replace the tyre if you find any of these conditions. Replace the tyre if fabric or cord is visible. After rotation, be sure to bring the front and rear tyre pressures to specification and check lug nut tightness (proper torque is 11~13 kgf·m [79~94 lbf·ft]).



Disc brake pads should be inspected for wear whenever tyres are rotated.

### **i** Information

The outside and inside of the unsymmetrical tyre is distinguishable. When installing an unsymmetrical tyre, be sure to install the side marked "outside" face the outside. If the side marked "inside" is installed on the outside, it will have a negative effect on vehicle performance.

### **!** WARNING

- Do not use the compact spare tyre for tyre rotation.
- Do not mix bias ply and radial ply tyres under any circumstances. This may cause unusual handling characteristics that may cause loss of vehicle control resulting in an accident.

### Wheel alignment and tyre balance

The wheels on your vehicle were aligned and balanced carefully at the factory to give you the longest tyre life and best overall performance.

In most cases, you will not need to have your wheels aligned again. However, if you notice unusual tyre wear or your vehicle pulling one way or the other, the alignment may need to be reset.

If you notice your vehicle vibrating when driving on a smooth road, your wheels may need to be rebalanced.

### **NOTICE**

Incorrect wheel weights can damage your vehicle's aluminium wheels. Use only approved wheel weights.

## Tyre replacement



If the tyre is worn evenly, a tread wear indicator will appear as a solid band across the tread. This shows there is less than 1.6 mm (1/16 in.) of tread left on the tyre. Replace the tyre when this happens.

Do not wait for the band to appear across the entire tread before replacing the tyre.

### **⚠ WARNING**

To reduce the risk of **DEATH** or **SERIOUS INJURY**:

- Replace tyres that are worn, show uneven wear, or are damaged. Worn tyres can cause loss of braking effectiveness, steering control, and traction.
- Always replace tyres with the same size as each tyre that was originally supplied with this vehicle. Using tyres 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.

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- When replacing tyres (or wheels), it is recommended to replace the two front or two rear tyres (or wheels) as a pair. Replacing just one tyre can seriously affect your vehicle's handling. If only replacing one pair of tyres, it is recommended to install the pair of new tyres on the rear axle.
- Tyres degrade over time, even when they are not being used. Regardless of the remaining tread, HYUNDAI recommends that tyres 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 tyre failure, which could lead to a loss of vehicle control resulting in an accident.

### **Compact spare tyre replacement (if equipped)**

A compact spare tyre has a shorter tread life than a regular size tyre. Replace it when you can see the tread wear indicator bars on the tyre. The replacement compact spare tyre should be the same size and design tyre as the one provided with your new vehicle and should be mounted on the same compact spare tyre wheel. The compact spare tyre is not designed to be mounted on a regular size wheel, and the compact spare tyre wheel is not designed for mounting a regular size tyre.

#### **⚠ WARNING**

**The original tyre 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 tyre is for emergency use only. Do not operate your vehicle over 50 mph (80 km/h) when using the compact spare tyre.**

### **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.

### **Tyre traction**

Tyre traction can be reduced if you drive on worn tyres, tyres that are improperly inflated or on slippery road surfaces. Tyres 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.

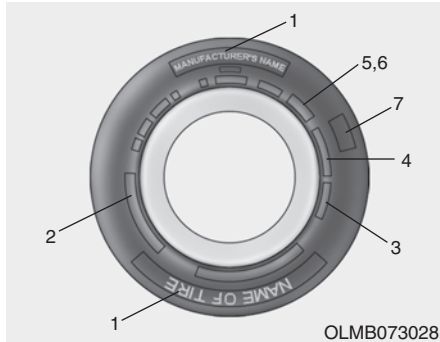
### **Tyre maintenance**

In addition to proper inflation, correct wheel alignment helps to decrease tyre wear. If you find a tyre is worn unevenly, have your repairer check the wheel alignment.

When you have new tyres installed, make sure they are balanced. This will increase vehicle ride comfort and tyre life. Additionally, a tyre should always be rebalanced if it is removed from the wheel.

### **Tyre sidewall labelling**

This information identifies and describes the fundamental characteristics of the tyre and also provides the tyre identification number (TIN) for safety standard certification. The TIN can be used to identify the tyre in case of a recall.



### 1. **Manufacturer or brand name**

Manufacturer or brand name is shown.

### 2. **Tyre size designation**

A tyre's sidewall is marked with a tyre size designation. You will need this information when selecting replacement tyres for your car. The following explains what the letters and numbers in the tyre size designation mean.

Example tyre size designation:

(These numbers are provided as an example only; your tyre size designation could vary depending on your vehicle.)

### **235/35R19 91Y**

235 - Tyre width in millimeters.

35 - Aspect ratio. The tyre's section height as a percentage of its width.

R - Tyre construction code (Radial).

19 - Rim diameter in inches.

91 - Load Index, a numerical code associated with the maximum load the tyre can carry.

Y - Speed Rating Symbol. See the speed rating chart in this section for additional information.

### **Wheel size designation**

Wheels are also marked with important information that you need if you ever have to replace one. The following explains what the letters and numbers in the wheel size designation mean.

Example wheel size designation:

### **8.0JX19**

8.0 - Rim width in inches.

J - Rim contour designation.

19 - Rim diameter in inches.

### Tyre speed ratings

The chart below lists many of the different speed ratings currently being used for passenger vehicle tyres. The speed rating is part of the tyre size designation on the sidewall of the tyre. This symbol corresponds to that tyre's designed maximum safe operating speed.

Speed Rating Symbol	Maximum Speed
S	112 mph (180 km/h)
T	118 mph (190 km/h)
H	130 mph (210 km/h)
V	149 mph (240 km/h)
W	168 mph (270 km/h)
Y	186 mph (300 km/h)

### 3. Checking tyre life (TIN : Tyre Identification Number)

Any tyres that are over six years old, based on the manufacturing date, (including the spare tyre) should be replaced by new ones. You can find the manufacturing date on the tyre sidewall (possibly on the inside of the wheel), displaying the DOT Code. The DOT Code is a series of numbers on a tyre 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 shows a plant code number, tyre size and tread pattern and the last four numbers indicate week and year manufactured.

For example:

DOT XXXX XXXX 1522 represents that the tyre was produced in the 15th week of 2022.

### 4. Tyre ply composition and material

The number of layers or plies of rubber-coated fabric in the tyre. Tyre manufacturers also must indicate the materials in the tyre, 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 tyre. Do not exceed the maximum permissible inflation pressure. Refer to the Tyre 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 tyre. When replacing the tyres on the vehicle, always use a tyre that has the same load rating as the factory installed tyre.

### 7. Uniform tyre quality grading

Quality grades can be found where applicable on the tyre 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 tyre when tested under controlled conditions on a specified government test course. For example, a tyre graded 150 would wear one-and-a-half times (1½) as well on the government course as a tyre graded 100.

The relative performance of tyres 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 tyres. The tyres 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 tyre's ability to stop on wet pavement as measured under controlled conditions on specified government test surfaces of asphalt and concrete. A tyre marked C may have poor traction performance.

#### WARNING

**The traction grade assigned to this tyre is based on straight-ahead braking traction tests, and does not include acceleration, cornering, hydroplaning, or peak traction characteristics.**

### Temperature - A, B & C

The temperature grades are A (the highest), B and C representing the tyre'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 tyre to degenerate and reduce tyre life, and excessive temperature can lead to sudden tyre failure. Grades B and A represent higher levels of performance on the laboratory test wheel than the minimum required by law.

#### WARNING

The temperature grade for this tyre is established for a tyre 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 tyre failure. This may cause loss of vehicle control resulting in an accident.

### Low aspect ratio tyres

A low aspect ratio tyre, of which the aspect ratio is lower than 50, is designed for a sporty-look vehicle. The low aspect ratio is to optimize handling and braking. Thus, it may be uncomfortable to ride and it may generate noises, in comparison with a normal tyre.

#### CAUTION

The side wall of a low aspect ratio tyre is shorter than the normal one. Thus, the low-aspect wheel and tyre are easily damaged. Follow the below instructions.

- When driving on a rough road or driving off a road, be careful not to damage the tyres and wheels. After driving, inspect the tyres and wheels.
- When passing over a pothole, speed bump, manhole, or kerb stone, slowly drive the vehicle not to damage the tyres and wheels.

(Continued)

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- When there is an impact on a tyre, inspect the tyre condition. Or, contact a HYUNDAI authorised repairer.
- Inspect the tyre condition and pressure every 1,800 miles (3,000 km) to prevent a tyre damage.
- It is difficult to recognise a tyre damage only with your eyes. When there is a slight hint of a tyre damage, check and replace the tyre to prevent the damage caused by air leakage.
- When a tyre is damaged whilst driving on a rough road, off a road, or over obstacles, such as a pothole, manhole, or kerb stone, your warranty does not cover the damage.
- The tyre information is specified on the tyre side wall.

## FUSES

### ■ Blade type



Normal



Blown

### ■ Cartridge type



Normal



Blown

### ■ Multi fuse



Normal



Blown



Normal



Blown

OLF074075

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.

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 a HYUNDAI authorised repairer.

### **i** Information

Three kinds of fuses are used: blade type for lower amperage rating, cartridge type, and multi fuse for higher amperage ratings.

### **⚠** WARNING

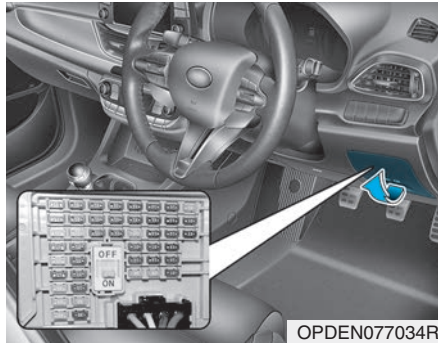
**NEVER** replace a fuse with anything but another fuse of the same rating.

- A higher capacity fuse could cause damage and possibly cause a fire.
- Do not install a wire or aluminium foil instead of the proper fuse - even as a temporary repair. It may cause extensive wiring damage and possibly a fire.

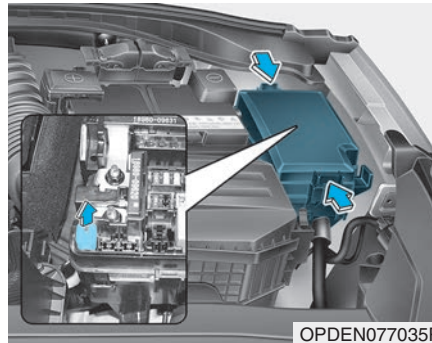
### **NOTICE**

Do not use a screwdriver or any other metal object to remove fuses because it may cause a short circuit and damage the system.

## Instrument panel fuse replacement



1. Turn the vehicle off.
2. Turn all other switches OFF.
3. Open the fuse panel cover.
4. Refer to the label on the inside of the fuse panel cover to locate the suspected fuse location.

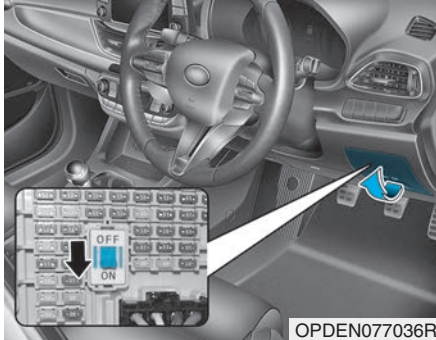


5. Pull the suspected fuse straight out. Use the removal tool provided in the engine compartment fuses panel.
6. Check the removed fuse; replace it if it is blown. Spare fuses are provided in the instrument panel fuse panels (or in the engine compartment fuse panel).
7. Push in a new fuse of the same rating, and make sure it fits tightly in the clips. If it fits loosely, consult a HYUNDAI authorised repairer.

In an emergency, if you do not have a spare fuse, use a fuse of the same rating from a circuit you may not need for operating the vehicle, such as the cigarette lighter fuse.

If the headlamps or other electrical components do not work and the fuses are undamaged, check the fuse panel in the engine compartment. If a fuse is blown, it must be replaced with the same rating.

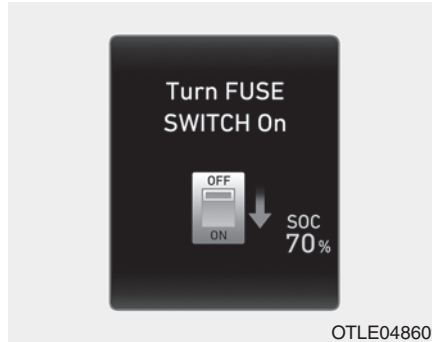
### Fuse switch



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

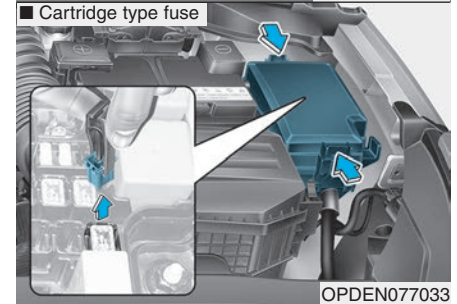
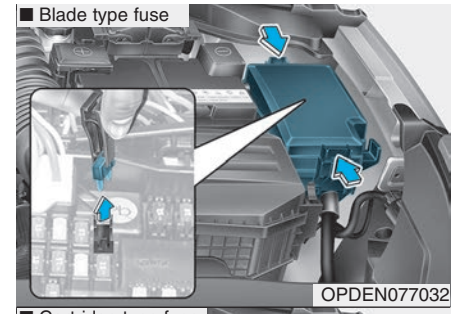


If the fuse switch is OFF, “Turn on FUSE SWITCH” message will appear.

### NOTICE

- Always place the fuse switch in the ON position whilst driving the vehicle.
- Do not move the transportation fuse switch repeatedly. The fuse switch may be damaged.

### Engine compartment panel fuse replacement



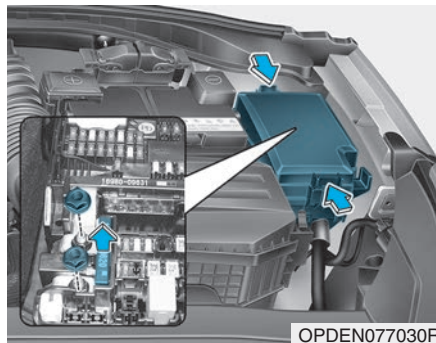
1. Turn the vehicle off.
2. Turn all other switches OFF.
3. Remove the fuse panel cover by pressing the tab and pulling up.

4. Check the removed fuse; replace it if it is blown. To remove or insert the fuse, use the fuse puller in the engine compartment fuse panel.
5. Push in a new fuse of the same rating, and make sure it fits tightly in the clips. If it fits loosely, consult a HYUNDAI authorised repairer.

#### NOTICE

After checking the fuse panel in the engine compartment, securely install the fuse panel cover. You may hear a clicking sound if the cover is securely latched. If it is not securely latched, electrical failure may occur from water contact.

#### Main fuse

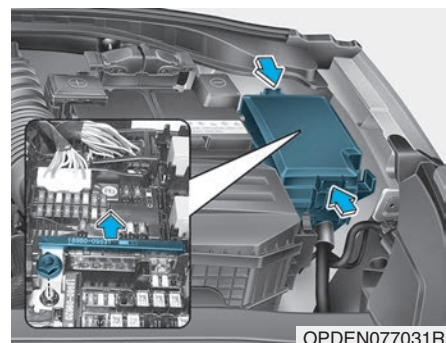


1. Turn the engine off.
2. Turn all other switches off.
3. Remove the fuse panel cover by pressing the tab and pulling it up.
4. Remove the nuts shown in the picture above.
5. Replace the fuse with a new one of the same rating.
6. Reinstall in the reverse order of removal.

#### **i** Information

If the main fuse is blown, we recommend that you consult a HYUNDAI authorised repairer.

#### Multi fuse



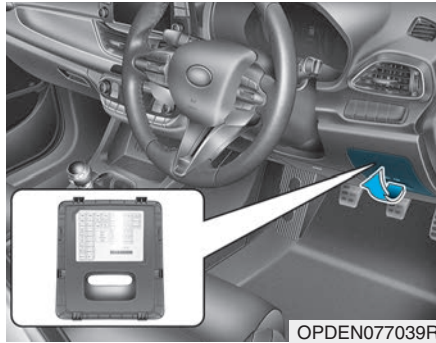
1. Turn the vehicle off.
2. Disconnect the negative battery cable.
3. Remove the fuse panel cover by pressing the tab and pulling it up.
4. Remove the nuts shown in the picture above.
5. Replace the fuse with a new one of the same rating.
6. Reinstall in the reverse order of removal.

If the multi fuse is blown, we recommend that you consult a HYUNDAI authorised repairer.



## Fuse/Relay panel description

### Driver's side fuse panel

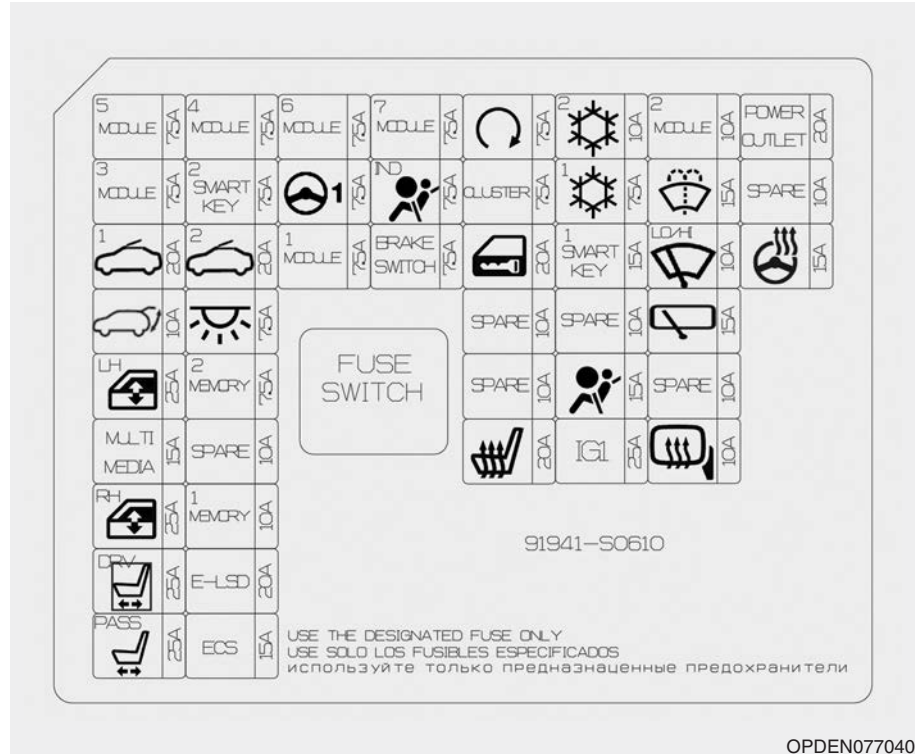


OPDEN077039R

Inside the fuse/relay box covers, you can find the fuse/relay label describing fuse/relay names and ratings.








### **i** Information

Not all fuse panel descriptions in this manual may be applicable to your vehicle. It is accurate at the time of printing. When you inspect the fuse box on your vehicle, refer to the fuse box label.






OPDEN077040

## Driver's side fuse Panel

Fuse No.	Fuse Name	Symbol	Fuse Rating	Circuit Protected
F1	MODULE 5	<sup>5</sup> MODULE	7.5A	Electro Chromic Mirror, MTS E-Call Module, Audio, A/V & Navigation Head Unit, A/C Control Module, A/T Shift Lever Indicator, Console Switch RH, DC-DC Converter, Head Lamp LH/RH, Auto Head Lamp Levelling Device Module, Front Seat Warmer Control Module, Driver IMS Module
F2	MODULE 3	<sup>3</sup> MODULE	7.5A	Driver/Passenger Door Module, BCM
F3	SUNROOF 1	<sup>1</sup> 	20A	Panorama Sunroof
F4	TAILGATE		10A	Tail Gate Relay
F5	POWER WINDOW LH	<sup>LH</sup> 	25A	Power Window LH Relay, Driver/Passenger Safety Window Module, Rear Safety Window Module LH
F6	MULTIMEDIA	<b>MULTI MEDIA</b>	15A	Audio, A/V & Navigation Head Unit, DC-DC Converter
F7	POWER WINDOW RH	<sup>RH</sup> 	25A	Power Window RH Relay, Driver/Passenger Safety Window Module, Rear Safety Window Module RH
F8	POWER SEAT DRIVER	<sup>DRV</sup> 	25A	Driver Seat Manual Switch, Driver IMS Module
F9	POWER SEAT PASSENGER	<sup>PASS</sup> 	25A	Passenger Seat Manual Switch
F10	MODULE 4	<sup>4</sup> MODULE	7.5A	Lane Keeping Assist Module, Stop Lamp Switch, BCM, LSD ECU, ESC Unit
F11	SMART KEY 2	<sup>2</sup> SMART KEY	7.5A	Smart Key Control Module, Immobiliser Module
F12	SUNROOF 2	<sup>2</sup> 	20A	Panorama Sunroof











Driver's side fuse Panel





Fuse No.	Fuse Name	Symbol	Fuse Rating	Circuit Protected
F13	INTERIOR LAMP		7.5A	Wireless Charger, Vanity Lamp LH/RH, Room Lamp, Overhead Console Lamp, Personal Lamp LH/RH, Rain Sensor, Ignition Key Ill. & Door Warning Switch, Glove Box Lamp, Luggage Lamp, Rain sensor
F14	MEMORY 2	<sup>2</sup> MEMORY	7.5A	MTS E-Call Module
F16	MEMORY 1	<sup>1</sup> MEMORY	10A	Driver/Passenger Door Module, Driver IMS Module, BCM, A/C Control Module, Instrument Cluster, Auto Light & Photo Sensor, ICM Relay Box (Outside Mirror Folding/Unfolding Relay)
F17	E-LSD	E-LSD	20A	LSD ECU
F18	ECS	ECS	15A	ECS Unit
F19	MODULE 6	<sup>6</sup> MODULE	7.5A	Smart Key Control Module, BCM
F20	MDPS *1	 1	7.5A	MDPS Unit, Steering Angle Sensor
F21	MODULE 1	<sup>1</sup> MODULE	7.5A	Hazard Switch, Centre Door Lock Switch, Driver/Passenger Door Module, Driver/Passenger Power Outside Mirror, Driver/Passenger Smart Key Outside Handle, Data Link Connector
F22	MODULE 7	<sup>7</sup> MODULE	7.5A	Front Seat Warmer Control Module, ESG Unit, Cooling Fan Motor, Nozzle Heater
F23	AIRBAG INDICATOR		7.5A	Instrument Cluster, Centre Door Lock Switch
F24	BRAKE SWITCH	<b>BRAKE SWITCH</b>	7.5A	Smart Key Control Module, Stop Lamp Switch

\*1 : MDPS (Motor Driven Power Steering) is the same as EPS (Electric Power Steering)

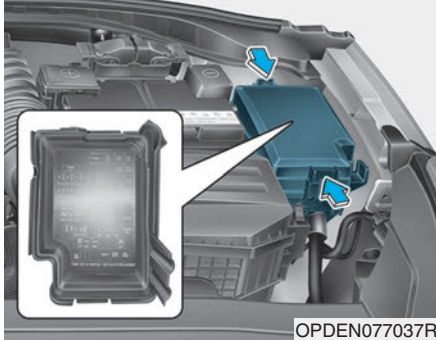
## Driver's side fuse Panel

Fuse No.	Fuse Name	Symbol	Fuse Rating	Circuit Protected
F25	START		7.5A	Smart Key Control Module, Engine Room Junction Block (RLY.4)
F26	CLUSTER	CLUSTER	7.5A	Instrument Cluster
F27	DOOR LOCK		20A	Door Lock/Unlock Relay, ICM Relay Box (Dead Lock Relay)
F30	SEAT HEATER FRONT		20A	Front Seat Warmer Control Module
F31	AIR CONDITIONER 2	<sup>2</sup> 	10A	A/C Control Module, ECM, Blower Motor, Engine Room Junction Block (RLY.10)
F32	AIR CONDITIONER 1	<sup>1</sup> 	7.5A	A/C Control Module, Engine Room Junction Block (RLY.10/11)
F33	SMART KEY 1	<sup>1</sup> SMART KEY	15A	Smart Key Control Module, Immobiliser Module
F35	AIRBAG		15A	SRS Control Module
F36	IGNITION 1	IG1	25A	PCB Block (F45/F46/F47)
F37	MODULE 2	<sup>2</sup> MODULE	10A	Wireless Charger, MTS E-Call Module, Smart Key Control Module, BCM, Audio, A/V & Navigation Head Unit, DC-DC Converter, Power Outside Mirror Switch, Engine Room Junction Block (RLY.14)
F38	WASHER		15A	Multifunction Switch
F39	WIPER	<sup>LO/HI</sup> 	10A	ECM, BCM

### Driver's side fuse Panel

Fuse No.	Fuse Name	Symbol	Fuse Rating	Circuit Protected
F40	REAR WIPER		15A	Rear Wiper Relay
F42	MIRROR HEATED		10A	Driver/Passenger Power Outside Mirror, A/C Control Module, ECM/PCM
F43	POWER OUTLET	POWER OUTLET 	20A	Rear Power Outlet #2
F45	HEATED STEERING		15A	BCM

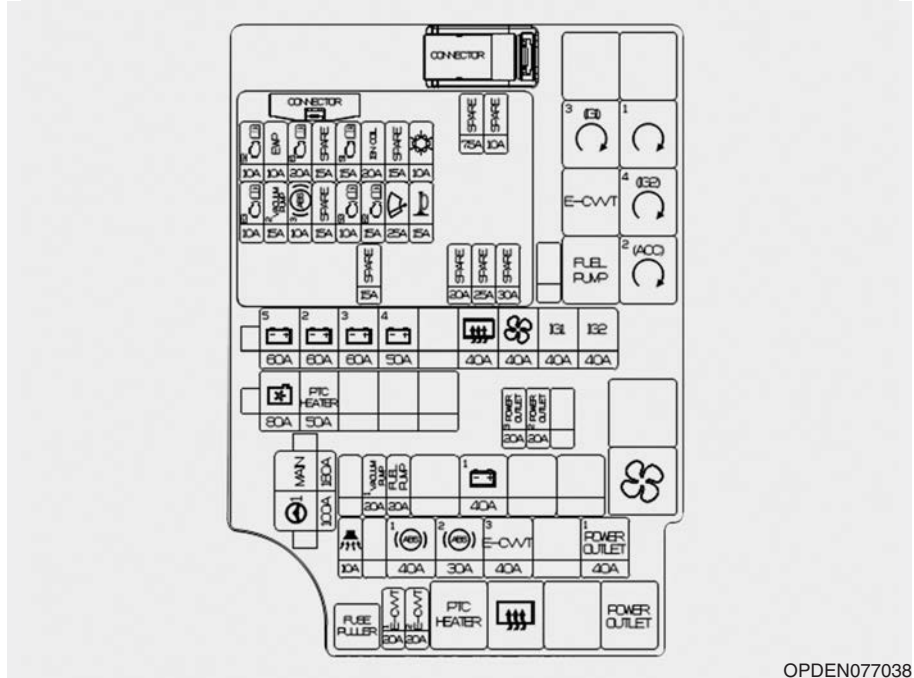
## Engine compartment fuse panel









Inside the fuse/relay box covers, you can find the fuse/relay label describing fuse/relay names and ratings.

### **i** Information










Not all fuse panel descriptions in this manual may be applicable to your vehicle. It is accurate at the time of printing. When you inspect the fuse box on your vehicle, refer to the fuse box label.



### Engine compartment fuse panel





Relay No.	Symbol	Relay Name
RLY. 3	<sup>3</sup> (IG1) 	PDM #3 (IG1) Relay
RLY. 4	<sup>1</sup> 	START Relay
RLY. 5	E-CVVT	E-CVVT Relay
RLY. 6	<sup>4</sup> (IG2) 	PDM #4 (IG2) Relay
RLY. 7	FUEL PUMP	FUEL PUMP Relay
RLY.8	<sup>2</sup> (ACC) 	PDM #2 (ACC) Relay
RLY. 10		BLOWER Relay
RLY. 11	PTC HEATER	PTC HEATER #1 Relay
RLY. 12		REAR DEFOGGER Relay
RLY. 14	POWER OUTLET	POWER OUTLET Relay

## Engine compartment fuse panel

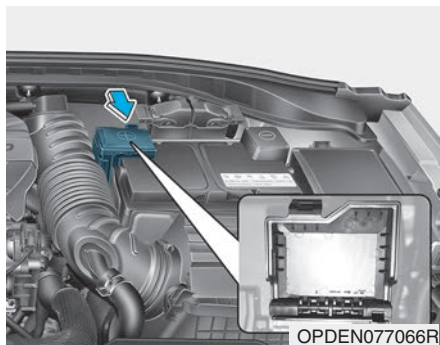
Fuse No.	Fuse Name	Symbol	Fuse Rating	Circuit Protected
F1	MAIN	MAIN	180A	Fuse : F27, F29, F30, F33
F2	MDPS 1 *1	 <sup>1</sup>	100A	MDPS Unit
F3	B+5	 <sup>5</sup>	60A	PCB Block (Fuse : F44, F50, F51, F52, Engine Control Relay)
F4	B+2	 <sup>2</sup>	60A	IGPM (Fuse : F30, IPS0, IPS1, IPS2)
F5	B+3	 <sup>3</sup>	60A	IGPM (IPS3, IPS4, IPS5, IPS6, IPS7, IPS8)
F6	B+4	 <sup>4</sup>	60A	IGPM (Fuse : F3, F4, F5, F7, F8, F9, F12, F17, F18)
F8	REAR HEATED		40A	RLY.12
F9	BLOWER		40A	RLY.10
F10	IGNITION 1	IG1	40A	Ignition Switch, Engine Room Junction Block (RLY.3, RLY.8)
F11	IGNITION 2	IG2	40A	Ignition Switch, Engine Room Junction Block (RLY.4, RLY.6)
F12	COOLING FAN		80A	Cooling Fan Motor
F13	PTC HEATER 1	 <sup>1</sup> PTC HEATER	50A	RLY.11

\*1 : MDPS (Motor Driven Power Steering) is the same as EPS (Electric Power Steering)

## Engine compartment fuse panel

Fuse No.	Fuse Name	Symbol	Fuse Rating	Circuit Protected
F17	POWER OUTLET 3	<sup>3</sup> POWER OUTLET	20A	Rear Power Outlet
F18	POWER OUTLET 2	<sup>2</sup> POWER OUTLET	20A	Front Power Outlet
F21	VACUUM PUMP 1	<sup>1</sup> VACUUM PUMP	20A	Vacuum Pump
F22	FUEL PUMP	FUEL PUMP	20A	RLY.7
F24	B+1	<sup>1</sup> 	40A	IGPM (Leak Current Autocut Device, Fuse : F21, F24, F27, F33)
F27	BURGLAR ALARM HORN		10A	ICM Relay Box (Burglar Alarm Horn Relay)
F29	ABS 1	<sup>1</sup> 	40A	ESP Control Module
F30	ABS 2	<sup>2</sup> 	30A	ESP Control Module
F31	E-CVVT 3	<sup>3</sup> E-CVVT	40A	RLY.5
F33	POWER OUT-LET 1	<sup>1</sup> POWER OUTLET	40A	RLY.14
F34	E-CVVT1	<sup>1</sup> E-CVVT	10A	ECM
F35	E-CVVT 2	<sup>2</sup> E-CVVT	20A	ECM

## Engine compartment fuse panel (Battery terminal cover)



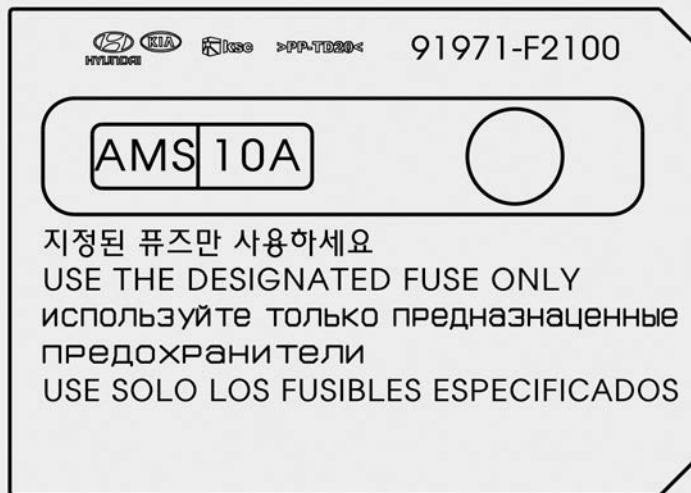
Inside the fuse/relay box cover, you can find the fuse/relay label describing fuse/relay names and ratings.

### **i** Information

Not all fuse panel descriptions in this manual may be applicable to your vehicle; the information is accurate at the time of printing. When you inspect the fuse panel in your vehicle, refer to the fuse panel label.

### **NOTICE**

After checking the fuse panel in the engine compartment, securely install the cover. If it is not securely latched, electrical failure may occur from water contact.



OPD076065



### LIGHT BULBS

Consult a HYUNDAI authorised repairer to replace most vehicle light bulbs. It is difficult to replace vehicle light bulbs because other parts of the vehicle must be removed before you can get to the bulb. This is especially true for removing the headlamp assembly to get to the bulb(s).

Removing/installing the headlamp assembly can result in damage to the vehicle.

#### WARNING

**Prior to working on a light, firmly apply the parking brake, ensure that the ignition switch is in the LOCK/OFF position and turn off the lights to avoid sudden movement of the vehicle and burning your fingers or receiving an electric shock.**

#### **NOTICE**

**Be sure to replace the burned-out bulb with one of the same wattage rating. Otherwise, it may cause damage to the fuse or electrical wiring system.**

#### Information

After heavy driving rain or washing, headlamp and tail lamp lenses could appear frosty. This condition is caused by the temperature difference between the lamp inside and outside. This is similar to the condensation on your windows inside your vehicle when raining and doesn't indicate a problem with your vehicle. If the water leaks into the lamp bulb circuitry, we recommend that the system be checked by a HYUNDAI authorised repairer.

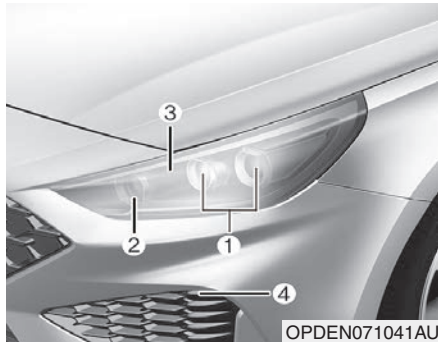
#### Information

The headlamp aiming should be adjusted after an accident or after the headlamp assembly is reinstalled at a HYUNDAI authorised repairer.

#### Information - Traffic Change

The low beam light distribution is asymmetric. If you go abroad to a country with opposite traffic direction, this asymmetric part will dazzle oncoming car driver. To prevent dazzle, ECE regulation demand several technical solutions (for example, automatic change system, adhesive sheet, down aiming). These headlamps are designed not to dazzle opposite drivers. So, you need not change your headlamps in a country with opposite traffic direction.

## Headlamp, static bending lamp, position lamp, turn signal lamp and daytime running light bulb replacement



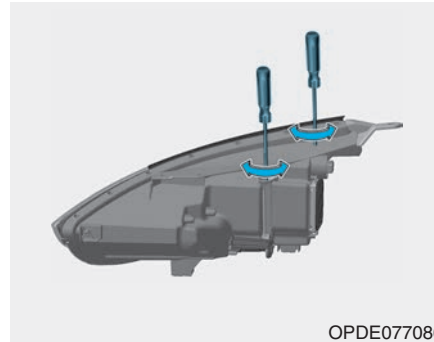
- (1) Headlamp (Low)
- (2) Headlamp (High)
- (3) Static bending light
- (4) Position lamp & Turn signal lamp & Daytime running light

### Headlamp, static bending light, position lamp, turn signal lamp and daytime running light

If the light bulb does not operate, we recommend that you have the vehicle checked by a HYUNDAI authorised repairer.

## Headlamp aiming

### Headlamp aiming



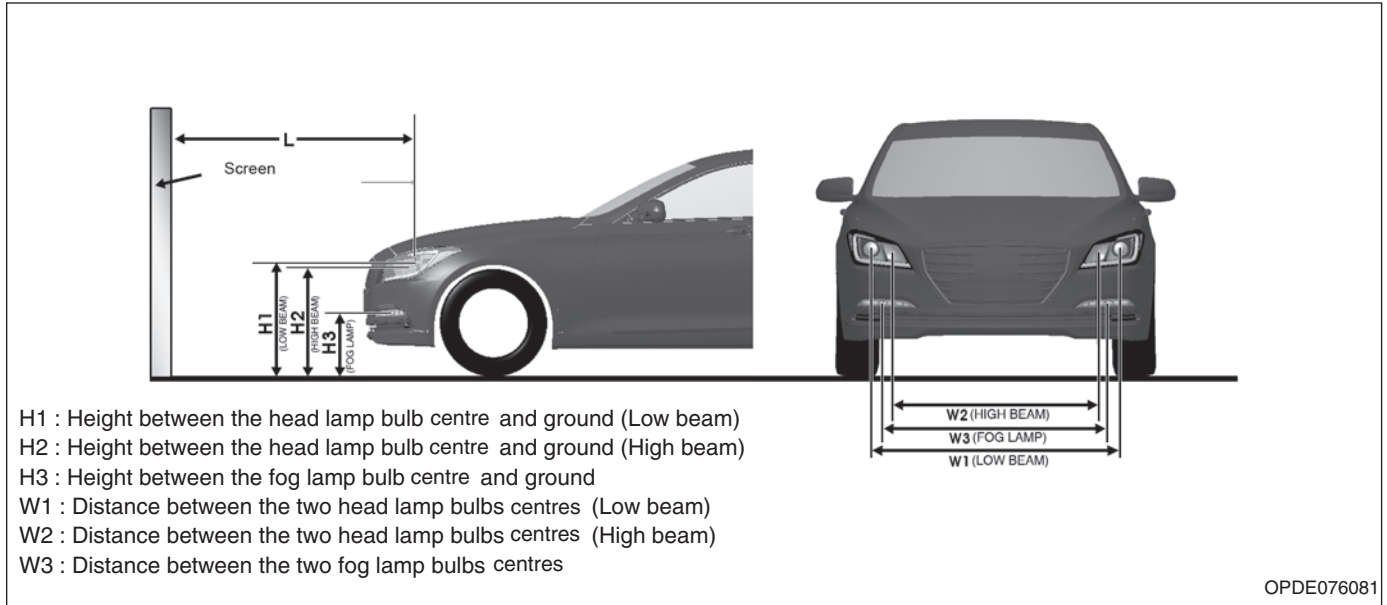
1. Inflate the tyres to the specified pressure and remove any loads from the vehicle except the driver, spare tyre, and tools.
2. The vehicle should be placed on a flat floor.
3. Draw vertical lines (Vertical lines passing through respective head lamp centres) and a horizontal line (Horizontal line passing through centre of head lamps) on the screen.

4. With the headlamp and battery in normal condition, aim the headlamps so the brightest portion falls on the horizontal and vertical lines.

5. To aim the low beam left or right, turn the driver clockwise or counterclockwise. To aim the low beam up or down, turn the driver clockwise or counterclockwise.

To aim the high beam up or down, turn the driver clockwise or counterclockwise.

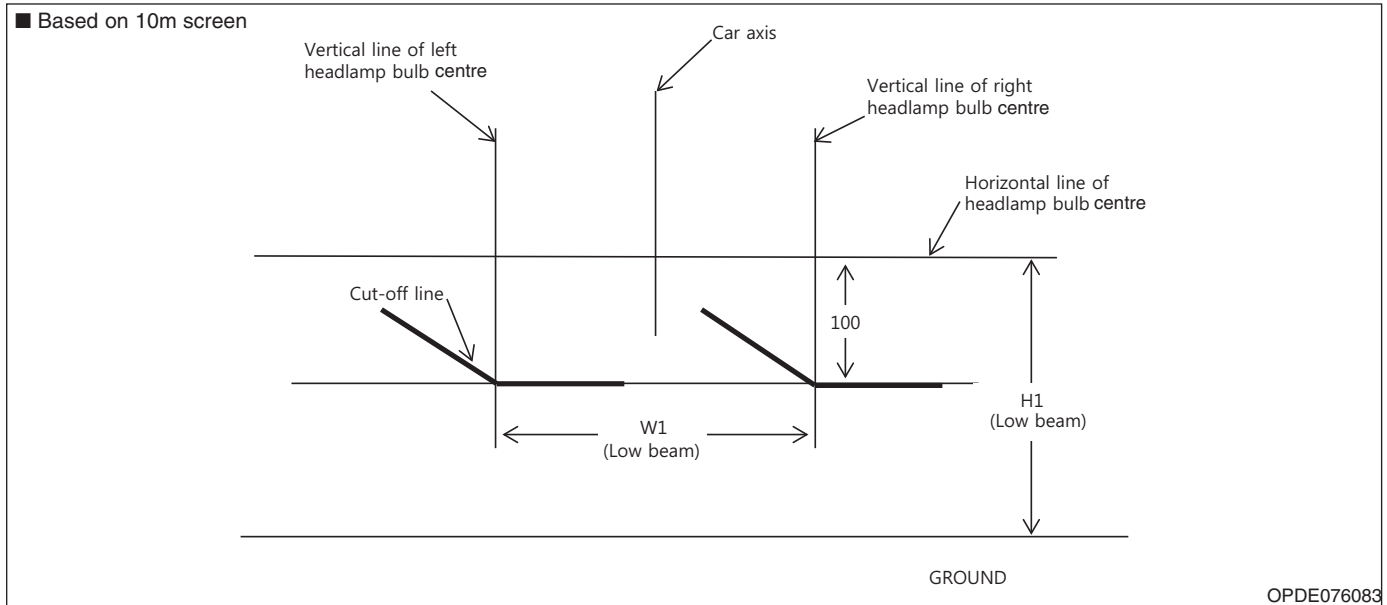
### Aiming point



Unit: mm (in)

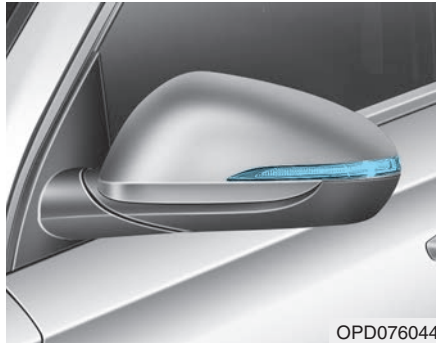
Vehicle condition	Lamp type	H1	H2	H3	W1	W2	W3
Without driver	LED	677 (26.65)	631 (24.84)	344 (13.54)	1,385 (54.52)	1,114 (43.85)	1,484 (58.42)
With driver	LED	672 (26.45)	626 (24.64)	339 (13.34)	1,385 (54.52)	1,114 (43.85)	

## Headlamp low beam



1. Turn the low beam on without driver aboard.
2. The cut-off line should be projected in the cut-off line shown in the picture.
3. When aiming the low beam, vertical aiming should be adjusted after adjusting the horizontal aiming.
4. If headlamp levelling device is equipped, adjust the head lamp levelling device switch with 0 positions.

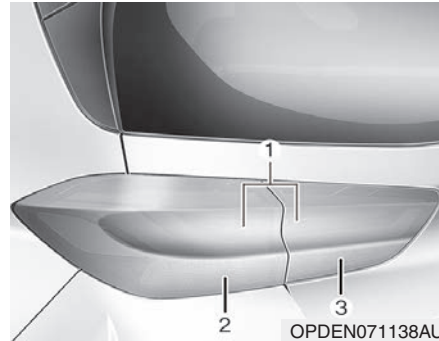
## Side repeater lamp replacement



If the light bulb does not operate, we recommend that you have the vehicle checked by a HYUNDAI authorised repairer.

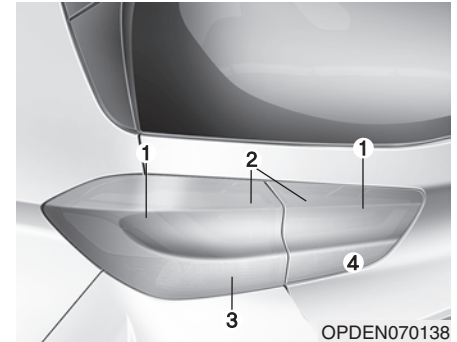
## Rear combination lamp bulb replacement

### Type A



- (1) Stop/Tail lamp
- (2) Turn signal lamp
- (3) Backup lamp

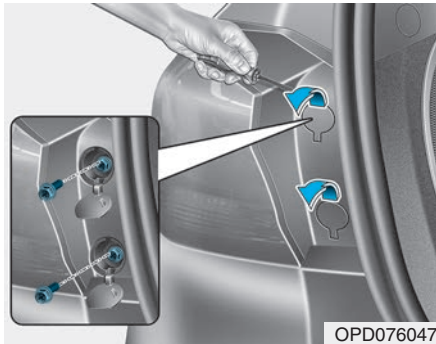
### Type B (Fastback)



- (1) Stop/Tail lamp
- (2) Stop lamp
- (3) Turn signal lamp
- (4) Backup lamp

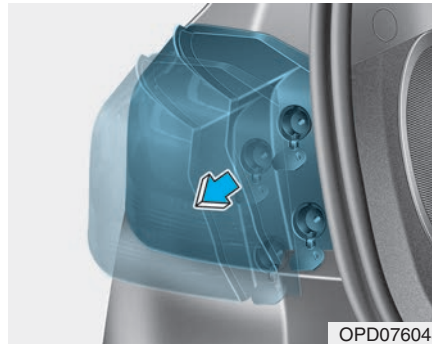
### Stop/Tail lamp

If the LED lamp does not operate, we recommend that you have the vehicle checked by a HYUNDAI authorised repairer.

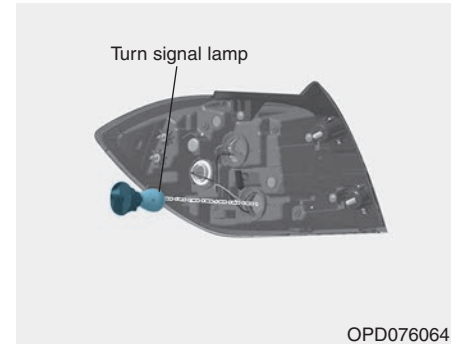


### Turn signal lamp

1. Turn off the engine.
2. Open the tailgate.
3. Open the lamp assembly retaining screw covers.
4. Loosen the lamp assembly retaining screws with a cross-tip screwdriver.



5. Remove the rear combination lamp assembly from the body of the vehicle.



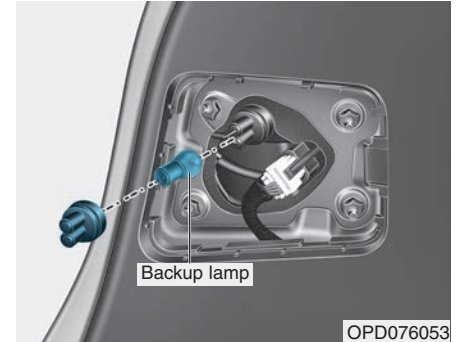
6. Remove the socket from the assembly by turning the socket counterclockwise until the tabs on the socket align with the slots on the assembly.
7. Remove the bulb from the socket by pressing it in and rotating it counterclockwise until the tabs on the bulb align with the slots in the socket. Pull the bulb out of the socket.
8. Insert a new bulb by inserting it into the socket and rotating it until it locks into place.

9. 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.
10. Reinstall the lamp assembly to the body of the vehicle



### Backup lamp

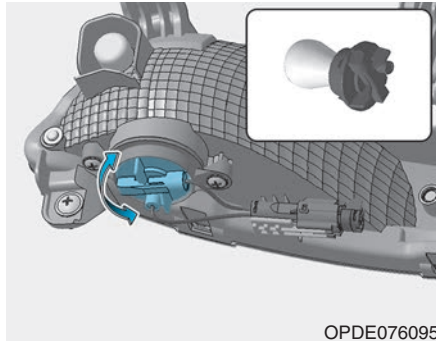
1. Turn off the engine.
2. Open the tailgate.
3. Remove the service cover using a flat-blade screwdriver.



4. Remove the bulb by pulling it straight out.
5. Insert a new bulb by inserting it into the socket and rotating it until it locks into place.
6. 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 service cover.

## Rear fog lamp replacement

### Type A



1. Loosen the pin-type retainers and screws of the rear wheel guard and then detach it from the rear bumper.
2. Reach your hand into the back of the rear bumper.
3. Remove the socket from the housing by turning the socket counterclockwise until the tabs on the socket align with the slots of the housing.

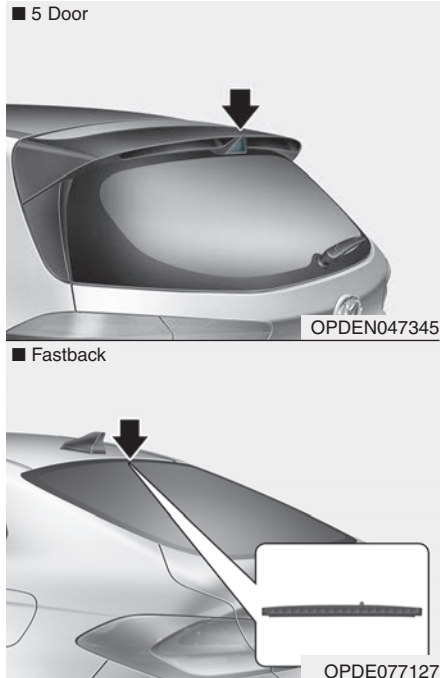
4. Remove the bulb from the socket by pressing it in and rotating it counterclockwise until the tabs on the bulb align with the slots in the socket. Pull the bulb out of the socket.
5. Insert a new bulb by inserting it into the socket and rotating it until it locks into place.
6. Install the socket into the housing by aligning the tabs on the socket with the slots in the housing. Push the socket into the housing and turn the socket clockwise.

### Type B

If the LED lamp does not operate, we recommend that you have the vehicle checked by a HYUNDAI authorised repairer.

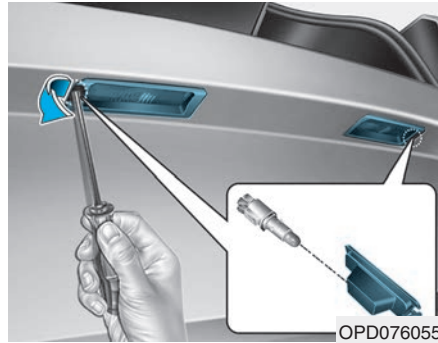


## High mounted stop lamp replacement



If the high mounted stop lamp does not operate, we recommend that you contact a HYUNDAI authorised repairer.

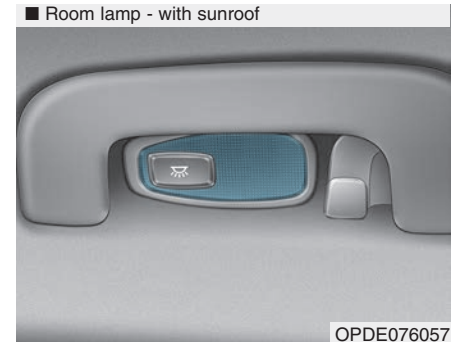
## License plate light bulb replacement



1. Using a flat-blade screwdriver, gently pry the lens cover from the lamp housing.
2. Remove the bulb by pulling it straight out.
3. Install a new bulb.
4. Reinstall in the reverse order.

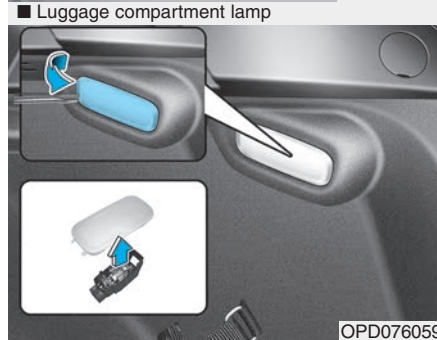
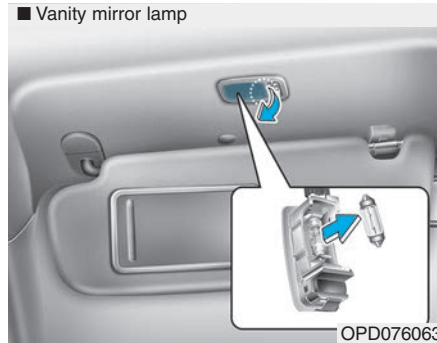
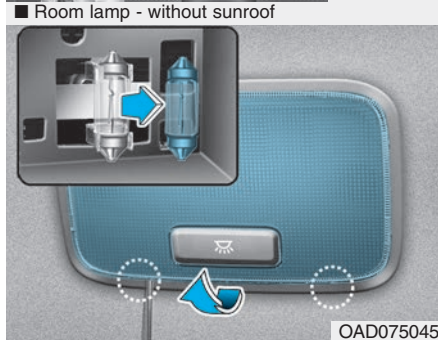
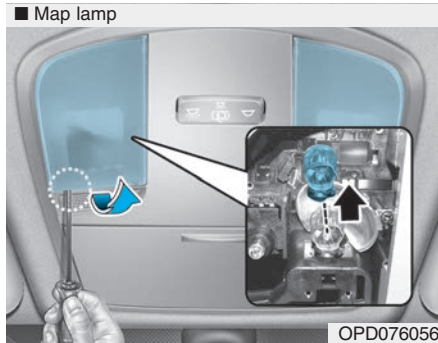
## Interior light bulb replacement

### Room lamp



If the LED lamp does not operate, we recommend that you have the vehicle checked by a HYUNDAI authorised repairer.

## Map lamp, room lamp, vanity mirror lamp and luggage compartment lamp



1. 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 into the socket.
4. Align the lens tabs with the interior light housing notches and snap the lens into place.

### NOTICE

**Be careful not to damage the cover, tab, and plastic housing.**

# 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.

### *Finish maintenance*

#### Washing

To help protect your vehicle's finish from rust and deterioration, wash it thoroughly and frequently at least once a month with lukewarm or cold water.

If you use your vehicle for off-road driving, you should wash it after each off-road trip. Pay special attention to the removal of any accumulation of salt, dirt, mud, and other foreign materials. Make sure the drain holes in the lower edges of the doors and rocker panels are kept clear and clean.

Insects, tar, tree sap, bird droppings, industrial pollution and similar deposits can damage your vehicle's finish if not removed immediately.

Even prompt washing with plain water may not completely remove all these deposits.

A mild soap, safe for use on painted surfaces, may be used.

After washing, rinse the vehicle thoroughly with lukewarm or cold water. Do not allow soap to dry on the finish.

#### **NOTICE**

- **Do not use strong soap, chemical detergents or hot water, and do not wash the vehicle in direct sunlight or when the body of the vehicle is warm.**
- **Be careful when washing the side windows of your vehicle. Especially, with high-pressure water, water may leak through the windows and wet the interior.**
- **To prevent damage to the plastic parts and lamps, do not clean with chemical solvents or strong detergents.**

#### **WARNING**

#### **Wet brakes**

**After washing the vehicle, test the brakes whilst driving slowly to see if they have been affected by water. If braking performance is impaired, dry the brakes by applying them lightly whilst maintaining a slow forward speed.**

#### **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.



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**NOTICE**

- **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 is a barrier between your paint and contaminate. Keeping a good coat of wax on your vehicle will help protect it.

Wax the vehicle when water will no longer bead on the paint.

Always wash and dry the vehicle before waxing. Use a good quality liquid or paste wax, and follow the manufacturer's instructions. Wax all metal trim to protect it and to maintain its luster.

Removing oil, tar, and similar materials with a spot remover will usually strip the wax from the finish. Be sure to re-wax these areas even if the rest of the vehicle does not yet need waxing.

**NOTICE**

- **Wiping dust or dirt off the body with a dry cloth will scratch the finish.**
- **Do not use steel wool, abrasive cleaners, or strong detergents containing highly alkaline or caustic agents on chrome-plated or anodized aluminium parts. This may result in damage to the protective coating and cause discolouration or paint deterioration.**

***Finish damage repair***

Deep scratches or stone chips in the painted surface must be repaired promptly. Exposed metal will quickly rust and may develop into a major repair expense.

**NOTICE**

**If your vehicle is damaged and requires any metal repair or replacement, be sure the body shop applies anti-corrosion materials to the parts repaired or replaced.**

### ***Bright-metal maintenance***

- To remove road tar and insects, use a tar remover, not a scraper or other sharp object.
- To protect the surfaces of bright-metal parts from corrosion, apply a coating of wax or chrome preservative and rub to a high luster.
- During winter weather or in coastal areas, cover the bright metal parts with a heavier coating of wax or preservative. If necessary, coat the parts with non-corrosive petroleum jelly or other protective compound.

### ***Underbody maintenance***

Corrosive materials used for ice and snow removal and dust control may collect on the underbody. If these materials are not removed, accelerated rusting can occur on underbody parts such as the fuel lines, frame, floor pan and exhaust system, even though they have been treated with rust protection.

Thoroughly flush the vehicle underbody and wheel openings with lukewarm or cold water once a month, after off-road driving and at the end of each winter. Pay special attention to these areas because it is difficult to see all the mud and dirt. It will do more harm than good to wet down the road grime without removing it. The lower edges of doors, rocker panels, and frame members have drain holes that should not be allowed to clog with dirt; trapped water in these areas can cause rusting.

### **WARNING**

**After washing the vehicle, test the brakes whilst driving slowly to see if they have been affected by water. If braking performance is impaired, dry the brakes by applying them lightly whilst maintaining a slow forward speed.**

### ***Aluminium wheel maintenance***

The aluminium wheels are coated with a clear protective finish.

### **NOTICE**

- **Do not use any abrasive cleaner, polishing compound, solvent, or wire brushes on aluminium wheels.**
- **Clean the wheel when it has cooled.**
- **Use only a mild soap or neutral detergent, and rinse thoroughly with water. Also, be sure to clean the wheels after driving on salted roads.**
- **Do not wash the wheels with high-speed car wash brushes.**
- **Do not use any cleanser containing acid or alkaline detergents.**

## **Corrosion protection**

### **Protecting your vehicle from corrosion**

By using the most advanced design and construction practices to combat corrosion, we produce vehicles of the highest quality. However, this is only part of the job. To achieve the long-term corrosion resistance your vehicle can deliver, the owner's cooperation and assistance is also required.

### **Common causes of corrosion**

The most common causes of corrosion on your vehicle are:

- Road salt, dirt and moisture that is allowed to accumulate underneath the vehicle.
- Removal of paint or protective coatings; by stones, gravel, abrasion or minor scrapes and dents which leave unprotected metal exposed to corrosion.

### **High-corrosion areas**

If you live in an area where your vehicle is regularly exposed to corrosive materials, corrosion protection is particularly important. Some of the common causes of accelerated corrosion are road salts, dust control chemicals, ocean air and industrial pollution.

### **Moisture breeds corrosion**

Moisture creates the conditions in which corrosion is most likely to occur. For example, corrosion is accelerated by high humidity, particularly when temperatures are just above freezing. In such conditions, the corrosive material is kept in contact with the vehicle surfaces by moisture that is slow to evaporate.

Mud is particularly corrosive because it is slow to dry and holds moisture in contact with the vehicle. Although the mud appears to be dry, it can still retain moisture and promote corrosion.

High temperatures can also accelerate corrosion of parts that are not properly ventilated so the moisture can be dispersed.

For all these reasons, it is particularly important to keep your vehicle clean and free of mud or accumulations of other materials. This applies not only to the visible surfaces but particularly to the underside of the vehicle.

### **To help prevent corrosion**

You can help prevent corrosion from getting started by observing the following:

#### *Keep your vehicle clean*

The best way to prevent corrosion is to keep your vehicle clean and free of corrosive materials. Attention to the underside of the vehicle is particularly important.

- If you live in a high-corrosion area — where road salts are used, near the ocean, areas with industrial pollution, acid rain, etc.—, you should take extra care to prevent corrosion. In winter, hose off the underside of your car at least once a month and be sure to clean the underside thoroughly when winter is over.

- When cleaning underneath the vehicle, give particular attention to the components under the fenders and other areas that are hidden from view. Do a thorough job; just dampening the accumulated mud rather than washing it away will accelerate corrosion rather than prevent it. Water under high pressure and steam are particularly effective in removing accumulated mud and corrosive materials.
- When cleaning lower door panels, rocker panels and frame members, be sure that drain holes are kept open so that moisture can escape and not be trapped inside to accelerate corrosion.

### *Keep your garage dry*

Don't park your vehicle in a damp, poorly ventilated garage. This creates a favorable environment for corrosion. This is particularly true if you wash your vehicle in the garage or drive it into the garage when it is still wet or covered with snow, ice or mud. Even a heated garage can contribute to corrosion unless it is well ventilated so moisture is dispersed.

### *Keep paint and trim in good condition*

Scratches or chips in the finish should be covered with "touch-up" paint as soon as possible to reduce the possibility of corrosion. If bare metal is showing through, the attention of a qualified body and paint shop is recommended.

**Bird droppings :** Bird droppings are highly corrosive and may damage painted surfaces in just a few hours. Always remove bird droppings as soon as possible.

### *Don't neglect the interior*

Moisture can collect under the floor mats and vehicle petting to cause corrosion. Check under the mats periodically to be sure the carpeting is dry. Use particular care if you carry fertilizers, cleaning materials or chemicals in the vehicle.

These should be carried only in proper containers and any spills or leaks should be cleaned up, flushed with clean water and thoroughly dried.

## Interior care

### *Interior general precautions*

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. If they do contact the interior parts, wipe them off immediately.

See the instructions that follow for the proper way to clean vehicle interior surfaces.

### **NOTICE**

**Never allow water or other liquids to come in contact with electrical/electronic components inside the vehicle as this may damage them.**

### **NOTICE**

**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 colour of the leather may fade or the surface may get stripped off.**



## ***Cleaning the upholstery and interior trim***

### **Vehicle interior surfaces (if equipped)**

Remove dust and loose dirt from interior surfaces with a whisk broom or a vacuum cleaner.

If necessary, clean interior surfaces with a mixture of warm water and mild non-detergent cleaner (test all cleaners on a concealed area before use).

### **Fabric (if equipped)**

Remove dust and loose dirt from fabric with a whisk broom or vacuum cleaner. Clean with a mild soap solution recommended for upholstery or carpets.

Remove fresh spots immediately with a fabric spot cleaner. If fresh spots do not receive immediate attention, the fabric can be stained and its colour can be affected. Also, its fire-resistant properties can be reduced if the material is not properly maintained.

### **NOTICE**

**Using anything but recommended cleaners and procedures may affect the fabric's appearance and fire-resistant properties.**

### **Leather (if equipped)**

- Features of seat leather
  - Leather is made from the outer skin of an animal, which goes through a special process to be available for use. Since it is a natural product, each part differs in thickness or density.  
Wrinkles may appear as a natural result of stretching and shrinking depending on the temperature and humidity.
  - The seat is made of stretchable fabric to improve comfort.
  - The parts contacting the body are curved and the side supporting area is high which provides driving comfort and stability.
  - Wrinkles may appear naturally from usage. It is not a fault of the products.

### **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 protector may prevent abrasion of the cover and helps maintain the colour. Be sure to read the instructions and consult a specialist when using leather coating or protective agent.
  - Light coloured (beige, cream beige) leather is easily contaminated and the stain is noticeable. Clean the seats frequently.
  - Avoid wiping with wet cloth. It may cause the surface to crack.
- Cleaning the leather seats
  - Remove all contaminations instantly. Refer to instructions below for removal of each contaminant.
  - Cosmetic products (sunscreen, foundation, etc.)  
Apply cleansing cream on a cloth and wipe the contaminated spot. Wipe off the cream with a wet cloth and remove water with a dry cloth.
  - Beverages (coffee, soft drink, etc.)  
Apply a small amount of neutral detergent and wipe until contaminations do not smear.
  - Oil  
Remove oil instantly with absorbable cloth and wipe with stain remover used only for natural leather.
  - Chewing gum  
Harden the gum with ice and remove gradually.

### ***Cleaning the lap/shoulder 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 it.

### ***Cleaning the interior window glass***

If the interior glass surfaces of the vehicle become fogged (that is, covered with an oily, greasy or waxy film), they should be cleaned with glass cleaner. Follow the directions on the glass cleaner container.

#### **NOTICE**

**Do not scrape or scratch the inside of the rear window. This may result in damage to the rear window defroster grid.**

## 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 Warranty 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 ensure the proper function of the emission control systems, it is recommended that you have your car inspected and maintained by a HYUNDAI authorised repairer in accordance with the maintenance schedule.

### CAUTION

**For the Inspection and Maintenance Test (with Electronic Stability Control (ESC) system)**

- **To prevent the vehicle from misfiring during dynamometer testing, turn the Electronic Stability Control (ESC) system off by pressing the ESC switch.**
- **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

The Evaporative Emission Control System is designed to prevent fuel vapours from escaping into the atmosphere.

#### **Canister**

Fuel vapours generated inside the fuel tank are absorbed and stored in the onboard canister. When the engine is running, the fuel vapours 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 whilst maintaining good vehicle performance.

#### **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 unauthorised electronic devices, it may cause the vehicle to operate abnormally, wire damage, battery discharge and fire. For your safety, do not use unauthorised electronic devices.

#### **Engine exhaust gas precautions (carbon monoxide)**

- Carbon monoxide can be present with other exhaust fumes. Therefore, if you smell exhaust fumes of any kind inside your vehicle, have it inspected and repaired immediately. If you ever suspect exhaust fumes are coming into your vehicle, drive it only with all the windows fully open. Have your vehicle checked and repaired immediately.

#### **WARNING**

**Engine exhaust gases contain carbon monoxide (CO). Though colourless and odourless, it is dangerous and could be lethal if inhaled. Follow the instructions following to avoid CO poisoning.**

- 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)***

#### **⚠ WARNING**

**The exhaust system and catalytic system are very hot whilst the engine is running or immediately after the engine is turned off. 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.

Therefore, the following precautions must be observed:

- Use only UNLEADED FUEL for petrol 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 engine 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).

- Do not modify or tamper with any part of the engine or emission control system. All inspections and adjustments must be made by a HYUNDAI authorised repairer.
- Avoid driving with a very low fuel level. If you run out of petrol, it could cause the engine to misfire and result in excessive loading of the catalytic converter.

Failure to observe these precautions could result in damage to the catalytic converter and to your vehicle.


Additionally, such actions could void your warranties.

### ***Gasoline (Petrol) Particulate Filter (GPF) (if equipped)***

The Gasoline (Petrol) Particulate Filter (GPF) system removes the soot in the exhaust gas.

The GPF system automatically burns (or oxidises) the accumulated soot in accordance with driving situations, unlike a disposable air filter.

In other words, the accumulated soot is automatically purged out by the engine control system and by the high exhaust-gas temperature at normal/ high driving speeds.

However, when the vehicle is continually driven at repeated short distances or driven at low speed for a long time, the accumulated soot may not be automatically removed because of low exhaust gas temperature. In this case, the accumulated soot is out of the detection range, the soot oxidization process does not occur, and the Gasoline (Petrol) Particulate Filter (GPF) Lamp (  ) Illuminates.

The Gasoline (Petrol) Particulate Filter (GPF) Lamp stops illuminating, when the driving speed exceeds 50 mph (80 km/h) with engine rpm 1,500 ~ 4,000 and the gear in the 3rd position or above for approximately 30 minutes.

When the GPF Lamp continuously blinks or the warning message “Check exhaust system” illuminates in the above cases, we recommend that you have the GPF system checked by a HYUNDAI authorised repairer.

When the vehicle is continuously driven with the GPF Lamp flashing for an extended period of time, it may damage the GPF system and lower the fuel economy.



## CAUTION

### **Gasoline (Petrol) Fuel (if equipped with GPF)**

**We recommend you to use only the regulated petrol fuels, when your vehicle is equipped with the GPF system.**

**When you use other petrol fuels which contain unspecified additives, they may damage the GPF system and cause exhaust emission problems.**

### ***Lean NOx Trap (if equipped)***

The Lean NOx Trap (LNT) system removes the nitrogen oxide from the exhaust gas. A smell can occur in the exhaust gas depending on the quality of the fuel, and it can degrade NOx reduction performance. Please use the regulated automotive diesel fuel.



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## DIMENSIONS

mm (in)

Items		5 Door	Fastback
Overall length		4340 (170.87)	4455 (175.39)
Overall width	without outside mirrors	1795 (70.66)	1795 (70.66)
	with outside mirrors	1444 (56.85)* <sup>1</sup> / 1445 (56.89)* <sup>2</sup>	2039 (80.27)
Overall height		1451 (57.13)* <sup>1</sup> / 1447 (56.97)* <sup>2</sup>	1417(55.78)* <sup>1</sup> / 1419(55.86)* <sup>2</sup>
Front wheel tread	225/40 ZR18	1573 (61.93)	1573 (61.93)
	235/35R19	1556 (61.26)	1556 (61.26)
Rear wheel tread	225/40 ZR18	1566 (61.65)	1566 (61.65)
	235/35R19	1564 (61.57)	1564 (61.57)
Wheelbase		2650 (104.33)	2650 (104.33)

\*<sup>1</sup> : 18 inch tyre

\*<sup>2</sup> : 19 inch tyre

## ENGINE

Displacement	Bore x Stroke	Firing Order	No. of Cylinders
1998 cc (121.9 cu. in)	86.0 X 86.0 mm (3.39 x 3.39 in.)	1-3-4-2	4. In-line

## BULB WATTAGE

Light Bulb		Bulb Type	Wattage	
Front	Headlamp	Low	LED	
		High	LED	
	Position lamp	LED	LED	
	Turn signal lamp	LED	LED	
	Static bending light (SBL)	LED	LED	
	Daytime running light	LED	LED	
	Side repeater lamp	LED	LED	
Rear	Stop/Tail lamp	LED	LED	
	Turn signal lamp	PY21W	21	
	Backup lamp	W16W	16	
	Rear fog lamp	Type A	PY21W	21
		Type B	LED	LED
	High mounted stop light	LED	LED	
License plate lamp	W5W (LED*)	5 (LED*)		
Interior	Map lamp	W10W	10	
	Room lamp	Type A	FESTOON	8
		Type B	LED	LED
	Vanity mirror lamp	FESTOON	5	
	Glove box lamp	FESTOON	5	
Luggage compartment lamp	FESTOON	10		

\* : Assy outside the Extreme edge the working condition.

## TYRES AND WHEELS

Item	Tyre Size	Wheel Size	Inflation pressure kPa (bar, psi)								Wheel Lug nut Torque [kgf-m (lbf-ft, N-m)]	
			Transmission	Normal Load (less than 100 mph or 160 km/h)		Maximum Load (less than 100 mph or 160 km/h)		High-speed driving (over 100 mph or 160 km/h) *1		Track driving *2		
				Front	Rear	Front	Rear	Front	Rear	Front		Rear
5 Door	225/40 ZR18	7.5JX18"	ALL	250 (2.5, 36)	230 (2.3, 33)	280 (2.8, 41)	280 (2.8, 41)	280 (2.8, 41)	280 (2.8, 41)	250 (2.5, 36)	250 (2.5, 36)	11~13 (79-94, 107~127)
	235/35 R19	8.0JX19"	MT	260 (2.6, 38)	240 (2.4, 35)	290 (2.9, 42)	290 (2.9, 42)	290 (2.9, 42)	290 (2.9, 42)	260 (2.6, 38)	260 (2.6, 38)	
			DCT	270 (2.7, 39)	240 (2.4, 35)	300 (3.0, 44)	310 (3.1, 45)	300 (3.0, 44)	310 (3.1, 45)	260 (2.6, 38)	260 (2.6, 38)	
Fastback	225/40 ZR18	7.5JX18"	ALL	250 (2.5, 36)	230 (2.3, 33)	280 (2.8, 41)	280 (2.8, 41)	280 (2.8, 41)	280 (2.8, 41)	250 (2.5, 36)	230 (2.3, 33)	
	235/35 R19	8.0JX19"	MT	260 (2.6, 38)	240 (2.4, 35)	290 (2.9, 42)	290 (2.9, 42)	290 (2.9, 42)	290 (2.9, 42)	260 (2.6, 38)	240 (2.4, 35)	
			DCT	270 (2.7, 39)	240 (2.4, 35)	300 (3.0, 44)	310 (3.1, 45)	300 (3.0, 44)	310 (3.1, 45)	260 (2.6, 38)	260 (2.6, 38)	

\*1: In order to drive at high speed (over 100mph or 160km/h) where the speed is legal, adjust tyre pressure as shown in above table.

\*2: Refers to the recommended inflation pressure for the hot tyre condition (state when the tyre temperature is increased). Limited number of passengers is 2 with no luggage. After the track driving is completed, change to the recommended tyre inflation pressure for the normal road driving condition.

## Compact spare tyre

Tyre Size	Wheel Size	Inflation pressure kPa (bar, psi)		Wheel Lug nut Torque [kgf·m (lbf·ft, N·m)]
		Front	Rear	
T125/70 R18	4.0T X 18	420 (4.2, 60)	420 (4.2, 60)	11~13 (79-94, 107~127)

If your vehicle is not equipped with a compact spare tyre, your vehicle will be equipped with a Tyre Mobility Kit.

### NOTICE

- It is permissible to add 20 kPa (3 psi) to the standard tyre pressure specification if colder temperatures are expected soon. Tyres typically lose 7 kPa (1 psi) for every 7°C (12°F) temperature drop. If extreme temperature variations are expected, recheck your tyre 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 tyre pressures in advance. If necessary, inflate them to a proper level (Air inflation per altitude: +10 kPa/1 km (+2.4 psi/1 mile)).
- Must do not exceed maximum inflation pressure shown on equipped tyre sidewall.

### CAUTION

When replacing tyres, use the same size originally supplied with the vehicle.  
Using tyres of a different size can damage the related parts or make it work irregularly.

## TYRE LOAD AND SPEED CAPACITY

Item	Tyre Size	Wheel Size	Load Capacity		Speed Capacity	
			LI *1	kg	SS *2	km/h
Full size tyre	225/40 ZR18	7.5J X 18	92	630	Y	300
	235/35 R19	8.0J X 19	91	615	Y	300

\*1 LI : LOAD INDEX

\*2 SS : SPEED SYMBOL

## AIR CONDITIONING SYSTEM

Items	Weight of Volume	Classification
Refrigerant g (oz.)	475 ~ 525 (16.76 ~ 18.52)	R-1234yf (For Europe) R-134a (Except Europe)
Compressor lubricant g (oz.)	100 ~ 120 (3.52 ~ 4.23)	PAG

Contact a HYUNDAI authorised repairer for more details.

## VEHICLE WEIGHT AND LUGGAGE VOLUME

		5 Door		FASTBACK			
		M/T	DCT	M/T	DCT		
Gross Vehicle Weight		kg(lbs.)		1940 (4277)	1970 (4343)	1950 (4299)	1980 (4365)
Luggage volume	Min.	395 (13.95) / 381 (13.45)* <sup>1</sup>		450(15.89)/436(15.39)* <sup>1</sup>			
	Max.	1301 (45.94) / 1287 (45.45)* <sup>1</sup>		1351(47.71)/1337(47.21)* <sup>1</sup>			
	/ (cu ft.)						

\*<sup>1</sup> : Vehicles with rear stiffness-bar

Min : Behind rear seat to upper edge of the seat back.

Max : Behind front seat to roof.


M/T : Manual transmission

DCT : Dual clutch transmission

## 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.

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

Lubricant		Volume	Classification
Engine oil *1 *2 (drain and refill) Recommends		5.2 l (4.58 Imp. qts.)	API SN PLUS / SP or ILSAC GF-6 or ACEA C2
Manual transmission fluid		1.8 ~ 1.9 l (1.6 ~ 1.7 Imp. qts.)	HK SYN MTF 70W (SK) SPIRAX S6 GHME 70W MTF (H.K.SHELL) GS MTF HD 70W (GS CALTEX) (API GL-4, SAE 70W)
Dual clutch transmission fluid	Gear oil	3.3 ~ 3.4 L	GS WDCTF HD G (GS CALTEX)
	Control oil	2.45 ~ 2.5 L	GS WDCTF HD H (GS CALTEX)
Coolant		8.5 l (7.48 Imp. qts.)	Mixture of antifreeze and distilled water (Ethylene-glycol with phosphate based coolant for aluminium radiator)
Brake/clutch fluid *3		0.7 ~ 0.8 l (0.6 ~ 0.7 Imp. qts.)	FMVSS116 DOT-4
Fuel		50 l (11 Imp. gal.)	Refer to "Fuel Requirements" in the Introduction chapter.

\*1 : Refer to the recommended SAE viscosity numbers on page 7.

\*2 : Engine oils labelled 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.

\*3 : For the best performance of braking and ABS/ESC functions, you should use genuine brake fluid that conform to standards.  
(Standards: SAE J1704 DOT-4 LV, ISO4925 CLASS-6 and FMVSS116 DOT-4)

## Recommended engine oil (For Europe)

Supplier	Product
Shell	Helix Ultra ECT C2/C3 0W30

## Recommended SAE viscosity number

### 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.

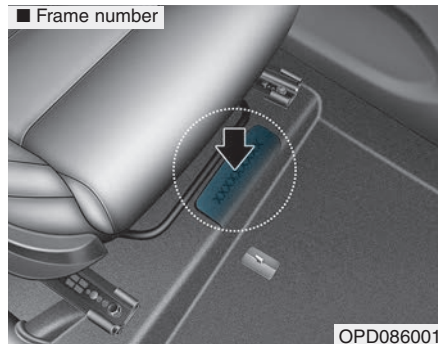
Proceed to select the recommended oil viscosity from the chart.

Temperature Range for SAE Viscosity Numbers										
Temperature	°C	-30	-20	-10	0	10	20	30	40	
	(°F)		-10	0	20	40	60	80	100	
For all countries		<b>0W-30</b>								



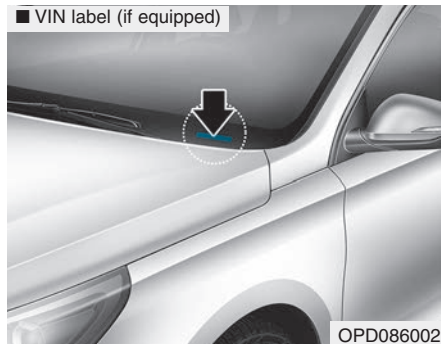
## VEHICLE IDENTIFICATION NUMBER (VIN)

■ Frame number



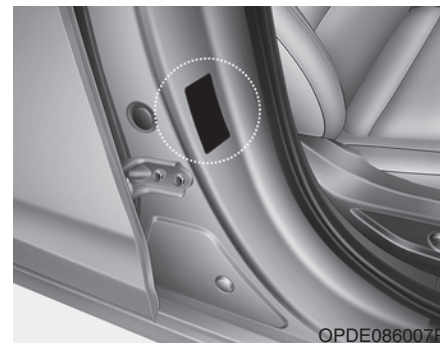
The vehicle identification number (VIN) is the number used in registering your vehicle and in all legal matters pertaining to its ownership, etc. The number is punched on the floor under the driver seat. To check the number, open the cover.

■ VIN label (if equipped)



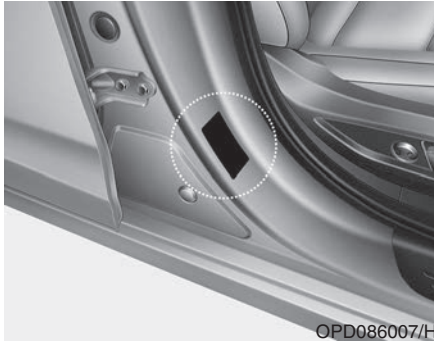
The VIN is also on a plate attached to the top of the dashboard. The number on the plate can easily be seen through the windscreen from outside.

## VEHICLE CERTIFICATION LABEL



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

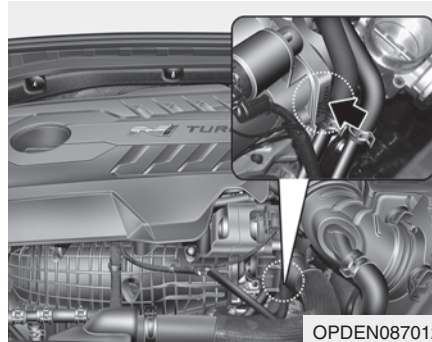
## TYRE SPECIFICATION AND PRESSURE LABEL



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

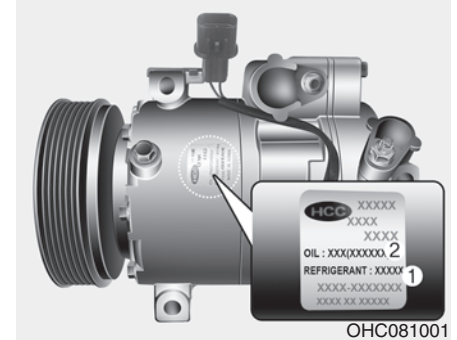
The tyre label located on the driver's side centre pillar gives the tyre pressures recommended for your vehicle.

## ENGINE NUMBER



The engine number is stamped on the engine block as shown in the drawing.

## AIR CONDITIONER COMPRESSOR LABEL



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

## REFRIGERANT LABEL



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

The label is located on the underside of the bonnet.

## DECLARATION OF CONFORMITY (IF EQUIPPED)

■ Example

CE CE 0678

CE0678

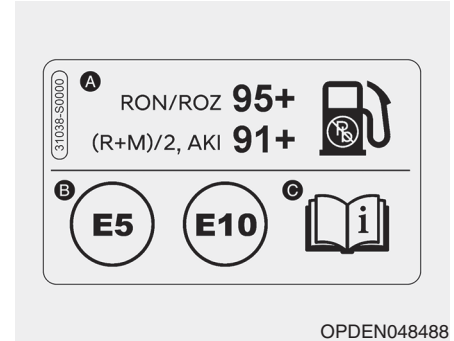
The radio frequency components of the vehicle comply with requirements and other relevant provisions of Directive 1995/5/EC.

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

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

## FUEL LABEL (IF EQUIPPED)

The fuel label is attached on the fuel filler door.



- A. Octane rating of unleaded petrol
- 1) RON/ROZ : Research Octane Number
  - 2) (R+M)/2, AKI : Anti Knock Index
- B. Identifiers for Petrol-type fuels
- ✳ This symbol means usable fuel. Do not use any other fuel.
- C. For further details, refer to the “Fuel Requirement” in the Introduction chapter.



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