

OWNER'S MANUAL

Operation
Maintenance
Specifications

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

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

Please note that some models are equipped with Right-Hand Drive (RHD). The explanations and illustrations for some operations in RHD models are opposite of those written in this manual.

CAUTION: MODIFICATIONS TO YOUR HYUNDAI

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

TWO-WAY RADIO OR CELLULAR TELEPHONE INSTALLATION

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

WARNING! (IF EQUIPPED)

The vehicle is equipped with a device of the system Pan-european eCall which calls emergency services. Any self- or unauthorized interference in the system Pan-european eCall, in vehicle systems and its components, installing of equipment which is not recommended by vehicle manufacturer and/or in authorized HYUNDAI dealer can cause incorrect operation (of the device of) the system Pan-european eCall, making erroneous calls, causing failure of the device (in cars) in case of traffic accident or other accidents, when you need emergency care.

This may be dangerous and threaten your life!

SAFETY AND VEHICLE DAMAGE WARNING

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.

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FOREWORD

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

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

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

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

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

HYUNDAI MOTOR COMPANY



CAUTION

Severe engine and transmission damage may result from the use of poor quality fuels and lubricants that do not meet HYUNDAI specifications. You must always use high quality fuels and lubricants that meet the specifications listed on Page 8-7 in the Vehicle Specifications section 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 minimize 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 section 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.



CAUTION

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



WARNING

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NOTICE

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

FUEL REQUIREMENTS

Gasoline engine

Unleaded

For Europe

For the optimal vehicle performance, we recommend you use unleaded gasoline which has an octane rating of RON (Research Octane Number)

95 / AKI (Anti Knock Index) 91 or higher. You may use unleaded gasoline with an octane rating of RON 91-94 / AKI 87-90 but it may result in slight performance reduction of the vehicle. (Do not use methanol blended fuels)

Except Europe

Your new vehicle is designed to use only unleaded fuel having an Octane Rating of RON (Research Octane Number) 91 / AKI (Anti-Knock Index) 87 or higher. (Do not use methanol blended fuels)

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



CAUTION

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.

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



WARNING

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

Leaded (if equipped)

For some countries, your vehicle is designed to use leaded gasoline. When you are going to use leaded gasoline, we recommend that you ask an authorized HYUNDAI dealer.

Octane rating of leaded gasoline is same with unleaded one.

Gasoline containing alcohol and methanol

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

Do not use gasohol containing more than 10% ethanol, and do not use gasoline or gasohol containing any methanol. Either of these fuels may cause drivability problems and damage to the fuel system, engine control system and emission control system.

Discontinue using gasohol of any kind if drivability problems occur.

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. Gasoline or gasohol containing methanol.
3. Leaded fuel or leaded gasohol.



CAUTION

Never use gasohol which contains methanol. Discontinue use of any gasohol product which impairs drivability.

Other fuels

Using fuel additives such as:

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

may result in cylinder misfire, poor acceleration, engine stalling, 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.

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 vapor 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 gasoline which has an octane rating of RON (Research Octane Number) 95 / AKI (Anti Knock Index) 91 or higher (for Europe) or Octane Rating of RON (Research Octane Number) 91 / AKI (Anti-Knock Index) 87 or higher (except Europe).

For customers who do not use good quality gasolines including fuel additives regularly, and have problems starting or the engine does not run smoothly, one bottle of additive added to the fuel tank according to the maintenance schedule is recommended (refer to chapter 7, “Normal Maintenance Schedule”). Additives are available from your authorized HYUNDAI dealer along with information on how to use them. Do not mix other additives.

Operation in foreign countries

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

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

Diesel engine

Diesel fuel

Diesel engine must be operated only on commercially available diesel fuel that complies with EN 590 or comparable standard. (EN stands for “European Norm”). Do not use marine diesel fuel, heating oils, or non-approved fuel additives, as this will increase wear and cause damage to the engine and fuel system. The use of non-approved fuels and / or fuel additives will result in a limitation of your warranty rights.

Diesel fuel of above cetane 51 is used in your vehicle. If two types of diesel fuel are available, use summer or winter fuel properly according to the following temperature conditions.

- Above -5°C (23°F) ... Summer type diesel fuel.
- Below -5°C (23°F) ... Winter type diesel fuel.

Watch the fuel level in the tank very carefully : If the engine stops through fuel failure, the circuits must be completely purged to permit restarting.



CAUTION

Do not let any gasoline or water enter the tank. This would make it necessary to drain it out and to bleed the lines to avoid jamming the injection pump and damaging the engine.



CAUTION

It is recommended to use the regulated automotive diesel fuel for diesel vehicle equipped with the DPF system.

If you use diesel fuel including high sulfur (more than 50 ppm sulfur) and unspecified additives, it can cause the DPF system to be damaged and white smoke can be emitted.

Biodiesel

Commercially supplied Diesel blends of no more than 7% biodiesel, commonly known as “B7 Diesel” may be used in your vehicle if Biodiesel meets EN 14214 or equivalent specifications. (EN stands for “European Norm”). The use of biofuels exceeding 7% made from rapeseed methyl ester (RME), fatty acid methyl ester (FAME), vegetable oil methyl ester (VME) etc. or mixing diesel exceeding 7% with biodiesel will cause increased wear or damage to the engine and fuel system. Repair or replacement of worn or damaged components due to the use of non approved fuels will not be covered by the manufactures warranty.



CAUTION

- **Never use any fuel, whether diesel, B7 biodiesel or otherwise, that fails to meet the latest petroleum industry specification.**
- **Never use any fuel additives or treatments that are not recommended or approved by the vehicle manufacturer.**

VEHICLE MODIFICATIONS

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

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

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

VEHICLE BREAK-IN PROCESS

By following a few simple precautions for the first 1,000 km (600 miles) you may add to the performance, economy and life of your vehicle.

- Do not race the engine.
- While driving, keep your engine speed (RPM, or revolutions per minute) between 2,000 RPM and 4,000 RPM.
- Do not maintain a single speed for long periods of time, either fast or slow. Varying engine speed is needed to properly break-in the engine.
- Avoid hard stops, except in emergencies, to allow the brakes to seat properly.
- Don't tow a trailer during the first 2,000 km (1,200 miles) of operation.

RETURNING USED VEHICLES (FOR EUROPE)

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

You can get detailed information from your national HYUNDAI homepage.

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EXTERIOR OVERVIEW (I)

■ Front view



The actual shape may differ from the illustration.

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- | | | | |
|-------------------------------------|------------|--|------|
| 1. Hood..... | 5-37 | 6. Outside rearview mirror | 5-25 |
| 2. Head lamp..... | 5-46, 9-73 | 7. Sunroof..... | 5-32 |
| 3. DRL (Daytime Running Light)..... | 9-71 | 8. Front windshield wiper blades | 5-58 |
| 4. Turn signal lamp | 9-71 | 9. Windows | 5-28 |
| 5. Tires and wheels..... | 9-46 | | |

■ Front view (N Line)



The actual shape may differ from the illustration.

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- | | | | |
|-------------------------------------|------------|--|------|
| 1. Hood..... | 5-37 | 6. Outside rearview mirror | 5-25 |
| 2. Head lamp..... | 5-46, 9-73 | 7. Sunroof..... | 5-32 |
| 3. DRL (Daytime Running Light)..... | 9-71 | 8. Front windshield wiper blades | 5-58 |
| 4. Turn signal lamp | 9-71 | 9. Windows | 5-28 |
| 5. Tires and wheels..... | 9-46 | | |

EXTERIOR OVERVIEW (II)

■ Rear view



The actual shape may differ from the illustration.

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- | | | | |
|--|------|---------------------------------|-------|
| 1. Door..... | 5-14 | 6. High mounted stop lamp..... | 9-83 |
| 2. Fuel filler door..... | 5-41 | 7. Rear window wiper blade..... | 9-42 |
| 3. Rear combination lamp..... | 9-81 | 8. Rear view camera..... | 7-112 |
| 4. Turn signal lamp, Rear fog lamp,
Back-up lamp..... | 9-81 | 9. Antenna..... | 5-97 |
| 5. Tailgate..... | 5-39 | | |

■ Rear view (N Line)



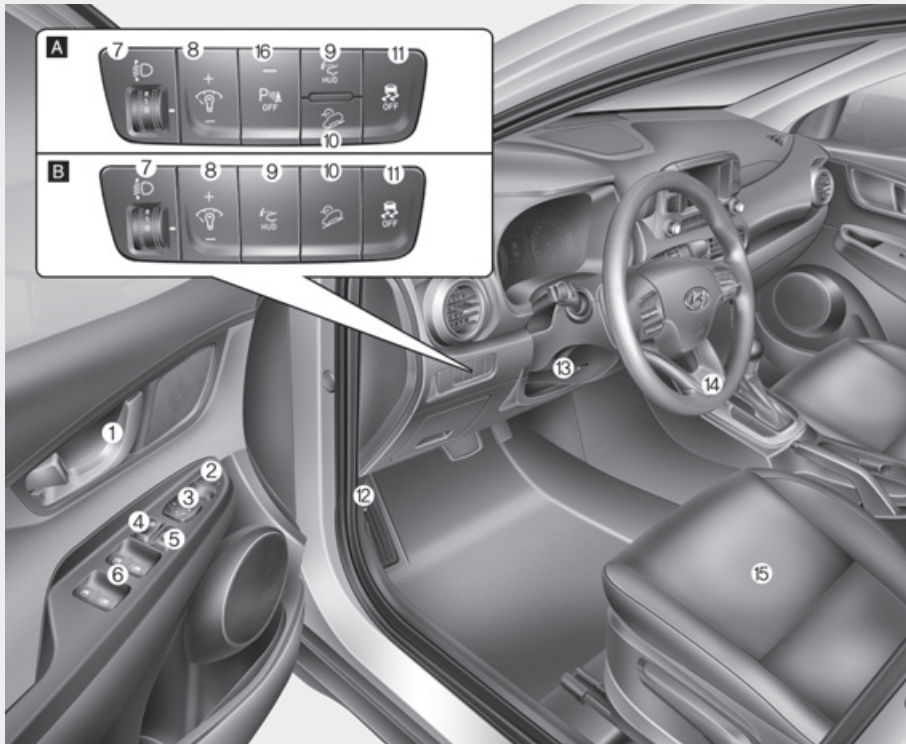
The actual shape may differ from the illustration.

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- | | | | |
|--|------|----------------------------------|-------|
| 1. Door..... | 5-14 | 6. High mounted stop lamp..... | 9-83 |
| 2. Fuel filler door..... | 5-41 | 7. Rear window wiper blade | 9-42 |
| 3. Rear combination lamp..... | 9-79 | 8. Rear view camera..... | 7-112 |
| 4. Turn signal lamp, Rear fog lamp,
Back-up lamp..... | 9-79 | 9. Antenna..... | 5-97 |
| 5. Tailgate..... | 5-39 | | |

INTERIOR OVERVIEW (I)

■ Left-hand drive type



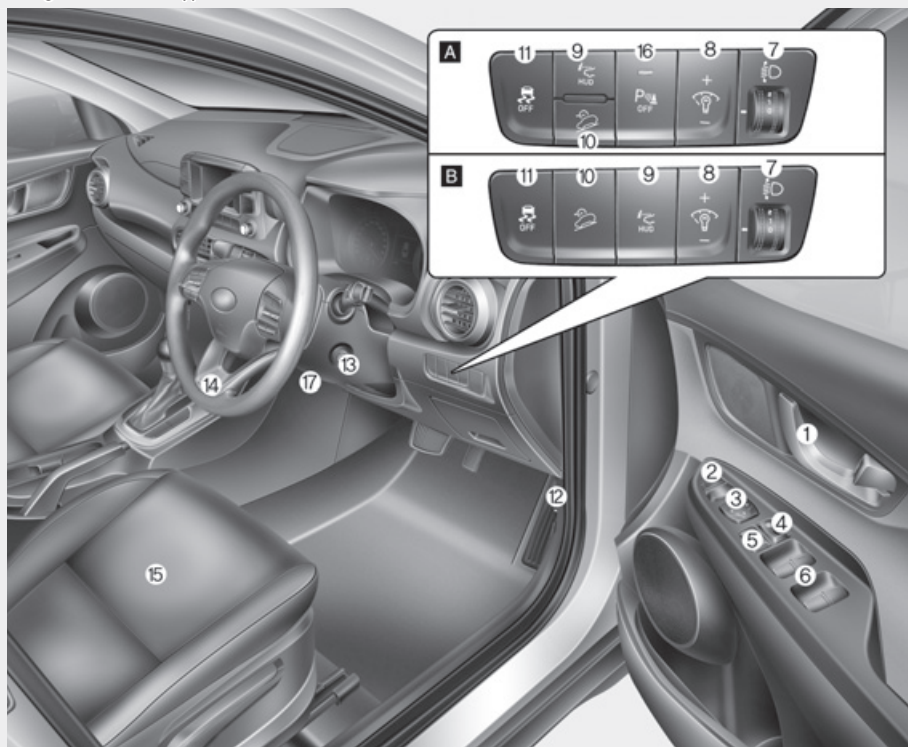
The actual shape may differ from the illustration.

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[A] : Type A, [B] : Type B

- | | | | |
|---|------|--|-------|
| 1. Inside door handle..... | 5-16 | 9. Head-up display button | 5-45 |
| 2. Outside rearview mirror folding | 5-26 | 10. DBC button | 6-51 |
| 3. Outside rearview mirror control | 5-26 | 11. ESC OFF button | 6-47 |
| 4. Central door lock switch | 5-16 | 12. Hood release lever..... | 5-37 |
| 5. Power window lock switch | 5-31 | 13. Steering wheel tilt/telescopic lever ... | 5-21 |
| 6. Power window switches | 5-28 | 14. Steering wheel..... | 5-20 |
| 7. Headlight leveling device | 5-50 | 15. Seat | 3-3 |
| 8. Instrument panel illumination control switch | 4-3 | 16. Parking safety button..... | 7-137 |

■ Right-hand drive type



The actual shape may differ from the illustration.

OOS010003R

[A] : Type A, [B] : Type B

- | | | | |
|--|------|--|-------|
| 1. Inside door handle..... | 5-16 | 9. Head-up display button | 5-45 |
| 2. Outside rearview mirror folding | 5-26 | 10. DBC button | 6-51 |
| 3. Outside rearview mirror control | 5-26 | 11. ESC OFF button | 6-47 |
| 4. Central door lock switch | 5-16 | 12. Hood release lever..... | 5-37 |
| 5. Power window lock switch | 5-31 | 13. Key ignition switch | 6-5 |
| 6. Power window switches | 5-28 | 14. Steering wheel..... | 5-20 |
| 7. Headlight leveling device | 5-50 | 15. Seat | 3-3 |
| 8. Instrument panel illumination control
switch | 4-3 | 16. Parking safety button | 7-137 |
| | | 17. Steering wheel tilt/telescopic lever | 5-21 |

INTERIOR OVERVIEW (II)

■ Left-hand drive type

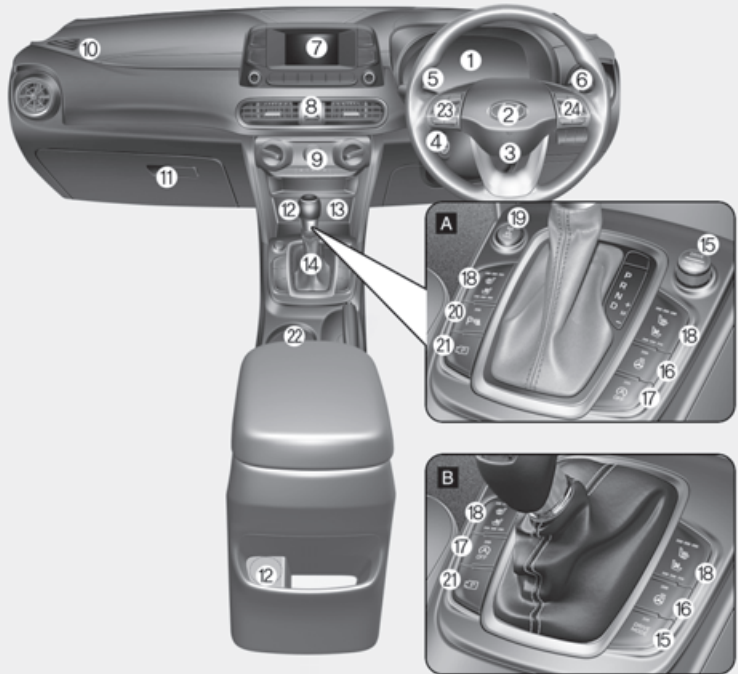


The actual shape may differ from the illustration.

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- | | | | |
|---|----------|--|-----------|
| 1. Instrument cluster | 4-2 | Intelligent variable transmission shift lever | 6-21 |
| 2. Horn | 5-22 | 15. Drive mode button | 6-68 |
| 3. Driver's front air bag | 3-49 | Traction mode button | 6-70 |
| 4. Key ignition switch/ | 6-5 | 16. Heated steering wheel | 5-22 |
| Engine Start/Stop button | 6-9 | 17. Idle stop and go (ISG) OFF button | 6-59 |
| 5. Light control/Turn signals | 5-46, 48 | 18. Seat warmer/Air ventilation seat | 3-19 |
| 6. Wiper/Washer | 5-58 | 19. 4WD lock button | 6-54 |
| 7. Infotainment system | 5-97 | 20. Parking Safety button | 7-137 |
| 8. Hazard warning flasher switch | 8-3 | 21. Parking/View button | 7-113 |
| 9. Manual climate control system | 5-63 | 22. Cup holder | 5-89 |
| Automatic climate control system | 5-72 | 23. Steering wheel audio controls/ | 5-98 |
| 10. Passenger's front air bag | 3-49 | Bluetooth® wireless technology hands-free controls | 5-99 |
| 11. Glove box | 5-86 | 24. Driving Assist button/ | 7-61 |
| 12. USB port | 5-97 | Lane Driving Assist button/ | 7-29, 102 |
| 13. Power outlet | 5-90 | Headway | 7-80 |
| 14. Manual transmission shift lever | 6-15 | | |
| Dual clutch transmission shift lever | 6-26 | | |
| Intelligent manual transmission shift lever | 6-18 | | |

■ Right-hand drive type



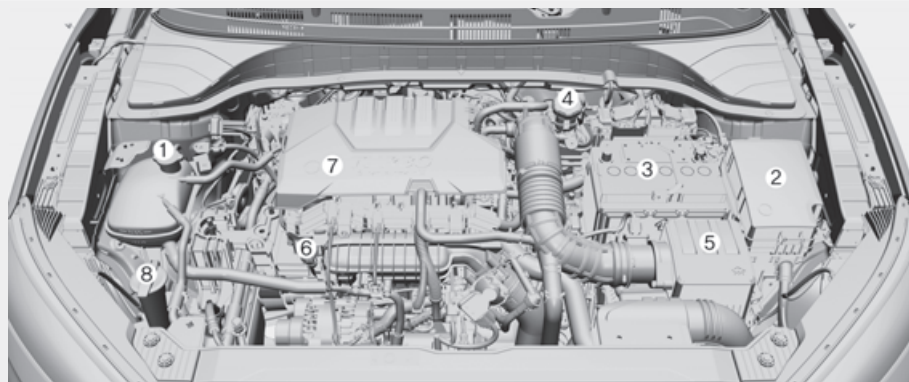
The actual shape may differ from the illustration.

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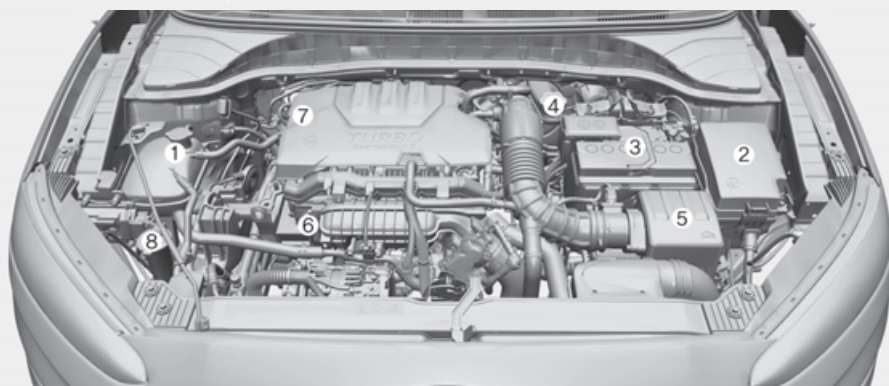
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|---|----------|--|-----------|
| 1. Instrument cluster | 4-2 | Intelligent variable transmission shift lever | 6-21 |
| 2. Horn..... | 5-22 | 15. Drive mode button | 6-68 |
| 3. Driver's front air bag..... | 3-49 | Traction mode button | 6-70 |
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| 11. Glove box | 5-86 | 24. Driving Assist button/ | 7-61 |
| 12. USB port..... | 5-97 | Lane Driving Assist button/ | 7-29, 102 |
| 13. Power outlet..... | 5-90 | Headway | 7-80 |
| 14. Manual transmission shift lever..... | 6-15 | | |
| Dual clutch transmission shift lever..... | 6-26 | | |
| Intelligent manual transmission shift lever | 6-18 | | |

ENGINE COMPARTMENT

■ Smartstream G1.0 T-GDi



■ Smartstream G1.0 T-GDi (48V) MHEV

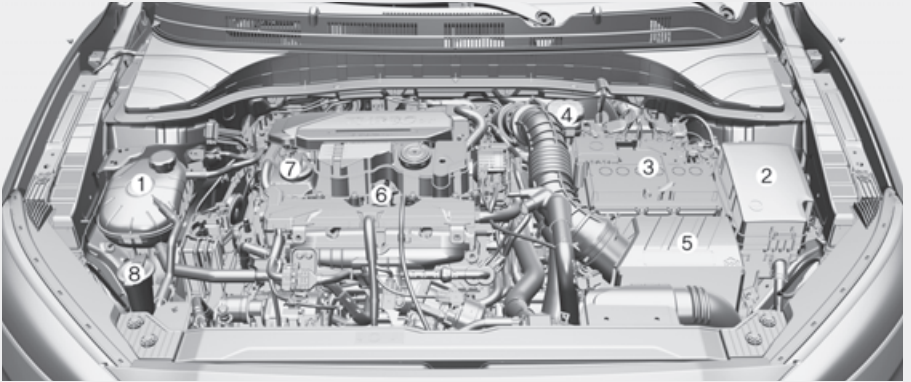


The actual engine compartment in the vehicle may differ from the illustration.

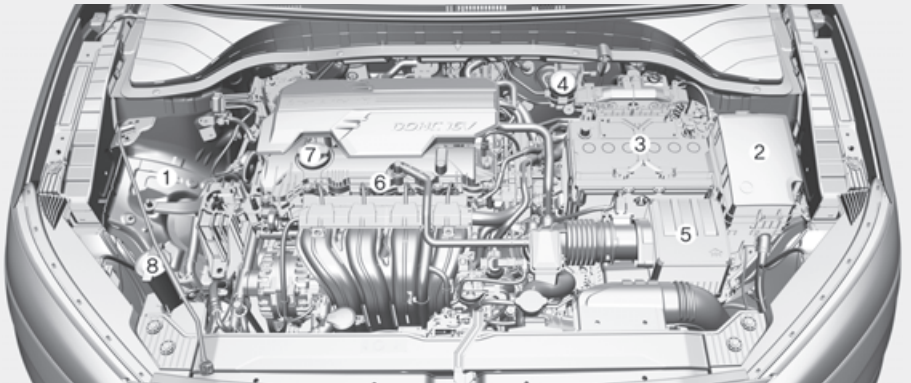
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- | | | | |
|---------------------------------------|------|---|------|
| 1. Engine coolant reservoir | 9-31 | 5. Air cleaner | 9-37 |
| Engine coolant cap..... | 9-32 | 6. Engine oil dipstick | 9-27 |
| 2. Fuse box..... | 9-55 | 7. Engine oil filler cap..... | 9-28 |
| 3. Battery | 9-43 | 8. Windshield washer fluid reservoir..... | 9-36 |
| 4. Brake/clutch fluid reservoir | 9-34 | | |

■ Smartstream G1.6 T-GDi (including N Line)



■ Smartstream G2.0 Atkinson (Except Europe)

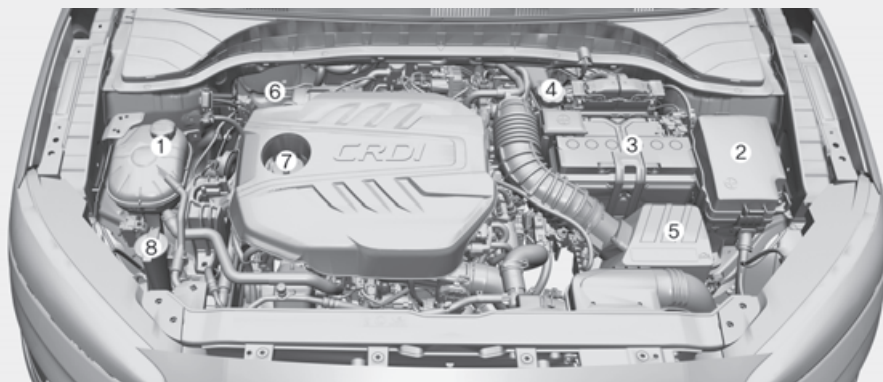


The actual engine compartment in the vehicle may differ from the illustration.

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- | | | | |
|---------------------------------------|------|--|------|
| 1. Engine coolant reservoir | 9-31 | 5. Air cleaner | 9-37 |
| Engine coolant cap..... | 9-32 | 6. Engine oil dipstick | 9-27 |
| 2. Fuse box | 9-55 | 7. Engine oil filler cap | 9-28 |
| 3. Battery | 9-43 | 8. Windshield washer fluid reservoir | 9-36 |
| 4. Brake/clutch fluid reservoir | 9-34 | | |

■ Smartstream D1.6 (48V) MHEV



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

OOS090022L

- | | | | |
|---------------------------------------|------|--|------|
| 1. Engine coolant reservoir | 9-31 | 5. Air cleaner | 9-37 |
| Engine coolant cap..... | 9-32 | 6. Engine oil dipstick | 9-27 |
| 2. Fuse box | 9-55 | 7. Engine oil filler cap..... | 9-28 |
| 3. Battery | 9-43 | 8. Windshield washer fluid reservoir | 9-36 |
| 4. Brake/clutch fluid reservoir | 9-34 | | |

DIMENSIONS

Items		mm (in)
Overall length		4,205 (165.55) N Line: 4,215 (165.94)
Overall width		1800 (70.86)
Overall height		1550 (61.02) / 1565 (61.61)* ¹ N Line: 1,560 (61.42) / 1,570 (61.81)* ¹
Front tread	205/60 R16	1575 (62.0)
	215/55 R17	1563 (61.53)
	235/45 R18	1559 (61.37) N Line: 1,559 (61.73)
Rear tread	205/60 R16	1584 (62.36)
	215/55 R17	1572 (61.88)
	235/45 R18	1568 (61.73) N Line: 1,568 (61.73)
Wheelbase		2600 (102.36)

*1: with roof rack

ENGINE

Engine	Gasoline Engine				Diesel Engine
	Smartstream G1.0 T-GDi	Smartstream G1.0T-GDi (48V) MHEV	Smartstream G1.6 T-GDi	Smartstream G2.0 Atkinson	Smartstream D1.6 (48V) MHEV
Displacement cc (cu. in)	998 (60.9)	998 (60.9)	1598 (97.5)	1999 (121.9)	1598 (97.52)
Bore x Stroke mm (in.)	71.0 x 84.0 (2.79 x 3.30)	71.0 x 84.0 (2.79 x 3.30)	75.6 X 89.0 (2.98 X 3.5)	81.0 x 97.0 (3.18 x 3.81)	77.0 x 85.8 (3.03 x 3.38)
Firing order	1-2-3	1-2-3	1-3-4-2	1-3-4-2	1-3-4-2
No. of cylinders	In-line 3 cylinder	In-line 3 cylinder	In-line 4 cylinder	In-line 4 cylinder	In-line 4 cylinder

BULB WATTAGE

Light Bulb		Bulb Type	Wattage	
Front	Headlamp	Low (Type A)	H7	55
		High (Type A)	H7	55
		Low (Type B)	LED	LED
		High (Type B)	LED	LED
		Low Beam Assist-static lamp	H7	55
	Turn signal lamp		PY21W	21
	Turn signal lamp (Outside mirror)		LED	LED
	Daytime running lamp (DRL) / position lamp		LED	LED
Fog lamp		H8	35	
Rear	Rear combination lamp	Stop/Tail (Type A)	P21/5W	5
		Tail (Type A)	W5W	LED
		Stop/Tail (Type B)	LED	21
		Turn signal	P21W	21
		Back up	P21W	21
		Fog lamp	PR21W	21
	High mounted stop lamp		LED	LED
	License plate lamp		W5W	5
Interior	Map lamp		W10W	10
	Room lamp (with sunroof)		FESTOON	8
	Room lamp (without sunroof)		FESTOON	10
	Sunvisor lamp		FESTOON	5
	Tailgate room lamp		FESTOON	10
	Glove box lamp		FESTOON	5

TIRES AND WHEELS

Items	Tire size	Wheel size	Inflation pressure kPa (psi)				Wheel bolt torque kgf·m (lbf·ft, N·m)
			Normal load		Maximum load		
			Front	Rear	Front	Rear	
Full size tire	205/60 R16	6.5J x 16	2.3 (230,33)		2.5 (250,36)		11~13 (79~94, 107~127)
	215/55 R17	7.0J x 17					
	235/45 R18	7.5J x 18					
Compact spare tire (if equipped)	T125/80 D16	4.0T x 16	4.2 (420,60)				

NOTICE

- It is permissible to add 20 kPa (3 psi) to the standard tire pressure specification if colder temperatures are expected soon. Tires typically lose 7 kPa (1 psi) for every 7°C (12°F) temperature drop. If extreme temperature variations are expected, recheck your tire pressure as necessary to keep them properly inflated.
- An air pressure generally decreases, as you drive up to a high-altitude area above sea level. Thus, if you plan to drive a high-altitude area, check the tire pressures in advance. If necessary, inflate them to a proper level (Air inflation per altitude: +10 kPa/1 km (+2.4 psi/1 mile)).
- Must do not exceed maximum inflation pressure shown on equipped tire sidewall.



CAUTION

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

LOAD AND SPEED CAPACITY TIRES (FOR EUROPE)

Items	Tire size	Wheel size	Load capacity		Speed capacity	
			LI *1	kg	SS *2	km/h
Full size tire	205/60 R16	6.5J x 16	92	630	H	210
	215/55 R17	7.0J x 17	94	670	V	240
	235/45 R18	7.5J x 18	94	670	V	240
Compact spare tire (if equipped)	T125/80 D16	4.0T x 16	97	730	M	130

*1 LI : LOAD INDEX

*2 SS : SPEED SYMBOL

AIR CONDITIONING SYSTEM

Items	Weight of volume	Classification
Refrigerant g (oz.)	R-1234yf : 450 (15.87) ± 25 (0.88) R-134a : 500 (17.63) ± 25 (0.88)	R-1234yf (For Europe) R-134a (Except Europe)
Compressor lubricant g (oz.)	120 (4.23) ± 10 (0.35)	PAG

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

VEHICLE WEIGHT AND LUGGAGE VOLUME

Items	Gasoline Engine						Diesel Engine		
	Smartstream G1.0 T-GDi		Smartstream G1.0 T-GDi (48V) MHEV	Smartstream G 1.6T-GDi		Smartstream G2.0 Atkinson	Smartstream D1.6 (48V) MHEV		
	2WD	2WD	2WD	2WD	4WD	2WD	2WD		4WD
	M/T	DCT	IMT	DCT	DCT	IVT	IMT	DCT	DCT
Gross vehicle weight kg (lbs.)	1770 (3902)	1761 (3882)	1795 (3957)	1840 (4056)	1935 (4265)	1835 (4045)	1875 (4133)	1895 (4178)	1965 (4332)
Luggage volume (VDA) ℓ (cu ft.)	MIN : 374 (13.21) MAX : 1,156 (40.82)								

M/T : Manual transmission

IMT : Intelligent manual transmission

DCT : Dual clutch transmission

IVT : Intelligent variable transmission


Min : Behind rear seat to upper edge of the seat back.

Max : Behind front seat to roof.

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 *5 (drain and refill) Recommends 	Gasoline Engine	Smartstream G1.0 T-GDi/ Smartstream G1.0 T-GDi (48V) MHEV	3.6 ℓ (3.8 US qt.)	For Europe For Middle East *2	SAE 0W20, API SN PLUS/ SP or ILSAC GF-6 *3
		Smartstream G1.6 T-GDi	4.8 ℓ (5.1 US qt.)	For Middle East *2	SAE 5W-30, ACEA A5/B5 *4
				Except Middle East	SAE 0W-20, API SN PLUS/ SP or ILSAC GF-6 *3
		Smartstream G2.0 Atkinson	4.3 ℓ (4.5 US qt.)	For Middle East *2	SAE 5W-30, ACEA A5/B5 *4
	Except Middle East			SAE 0W-20, API SN PLUS/ SP or ILSAC GF-6 *3	
Diesel	Smartstream D1.6 (48V) MHEV	4.4 ℓ (4.6 US qt.)	ACEA C5 or C2 or C3		
Manual transmission fluid	Gasoline	Smartstream G1.0 T-GDi	1.5~1.6 ℓ (1.6~1.7 US qt.)	HY SYN MTF 70W (SK) SPIRAX S6 GHME 70W MTF (H.K.SHELL) GS MTF HD 70W (GS CALTEX) API GL-4, SAE 70W, TGO-9	
Intelligent manual transmission fluid	Gasoline Engine	Smartstream G1.0 T-GDi 48V MHEV			
	Diesel Engine	Smartstream D1.6 (48V) MHEV			

*1: Refer to the recommended SAE viscosity numbers on the next page.

*2: Middle east includes Iran, Libia, Algeria, Sudan, Morocco, Tunisia and Egypt

*3: Requires < API SN PLUS (or above) Full synthetic > grade engine oil. If a lower grade engine oil (mineral oil including Semi-synthetic) is used, then the engine oil and engine oil filter must be replaced as indicated severe maintenance condition.

*4: Requires < API Latest (ILSAC Latest) or ACEA A5/B5 Full synthetic > grade engine oil. If a lower grade engine oil (mineral oil including Semi-synthetic) is used, then the engine oil and engine oil filter must be replaced as indicated severe maintenance condition.

*5: An engine oil displaying this American Petroleum Institute (API) Certification Mark conforms to the International Lubricant Specification Advisory Committee (ILSAC). It is recommended to only use engine oils that uphold this API Certification Mark.



Lubricant			Volume	Classification
Intelligent variable transmission fluid	Gasoline Engine	Smartstream G2.0 Atkinson	6.7 ℓ (7.1 US qt.)	CVTF SP-CVT1
Dual clutch transmission fluid	Gasoline Engine	Smartstream G1.0 T-GDi	1.6~1.7 ℓ (1.7~1.8 US qt.)	API GL-4, SAE 70W HK D DCTF TGO-10 (SK) SPIRAX S6 GHDE 70W DCTF (H.K.SHELL) 7 DCTF HKM (S-OIL)
		Smartstream G1.6 T-GDi		
Diesel Engine	Smartstream D1.6 (48V) MHEV			
Coolant	Gasoline Engine	Smartstream G1.0 T-GDi/ Smartstream G1.0 T-GDi (48V) MHEV	5.9 ℓ (6.2 US qt.)	Mixture of antifreeze and distilled water (Ethylene-glycol with phosphate based coolant for aluminum radiator)
		Smartstream G1.6 T-GDi	6.9 ℓ (7.3 US qt.)	
		Smartstream G2.0 Atkinson	6.0 ℓ (6.3 US qt.)	
	Diesel Engine	Smartstream D1.6 (48V) MHEV	6.0 ℓ (6.3 US qt.)	
Rear differential oil (4WD)			0.47 ~ 0.52 ℓ (0.5 ~ 0.55 US qt.)	HYPOID GEAR OIL API GL-5, SAE75W/90 (SHELL HD AXLE OIL 75W90 or equivalent)
Transfer case oil (4WD)	Gasoline Engine	Smartstream G1.6 T-GDi	0.47~0.52 ℓ (0.49~0.55 US qt.)	HYPOID GEAR OIL API GL-5, SAE 75W85(SK HCT-5 GEAR OIL 75W85 or EQUIVALENT)
		Smartstream G2.0 Atkinson	0.38 ~ 0.42 ℓ (0.4 ~ 0.44 US qt.)	
	Diesel Engine	Smartstream D1.6 (48V) MHEV	0.5 ℓ (0.53 US qt.)	
Brake/clutch fluid			0.7 ~ 0.8 ℓ (0.5 ~ 0.6 US qt.)	SAE J1704 DOT-4 LV, FMVSS 116 DOT-4, ISO4925 CLASS-6
iMT (Intelligent Manual Transmission)	Gasoline Engine	Smartstream G1.0 T-GDi 48V MHEV	0.082 ℓ (0.087 US qt.)	SAE J1704 DOT-4 LV, ISO4925 CLASS-6, FMVSS116 DOT-4, FMVSS116 DOT-3
	Diesel Engine	Smartstream D1.6 (48V) MHEV	0.086 ℓ (0.091 US qt.)	
Fuel			50 ℓ (13.21 US gal.)	Refer to “Fuel Requirements” in the Introduction chapter.
Urea (Diesel only, if equipped)			12 ℓ (12.68 US qt.)	ISO22241, DIN70070

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.

■ Smartstream G1.0 T-GDi / Smartstream G1.0 T-GDi (48V) MHEV

		Temperature Range for SAE Viscosity Numbers									
Temperature	°C	-30	-20	-10	0	10	20	30	40	50	
	(°F)	-10	0	20	40	60	80	100	120		
For all countries										20W-50	
								15W-40			
						10W-30					
		0/5W-20, 0/5W-30, 5W-40									

■ Smartstream G1.6 T-GDi

		Temperature Range for SAE Viscosity Numbers									
Temperature	°C	-30	-20	-10	0	10	20	30	40	50	
	(°F)	-10	0	20	40	60	80	100	120		
For Middle East		5W-30									
Except Middle East		0W-20									

■ Smartstream G2.0 Atkinson

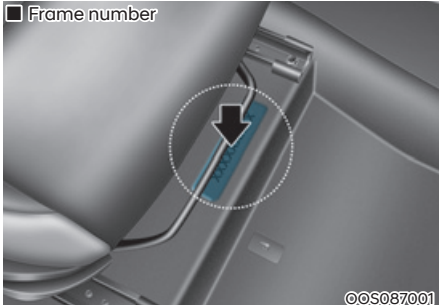
		Temperature Range for SAE Viscosity Numbers								
Temperature	°C	-30	-20	-10	0	10	20	30	40	50
	(°F)	-10	0	20	40	60	80	100	120	
For all countries		0W-20								

■ Smartstream D1.6 (48V) MHEV

		Temperature Range for SAE Viscosity Numbers							
Temperature	°C	-30	-20	-10	0	10	20	30	40
	(°F)	-10	0	20	40	60	80	100	
Diesel Engine Oil		10W-30/40							
		5W-30/40							
		0W-30							
		0W-20							

VEHICLE IDENTIFICATION NUMBER (VIN)

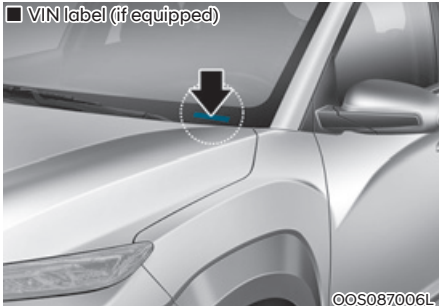
■ Frame number



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

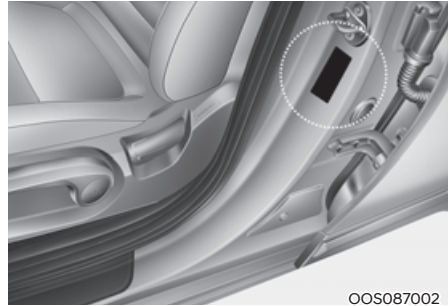
The number is punched on the floor under the right front seat. To check the number, open the cover.

■ VIN label (if equipped)



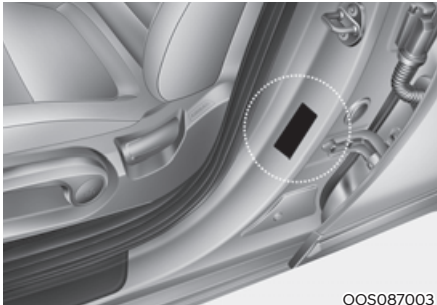
The VIN is also on a plate attached to the top of the left side dashboard. The number on the plate can easily be seen through the windshield from outside.

VEHICLE CERTIFICATION LABEL



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

TIRE SPECIFICATION AND PRESSURE LABEL

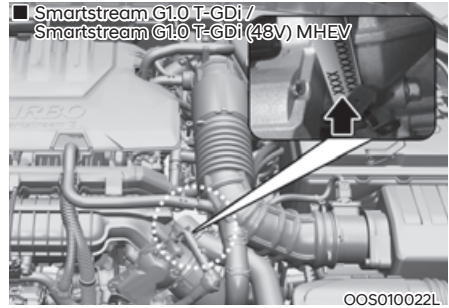


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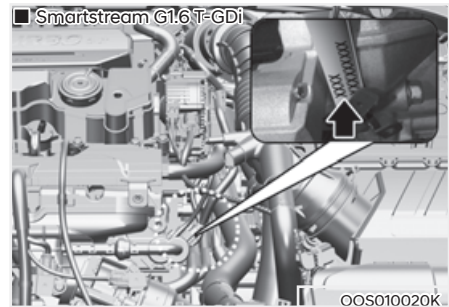
The tires supplied on your new vehicle are chosen to provide the best performance for normal driving.

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

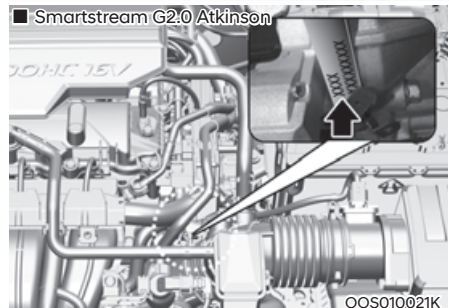
ENGINE NUMBER



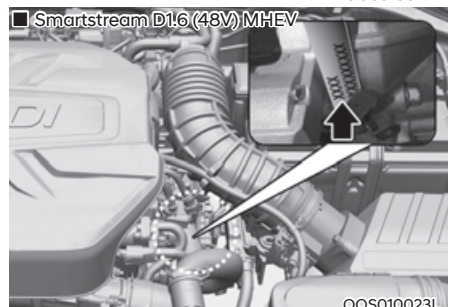
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OOS010020K



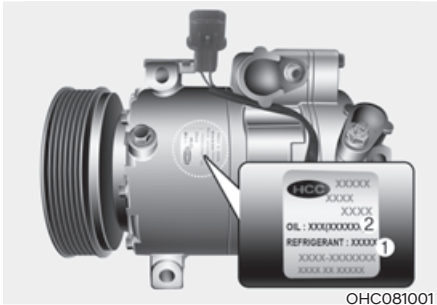
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OOS010023L

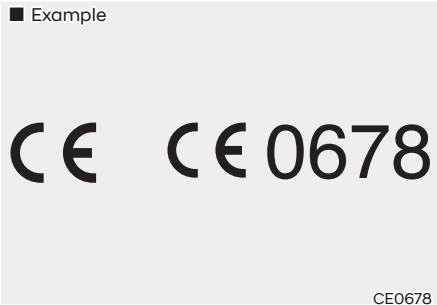
The engine number is stamped on the engine block as shown in the drawing.

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).

DECLARATION OF CONFORMITY (IF EQUIPPED)



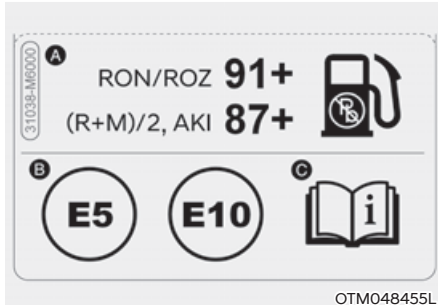
The radio frequency components of the vehicle comply with requirements and other relevant provisions of Directive 1995/5/EC.

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)

Gasoline engine

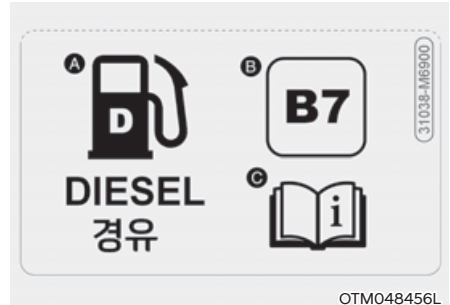
The fuel label is attached on the fuel filler door.



- A. Octane rating of unleaded gasoline
 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” section in the Introduction chapter.

Diesel engine

The fuel label is attached on the fuel filler door.



- A. Fuel : Diesel
- B. Identifiers for FAME containing Diesel-type fuels
 - * This symbol means usable fuel. Do not use any other fuel.
- C. For further details, refer to the “Fuel Requirement” section in this chapter.

3. Safety system

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 to replace them. So even though your vehicle is equipped with air bags, ALWAYS make sure you and your passengers wear your seat belts, and wear them properly.

Restrain all children

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

Air bag hazards

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

Driver distraction

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

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

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

Control your speed

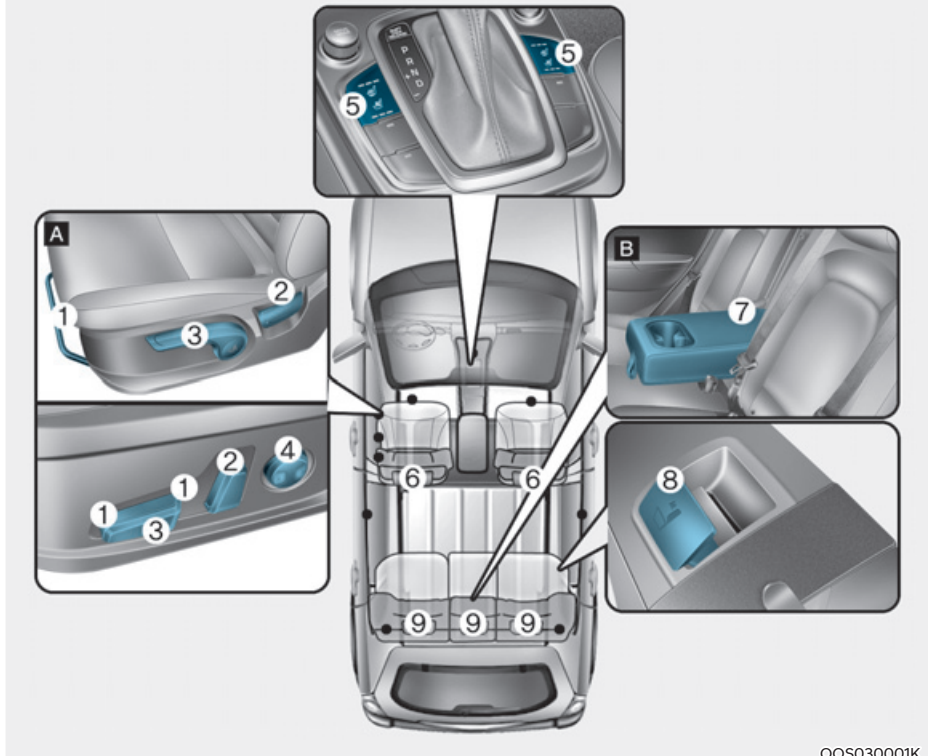
Excessive speed is a major factor in crash injuries and deaths. Generally, the higher the speed, the greater the risk, but serious injuries can also occur at lower speeds. Never drive faster than is safe for current conditions, regardless of the maximum speed posted.

Keep your vehicle in safe condition

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

SEATS

■ Left-hand drive



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[A] : Front seat, [B] : Rear seat

Front seat

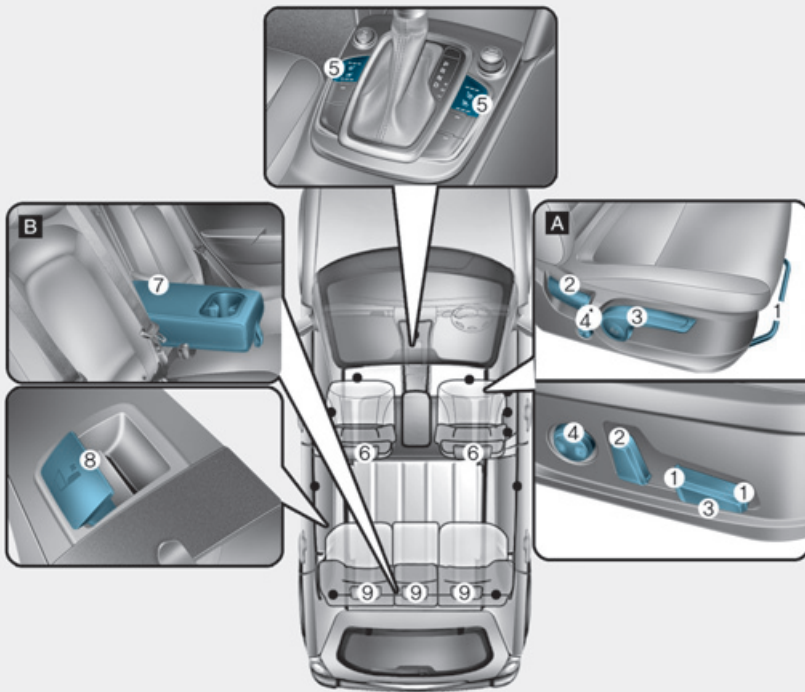
- (1) Forward and backward
- (2) Seatback angle
- (3) Seat cushion height*
- (4) Lumbar support (Driver's seat)*
- (5) Seat warmer*/Air ventilation seat*
- (6) Headrest

Rear seat

- (7) Armrest*
- (8) Seatback folding
- (9) Headrest

* : if equipped

■ Right-hand drive



OOS030001R

[A] : Front seat, [B] : Rear seat

Front seat

- (1) Forward and backward
- (2) Seatback angle
- (3) Seat cushion height*
- (4) Lumbar support (Driver's seat)*
- (5) Seat warmer*/Air ventilation seat*
- (6) Headrest

Rear seat

- (7) Armrest*
- (8) Seatback folding
- (9) Headrest

* : 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, as much as 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, while still maintaining control of the vehicle.



WARNING

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

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

Seat belts

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



WARNING

Take the following precautions when adjusting your seat belt:

- **NEVER** use one seat belt for more than one occupant.
- **Always** position the seatback upright with the lap portion of the seat belt snug and low across the hips.
- **NEVER** allow children or small infants to ride on a passenger's lap.
- **Do not** route the seat belt across your neck, across sharp edges, or reroute the shoulder strap away from your body.
- **Do not** allow the seat belt to become caught or jammed.

Front seats

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:

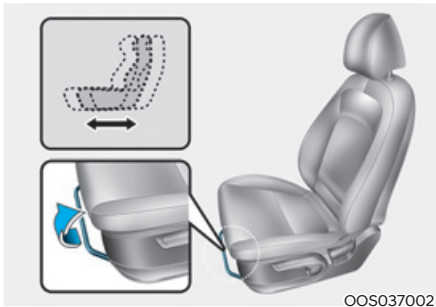
- **NEVER** attempt to adjust the seat while the vehicle is moving. The seat could respond with unexpected movement and may cause loss of vehicle control resulting in an accident.
- **Do not** place anything under the front seats. Loose objects in the driver's foot area could interfere with the operation of the foot pedals, causing an accident.
- **Do not** allow anything to interfere with the normal position and proper locking of the seatback.
- **Do not** place a cigarette lighter on the floor or seat. When you operate the seat, gas may exit out of the lighter causing a fire.
- **Use** extreme caution when picking up small objects trapped under the seats or between the seat and the center console. Your hands might be cut or injured by the sharp edges of the seat mechanism.
- **If** there are occupants in the rear seats, be careful while adjusting the front seat position.
- **Make** sure that the seat is locked in place after the adjustment. If not, the seat might move unexpectedly resulting in an accident.

CAUTION

To prevent injury:

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

Manual adjustment (if equipped)

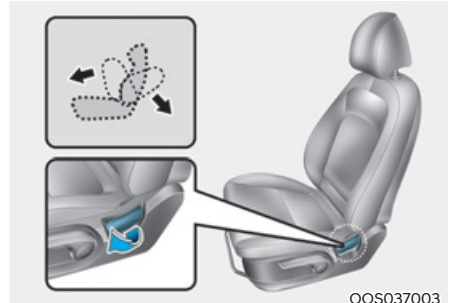


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Forward and rearward adjustment

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.



OOS037003

Seatback angle

To recline the seatback:

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

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

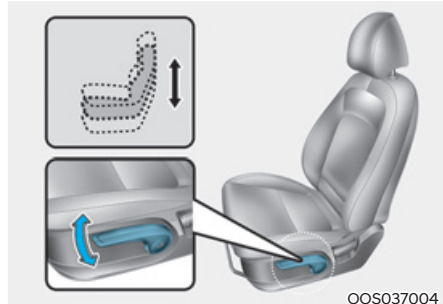
NEVER ride with a reclined seatback when the vehicle is moving.

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 cushion height (for driver's seat)

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.

Power adjustment (if equipped)

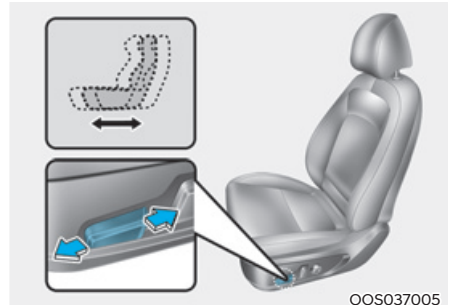
WARNING

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.

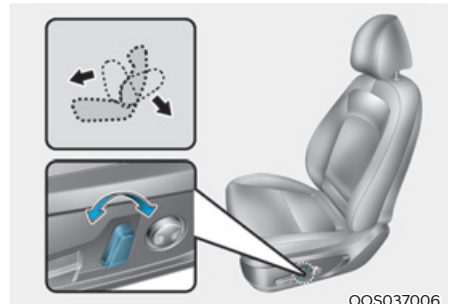


OOS037005

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.



OOS037006

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

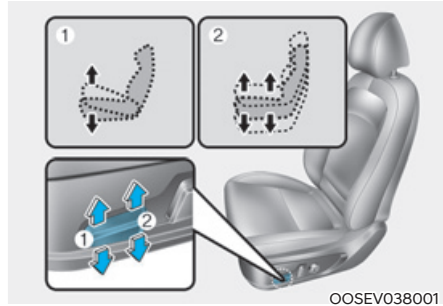
NEVER ride with a reclined seatback when the vehicle is moving.

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, 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.



OOSEV038001

Seat cushion tilt (1, if equipped)

To change the angle of the front part of the cushion:

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

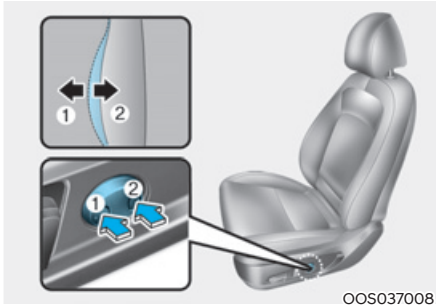
Release the switch once the seat reaches the desired position.

Seat cushion height (2, if equipped)

To change the height of the seat cushion:

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

Release the switch once the seat reaches the desired position.



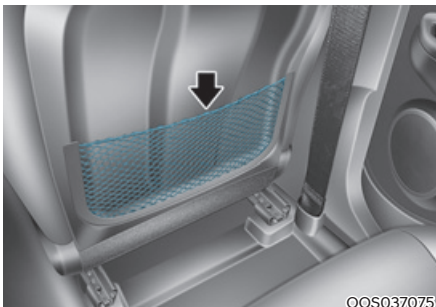
OOS037008

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

To adjust the lumbar support:

1. Press the front portion of the switch (1) to increase support or the rear portion of the switch (2) to decrease support.
2. Release the switch once it reaches the desired position.

Seatback pocket (if equipped)



OOS037075

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

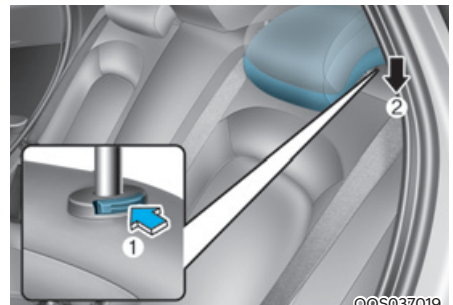
Folding the rear seat

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



WARNING

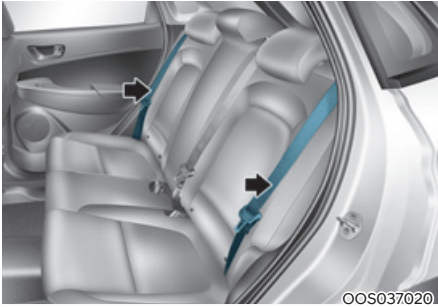
- Never allow passengers to sit on top of the folded down seatback while the vehicle is moving. This is not a proper seating position and no seat belts are available for use. This could result in serious injury or death in case of an accident or sudden stop.
- Objects carried on the folded down seatback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



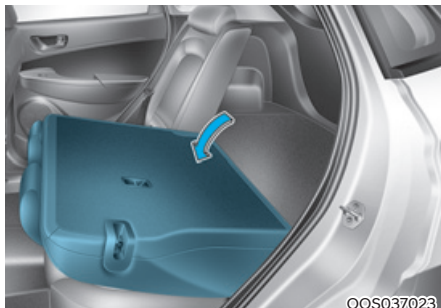
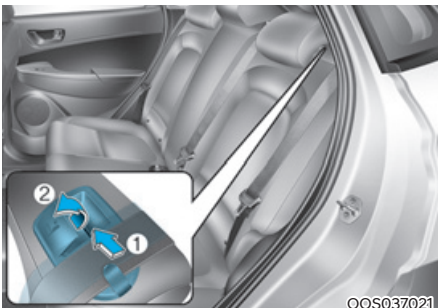
OOS037019

To fold down the rear seatback:

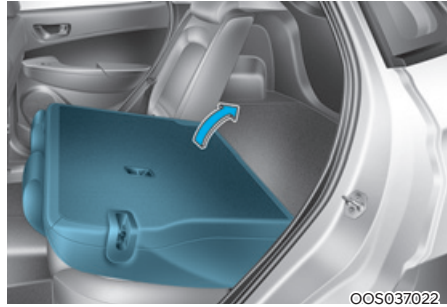
1. Set the front seatback to the upright position and if necessary, slide the front seat forward.
2. Lower the rear headrests to the lowest position by pushing and holding the release button (1) and pushing down on the headrest (2).



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



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



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

 **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.

⚠ CAUTION

Damaging rear seat belt buckles

When you fold the rear seatback, insert the buckle in the pocket between the rear seatback and cushion. Doing so can prevent the buckle from being damaged by the rear seatback.

⚠ CAUTION

Rear seat belts

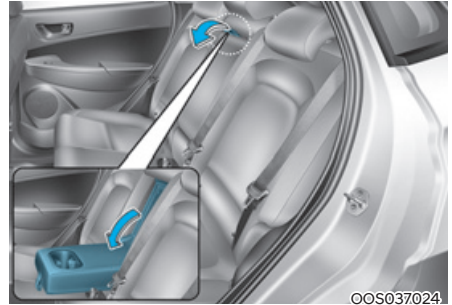
When returning the rear seatbacks to the upright position, to return the rear shoulder belts to their proper position. Be careful not to damage the seat belt webbing by seat back locking mechanism.

NOTICE

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

⚠ 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.

Armrest (if equipped)

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

Headrest

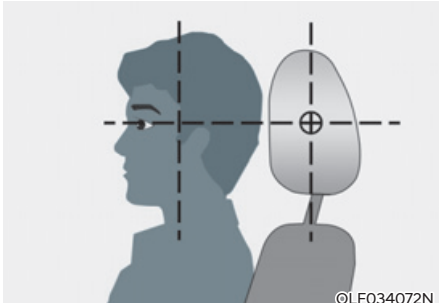
The vehicle's front and rear seats have adjustable headrests. The headrests provide comfort for passengers, but more importantly they are designed to help protect passengers from whiplash and other neck and spinal injuries during an accident, especially in a rear impact collision.



WARNING

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

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



Adjust the headrests so the middle of the headrest is at the same height as the height of the top of the eyes.

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

NOTICE

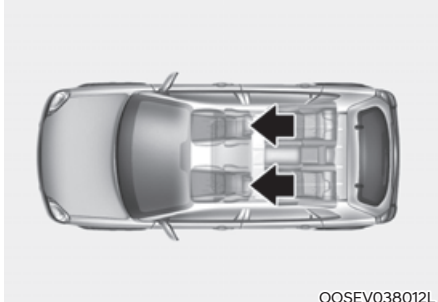
To prevent damage, **NEVER** hit or pull on the headrests.



CAUTION

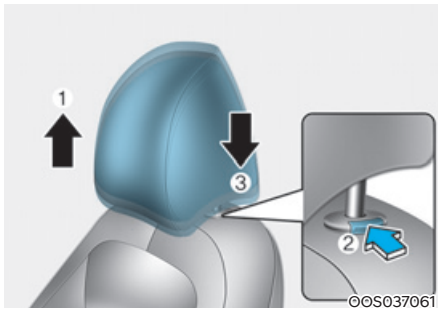
When there is no occupant in the rear seats, adjust the height of the headrest to the lowest position. The rear seat headrest can reduce the visibility of the rear area.

Front seat headrests



OOSEV038012L

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



©OS037061

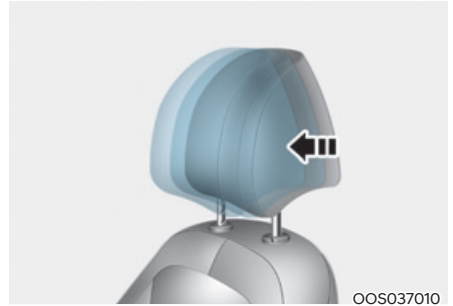
Adjusting the height up and down

To raise the headrest:

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

To lower the headrest:

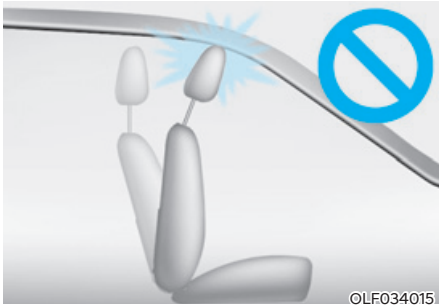
1. Push and hold the release button (2) on the headrest support.
2. Lower the headrest to the desired position (3).



©OS037010

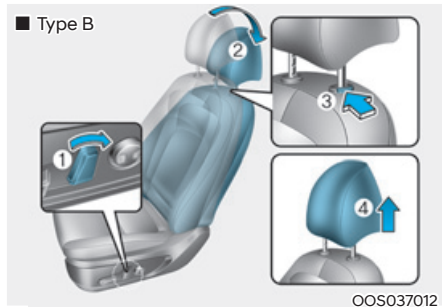
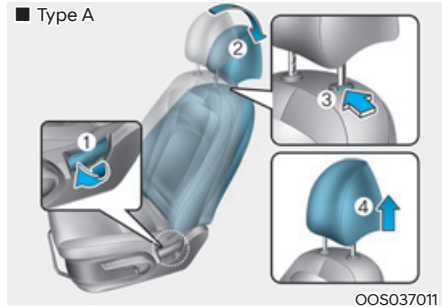
Forward and rearward adjustment (if equipped)

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



NOTICE

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



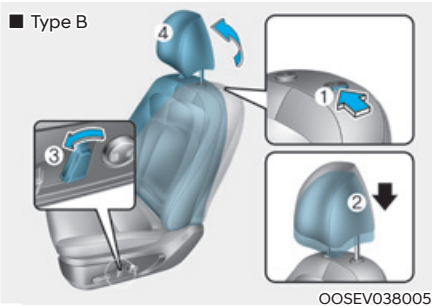
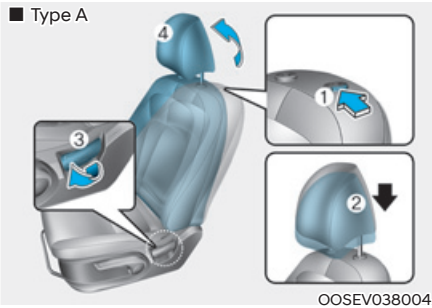
Removal/Reinstall

To remove the headrest:

1. Recline the seatback (2) with using the seatback angle lever or switch (1).
2. Raise the headrest as far as it can go.
3. Press the headrest release button (3) while pulling the headrest up (4).

 **WARNING**

NEVER allow anyone to travel in a seat with the headrest removed.



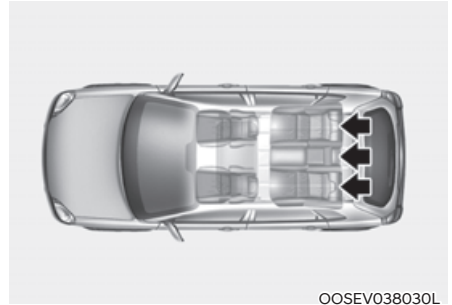
To reinstall the headrest :

1. Recline the seatback.
2. Put the headrest poles (2) into the holes while pressing the release button (1).
3. Adjust the headrest to the appropriate height.
4. Recline the seatback (4) the seatback angle lever or switch (3).

WARNING

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

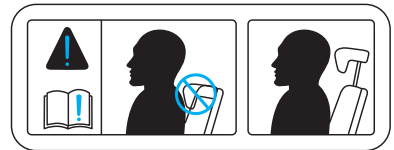
Rear seat headrests



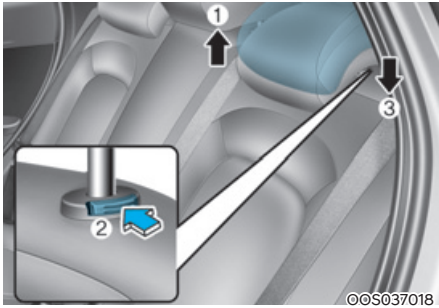
The rear seats are equipped with headrests in all the seating positions for the passenger's safety and comfort.

CAUTION

- Adjust the headrests so the middle of the headrest is at the same height as the height of the top of the eyes.



- When sitting on the rear seat, do not adjust the height of the headrest to the lowest.



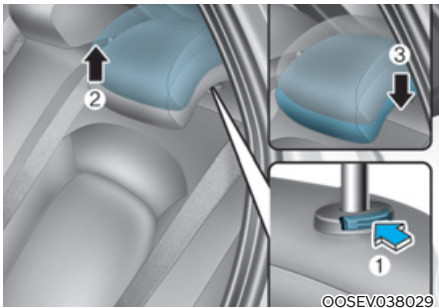
Adjusting the height up and down

To raise the headrest:

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

To lower the headrest:

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



Removal/Reinstallation

To remove the headrest:

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

To reinstall the headrest:

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

Seat warmers and air ventilation seats

Front seat warmers (if equipped)

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

WARNING

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

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

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

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

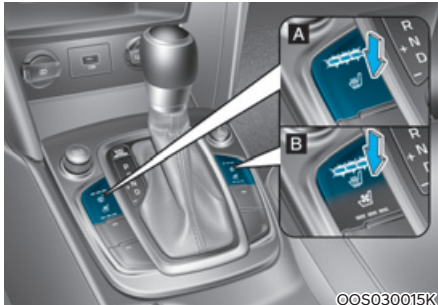
WARNING

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

NOTICE

To prevent damage to the seat warmers and seats:

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

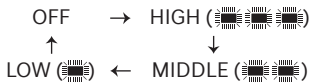


[A] : Type A, [B] : Type B

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

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

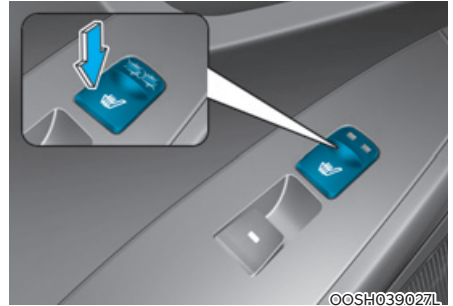
- Each time you push the switch, the temperature setting of the seat is changed as follows :



- 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.

Rear seat warmers (if equipped)

While the vehicle is in the ready (🚗) mode, push either of the switches to warm the rear seat. During mild weather or under conditions where the operation of the seat warmer is not needed, keep the switches in the OFF position.

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

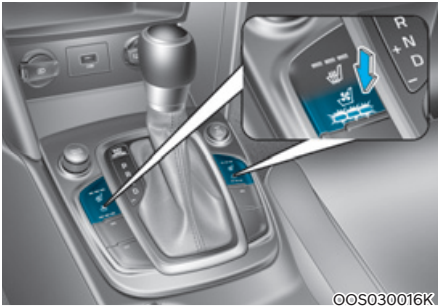


The seat warmer defaults to the OFF position whenever the ignition switch is in the ON position.

i Information

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

Front air ventilation seat (if equipped)

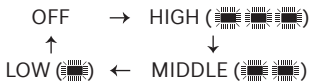


The air ventilation seats are provided to cool the front seats by blowing air through small vent holes on the surface of the seat cushions and seatbacks.

When the operation of the air ventilation seat is not needed, keep the switches in the OFF position.

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

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



- When pressing the switch for more than 1.5 seconds with the air ventilation seat operating, the operation will turn OFF.
- The air ventilation seats default to the OFF position whenever the ignition switch is placed to the ON position.

NOTICE

To prevent damage to the air ventilation seat:

- Use the air ventilation seat **ONLY** when the climate control system is on. Using the air ventilation seat for prolonged periods of time with the climate control system off could cause the air ventilation seat to malfunction.
- Never use a solvent such as paint thinner, benzene, alcohol or gasoline to clean the seats.
- Avoid spilling liquids on the surface of the front seats and seatbacks; this may cause the air vent holes to block and not work properly.
- Do not place materials such as plastic bags or newspapers under the seats. They may block the air intake causing malfunction of the air ventilation.
- Do not change the seat covers. It may damage the air ventilation seat.
- If the air vents do not operate, restart the vehicle. If there is no change, we recommend that you have your vehicle inspected by an authorized HYUNDAI dealer.

SEAT BELTS

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

Seat belt safety precautions

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



WARNING

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

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

- **NEVER** wear a seat belt over fragile objects. If there is a sudden stop or impact, the seat belt can damage it.
- Do not use the seat belt if it is twisted. A twisted seat belt will not protect you properly in an accident.
- Do not use a seat belt if the webbing or hardware is damaged.
- Do not latch the seat belt into the buckles of other seats.
- **NEVER** unfasten the seat belt while driving. This may cause loss of vehicle control resulting in an accident.
- Make sure there is nothing in the buckle interfering with the seat belt latch mechanism. This may prevent the seat belt from fastening securely.
- No modifications or additions should be made by the user which will either prohibit the seat belt adjusting devices from operating to remove slack, or prohibit the seat belt assembly from being adjusted to remove slack.



WARNING

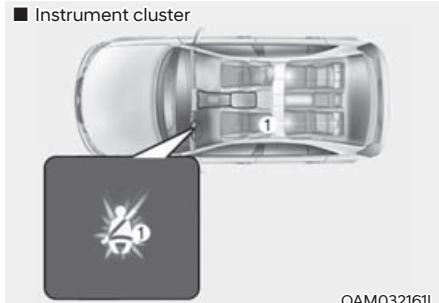
Damaged seat belts and seat belt assemblies will not operate properly. Always replace:

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

Seat belt warning light

Seat belt warning

■ Instrument cluster



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 driver's seat belt is not fastened, the warning chime will sound for about 6 seconds.

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 20km/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 20km/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 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 20km/h, the corresponding warning light will continue to illuminate until you fasten the seat belt.

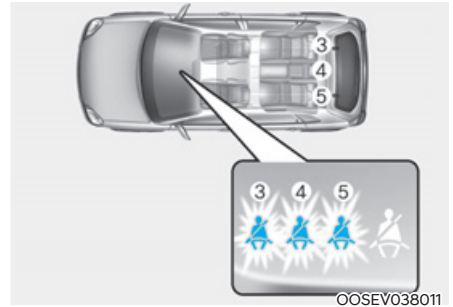
If you continue to drive without the seat belt fastened or you unfasten the seat belt when you drive over 20km/h, the seat belt warning chime will sound for approximately 100 seconds and the corresponding warning light will blink.

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 properly be seated as instructed in this manual.

Information

- You can find the front passenger's seat belt warning light on the center 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.

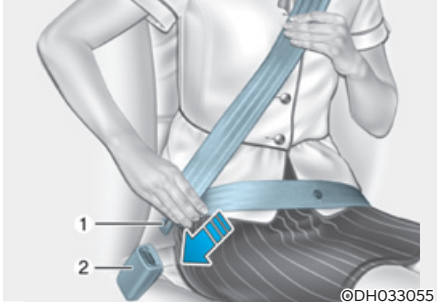


Rear passenger's seat belt warning

- As a reminder to the rear passenger, 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.
- If the seat belt is not fastened when the ignition switch is turned ON, the seat belt warning light will illuminate for approximately 70 seconds.
- If you start to drive without the seat belt fastened or you unfasten the seat belt when you drive under 20km/h, the corresponding warning light will continue to illuminate for approximately 70 seconds.
- If you unfasten the seat belt when you drive over 20km/h, the seat belt warning chime will sound for approximately 35 seconds and the corresponding warning light will blink.
- If the seat belt is fastened, the warning light will turn off immediately.
- If the rear door is opened or closed under 10km/h, warning light and warning sound does not work even if driving over 20km /h.

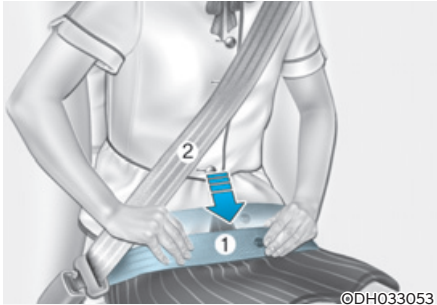
Seat belt restraint system

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.



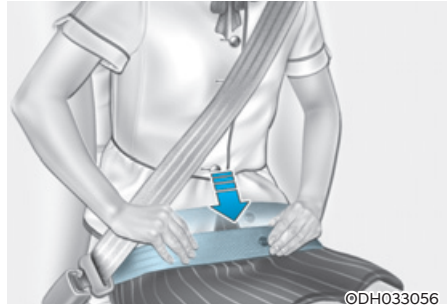
You should place the lap belt (1) portion across your hips and the shoulder belt (2) portion across your chest.

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.



⚠ WARNING

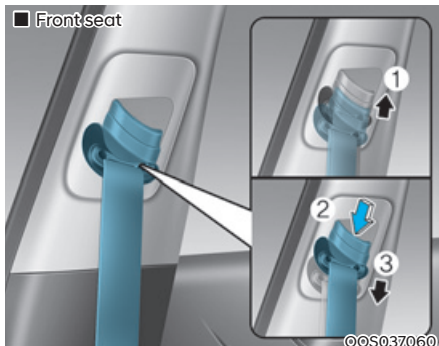
Improperly positioned seat belts may increase the risk of serious injury in an accident. Take the following precautions when adjusting the seat belt:

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

Height adjustment

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

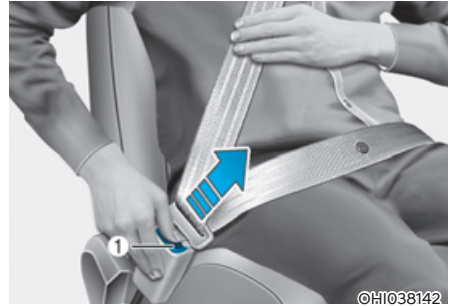
The shoulder portion should be adjusted so it lies across your chest and midway over your shoulder nearest the door, not over your neck.



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

To raise the height adjuster, pull it up (1). To lower it, push it down (3) while pressing the height adjuster button (2).

Release the button to lock the anchor into position. Try sliding the height adjuster to make sure that it has locked into position.

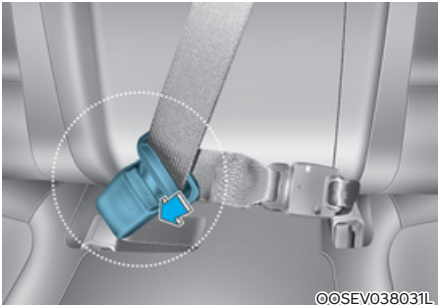


To release your seat belt:

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

Once 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 center seatbelt (3-point rear center seat belt)



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

i Information

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

! WARNING

Make sure that the seatback is locked in place when using the rear center seat belt.

If not, the seatback may move when there is a sudden stop or collision, which could result in serious injury.

Pre-tensioner seat belt



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

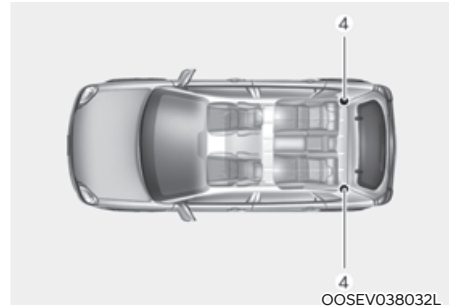
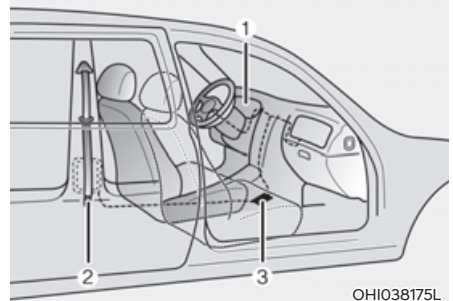
- Always wear your seat belt and sit properly in your seat.
- Do not use the seat belt if it is loose or twisted. A loose or twisted seat belt will not protect you properly in an accident.
- Do not place anything near the buckle. This may adversely affect the buckle and cause it to function improperly.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

WARNING

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

CAUTION

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



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

- (1) SRS air bag warning light
- (2) Retractor pre-tensioner
- (3) SRS control module
- (4) Rear Retractor pre-tensioner (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 an authorized HYUNDAI dealer as soon as possible.

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

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 rearmost position.

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



WARNING

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

Seat belt use and injured people

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

One person per belt

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

Do not lie down

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

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

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

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



WARNING

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

Care of seat belts

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

Periodic inspection

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

Keep belts clean and dry

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

When to replace seat belts

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

CHILD RESTRAINT SYSTEM (CRS)

**Our recommendation:
Children 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 minimize the risk of injury in an accident, sudden stop or sudden maneuver.

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

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

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

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

Child Restraint System (CRS)

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



WARNING

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

Selecting a Child Restraint System (CRS)

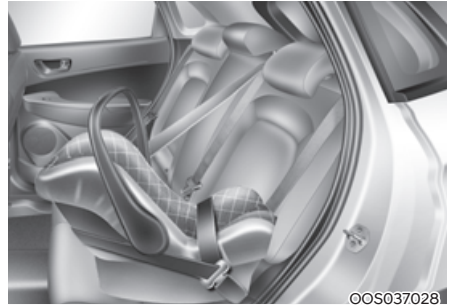
When selecting a Child Restraint System for your child, always:

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

Child Restraint System types

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

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



Rearward-facing Child Restraint System

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

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

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



Forward-facing Child Restraint System

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

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

Booster seats

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

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

Installing a Child Restraint System (CRS)



WARNING

Before installing your Child Restraint System always:

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

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



WARNING

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

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

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

- **Make sure the Child Restraint System is firmly secured.** After installing a Child Restraint System to the vehicle, push and pull the seat forward and from side-to-side to verify that it is securely attached to the seat. A Child Restraint System secured with a seat belt should be installed as firmly as possible. However, some side-to-side movement can be expected.

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

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




CAUTION

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

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

(Information for use by vehicle users and CRS manufacturers)

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

CRS categories		Seating positions						Seating position
		1	2	3	4	5	6	
Universal belted CRS		-	-	Yes ¹⁾ F, R	Yes F, R	Yes ²⁾ F, R	Yes F, R	<p>F : Forward facing R : Rearward facing</p>  <p>OOSEV038035L</p>
i-size CRS		-	-	No	Yes F, R	No	Yes F, R	
ISOFIX infant CRS (i.e. CRS for a baby)	ISOFIX (R1)	-	-	No	Yes R	No	Yes R	
Carry cot (ISOFIX lateral facing CRS)	ISOFIX (L1,L2)	-	-	No	No	No	No	
ISOFIX toddler CRS - small	ISOFIX (F2,F2X, R2X)	-	-	No	Yes F, R	No	Yes F, R	
ISOFIX toddler CRS – large* (* : not booster seats)	ISOFIX (F3, R3)	-	-	No	Yes ³⁾ F, R	No	Yes ³⁾ F, R	
Booster Seat - reduced Width	ISO CRF: B2	-	-	No	Yes	No	Yes	
Booster Seat - full Width	ISO CRF: B3	-	-	No	No	No	No	

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

Note¹⁾ : You should adjust seatback or seat pumping(if equipped) properly.

Note²⁾ : The seating position(number 5) is not suitable for fitment of child restraint system with support leg.

Note³⁾ : For fitment of ISOFIX toddler's rearward facing large CRS

- Driver's seat : Seat pumping should be adjusted to appropriate height.
 - Front passenger seat : Seat sliding should be adjusted to appropriate position.
- * Never place a rearward facing Child Restraint System on the front passenger seat, unless the passenger air bag is deactivated.
 - * For semi-universal or vehicle specific CRS (ISOFIX or belted CRS), please see the vehicle list provided in the manual of CRS.
 - * It is recommended to remove the head restraint, when CRS is unstable due to head restraint

Recommended Child Restraint Systems (for Europe)

Mass group	Name	Manufacturer	Type of Fixation	ECE-R44/R129 Approval No.
Group 0+	Cabriofix & Familyfix	Maxi Cosi	ISOFIX	E4 04443907
Group I	Duo Plus	Britax Römer	ISOFIX and top-tether	E1 04301133
Group II	KidFix II XP	Britax Römer	ISOFIX and vehicle belt	E1 04301323
Group III	Junior III	Graco	Vehicle belt	E11 03.44.164 E11 03.44.165

CRS Manufacturer information

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


Britax Römer <http://www.britax.com>

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

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

(Information for vehicle users and CRS manufacturers)

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

CRS categories		Seating positions						Seating position
		1	2	3	4	5	6	
Universal belted CRS		-	-	Yes ¹⁾ F, R	Yes F, R	Yes ²⁾ F, R	Yes F, R	<p>F : Forward facing R : Rearward facing</p>  <p>OOSEV038035L</p>
i-size CRS		-	-	No	Yes F, R	No	Yes F, R	
ISOFIX infant CRS (i.e. CRS for a baby)	ISOFIX (R1)	-	-	No	Yes R	No	Yes R	
Carry cot (ISOFIX lateral facing CRS)	ISOFIX (L1,L2)	-	-	No	No	No	No	
ISOFIX toddler CRS - small	ISOFIX (F2,F2X, R2X)	-	-	No	Yes F, R	No	Yes F, R	
ISOFIX toddler CRS – large* (* : not booster seats)	ISOFIX (F3, R3)	-	-	No	Yes ³⁾ F, R	No	Yes ³⁾ F, R	
Booster Seat - reduced Width	ISO CRF: B2	-	-	No	Yes	No	Yes	
Booster Seat - full Width	ISO CRF: B3	-	-	No	No	No	No	

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

Note¹⁾ : You should adjust seatback or seat pumping(if equipped) properly.

Note²⁾ : The seating position(number 5) is not suitable for fitment of child restraint system with support leg.

Note³⁾ : For fitment of ISOFIX toddler's rearward facing large CRS

- Driver's seat : Seat pumping should be adjusted to appropriate height.
- Front passenger seat : Seat sliding should be adjusted to appropriate position.

* Never place a rearward facing Child Restraint System on the front passenger seat, unless the passenger air bag is deactivated.

* For semi-universal or vehicle specific CRS (ISOFIX or belted CRS), please see the vehicle list provided in the manual of CRS.

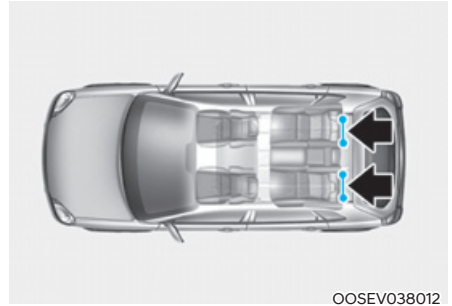
* It is recommended to remove the head restraint, when CRS is unstable due to head restraint

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.



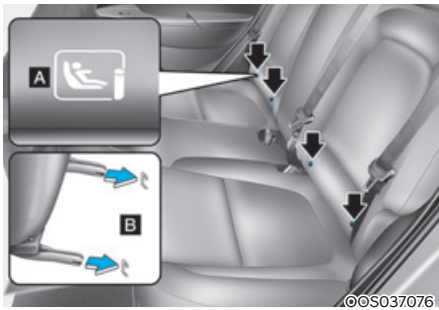
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ISOFIX anchorages have been provided in the left and right outboard rear seating positions. Their locations are shown in the illustration.




WARNING

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



[A] : ISOFIX Anchorage Position Indicator,

[B] : ISOFIX Anchorage

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

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

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

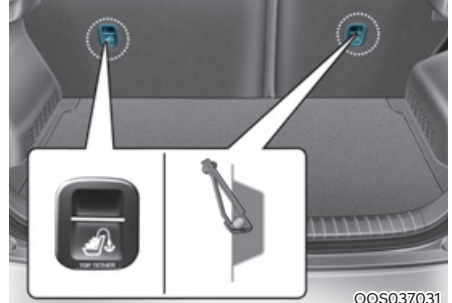
1. Move the seat belt buckle away from the ISOFIX anchorages.
2. Move any other objects away from the anchorages that could prevent a secure connection between the Child Restraint System and the ISOFIX anchorages.
3. Place the Child Restraint System on the vehicle seat, then attach the seat to the ISOFIX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

WARNING

Take the following precautions when using the ISOFIX system:

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

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



OOS037031

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



OOS037032

To install the tether anchor:

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

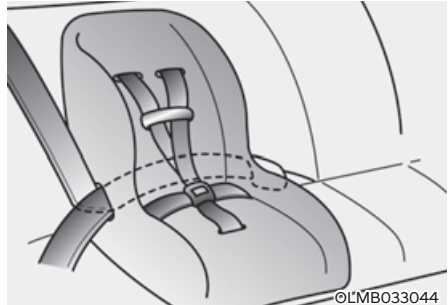
Take the following precautions when installing the top-tether:

- 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.

Under no circumstances are they to be used for adult seat belts or harnesses or for attaching other items or equipment to the vehicle.

Securing a Child Restraint System with a lap/shoulder belt

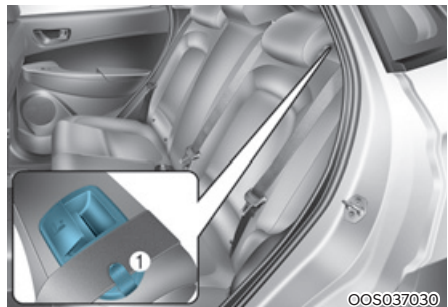
When not using the ISOFIX system, all Child Restraint Systems must be secured to a rear seat with the lap part of a lap/shoulder belt.



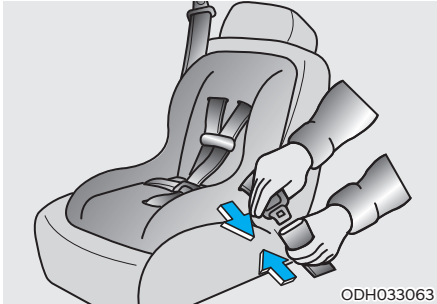
Installing a Child Restraint System with a lap/shoulder belt

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. Make sure to insert the belt into the guide (1) and check that the seat belt is not twisted.



3. 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.



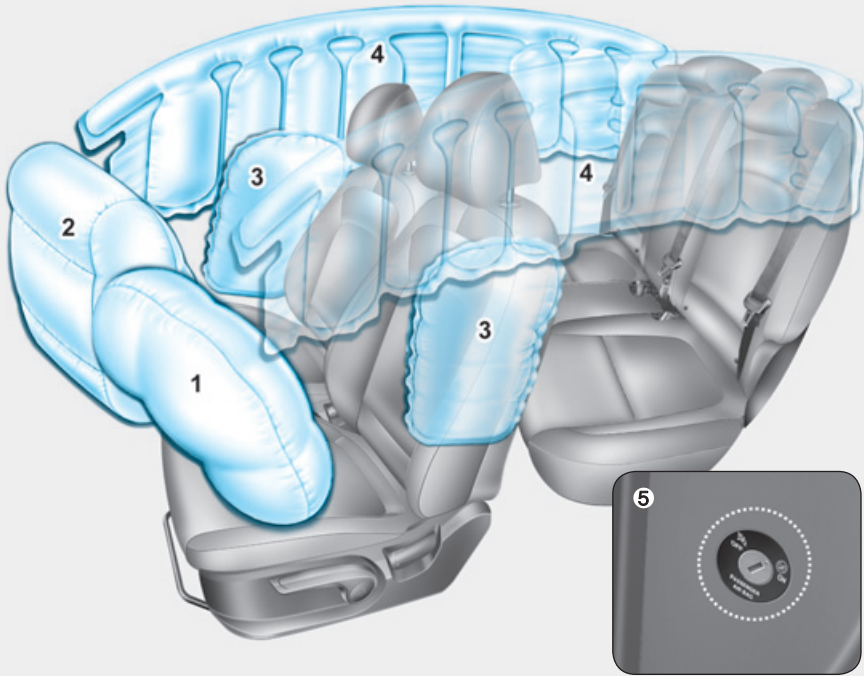
4. Remove as much slack from the belt as possible by pushing down on the Child Restraint System while feeding the shoulder belt back into the retractor.
5. Push and pull on the Child Restraint System to confirm that the seat belt is holding it firmly in place.

If your Child Restraint System manufacturer recommends the use of a top-tether with the lap/shoulder belt, see page 3-43.

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.

AIR BAG - SUPPLEMENTAL RESTRAINT SYSTEM

■ Left-hand drive

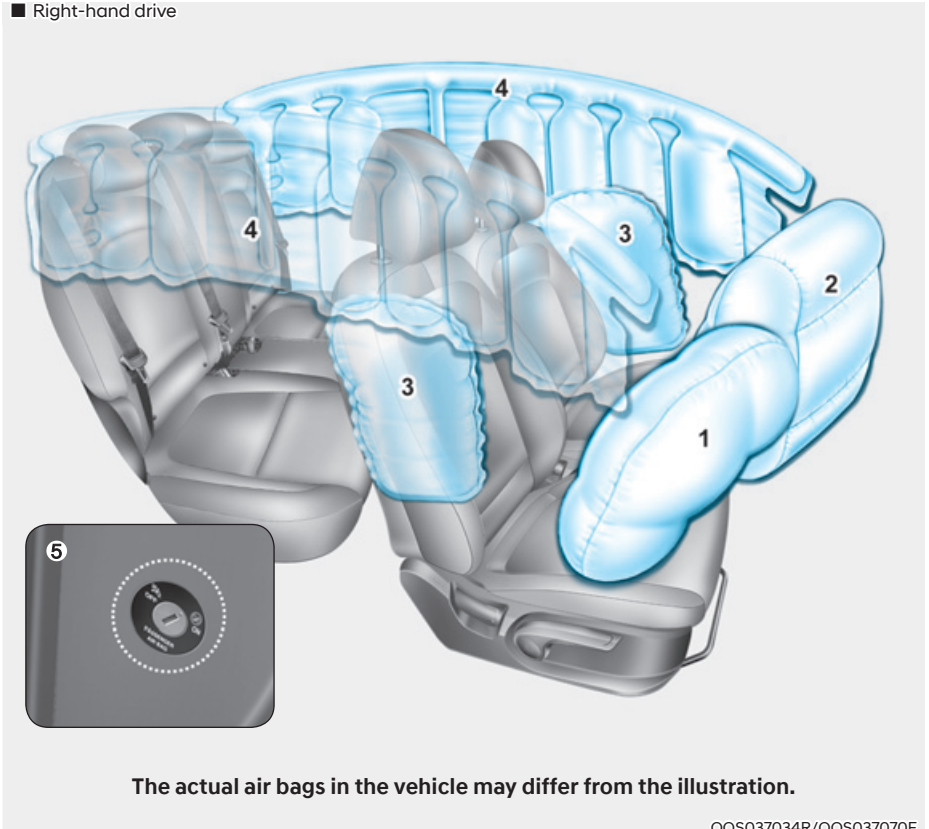


The actual air bags in the vehicle may differ from the illustration.

OOS037034/OOS037070L

- 1. Driver's front air bag
 - 2. Passenger's front air bag
 - 3. Side air bag*
 - 4. Curtain air bag*
 - 5. Front passenger air bag ON/OFF switch*
- * : if equipped

■ Right-hand drive



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

4. Curtain air bag*
5. Front passenger air bag ON/OFF switch*

* : if equipped

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

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

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



WARNING

AIR BAG SAFETY PRECAUTIONS

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

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

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

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

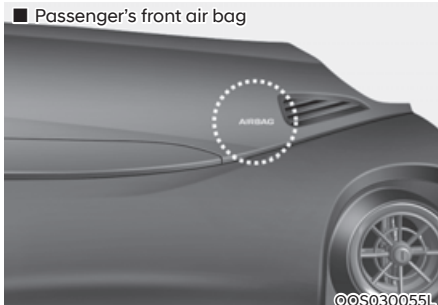
All occupants should sit upright with the seatback in an upright position, centered on the seat cushion with their seat belt on, legs comfortably extended and their feet on the floor until the vehicle is parked and the engine is turned off. If an occupant is out of position during an accident, the rapidly deploying air bag may forcefully contact the occupant causing serious or fatal injuries.

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

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

Where are the air bags?

Driver's and passenger's front air bags



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

The SRS consists of air bags which are located in the center of the steering wheel, 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 labeled with the letters "AIR BAG" embossed on the pad covers.

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

WARNING

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

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



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

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



To 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

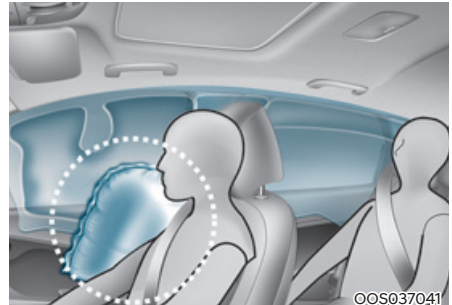
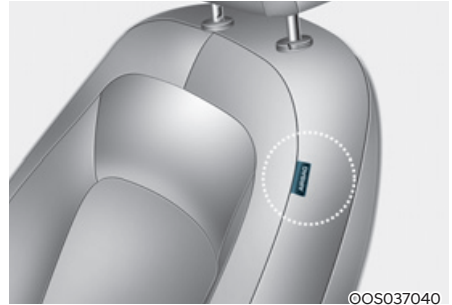
Never allow an adult passenger to ride in the front passenger seat when the passenger air bag OFF indicator is illuminated. During a collision, the air bag will not inflate if the indicator is illuminated. Turn on the passenger's front air bag or have your passenger move to the rear seat.

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 an authorized HYUNDAI dealer inspect the passenger's front air bag ON/OFF switch and the SRS air bag system as soon as possible.

Side air bags (if equipped)



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

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

The side 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.

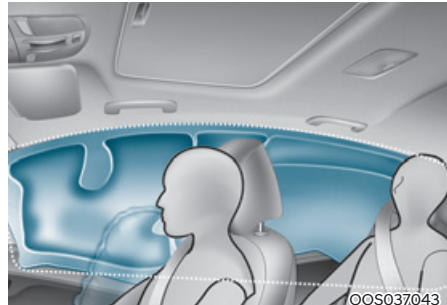


WARNING

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

Curtain air bags (if equipped)



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

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

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

The 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

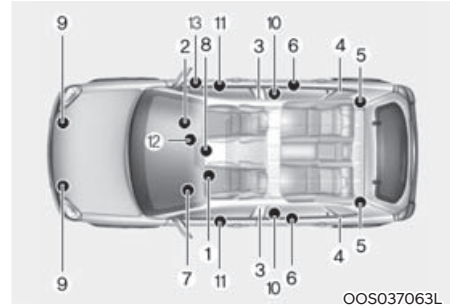
To reduce the risk of serious injury or death from an inflating curtain air bag, take the following precautions:

- All seat occupants must wear seat belts at all times to help keep occupants positioned properly.
- 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 open or repair the side curtain air bags.

How does the air bags system operate?



The SRS consists of the following components:

- (1) Driver's front air bag module
- (2) Passenger's front air bag module
- (3) Side air bag modules
- (4) Curtain air bag modules
- (5) 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 impact sensors (acceleration)
- (11) Side impact sensors (pressure)
- (12) Passenger's front air bag OFF indicator (front passenger's seat only)
- (13) Passenger's front air bag ON/OFF switch

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



WARNING

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

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

- **The light does not turn on for approximately 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 while the vehicle is in motion.**
- **The light blinks when the engine is running.**

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

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

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

- Air bags are activated (able to inflate if necessary) only when the 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.
- 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.

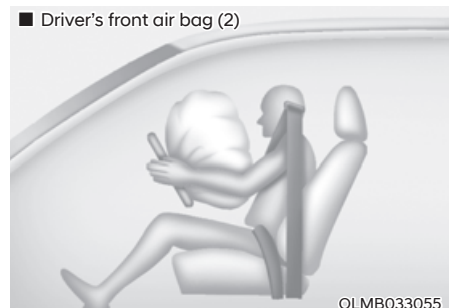
However, the rapid air bag inflation can also cause injuries which can include facial abrasions, bruises and broken bones because the inflation speed also causes the air bags to expand with a great deal of force.

- 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 center of the steering wheel and the chest while still maintaining control of the vehicle.



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



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

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

■ Driver's front air bag (3)



■ Passenger's front air bag



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

 **WARNING**

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

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

What to expect after an air bag inflates

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



WARNING

After an air bag inflates, take the following precautions:

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

Noise and smoke from inflating air bag

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

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

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



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

WARNING

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

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

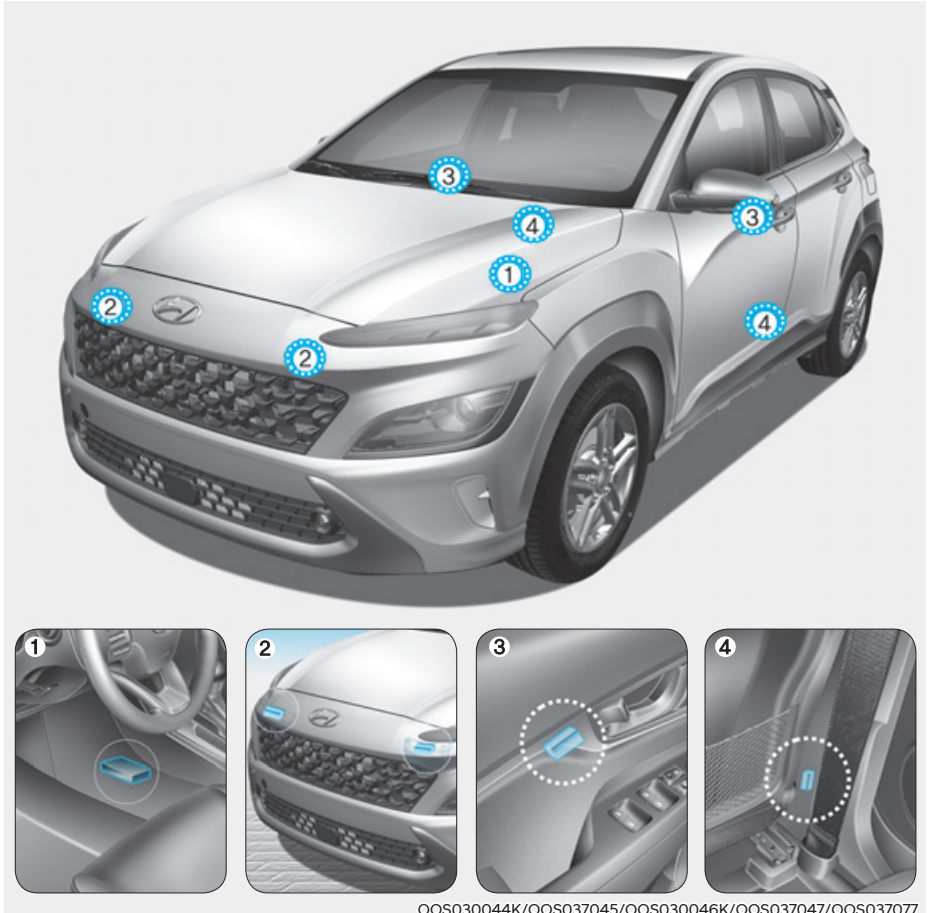
There are certain types of accidents in which the air bag would not be expected to provide additional protection. These include rear impacts, second or third collisions in multiple impact accidents, as well as low speed impacts. Damage to the vehicle indicates a collision energy absorption, and is not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

Air bag collision sensors

WARNING

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

- Do not hit or allow any objects to impact the locations where air bags or sensors are installed.
- Do not perform maintenance on or around the air bag sensors. If the location or angle of the sensors is altered, the air bags may deploy when they should not or may not deploy when they should.
- Installing bumper guards with non-genuine HYUNDAI or non-equivalent parts may adversely affect the collision and air bag deployment performance. To ensure correct function of the airbag system we recommend to replace the bumper with genuine HYUNDAI part or the equivalent (of the genuine part) specified for your vehicle.
- 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 an authorized HYUNDAI dealer.



OOS030044K/OOS037045/OOS030046K/OOS037047/OOS037077

1. SRS control module
2. Front impact sensor (front door)
3. Side pressure sensor (front)*
4. Side impact sensor (rear)*

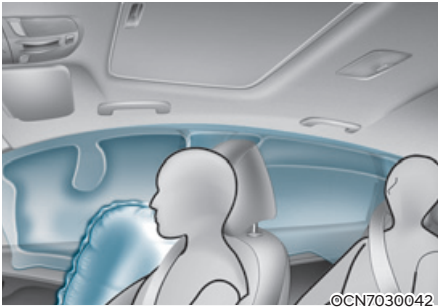
* : if equipped

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.

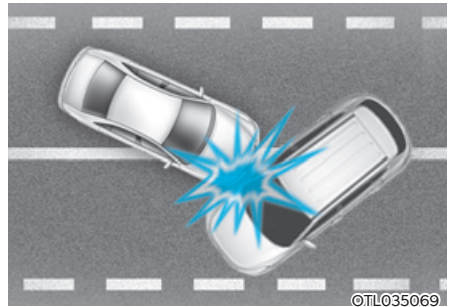


Front air bags are not designed to inflate in rear collisions, because occupants are moved backward by the force of the impact. In this case, inflated air bags would not provide any additional benefit.

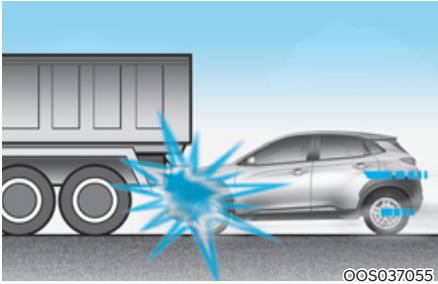


Front air bags may not inflate in side impact collisions, because occupants move in the direction of the collision, and thus in side impacts, front air bag deployment would not provide additional occupant protection.

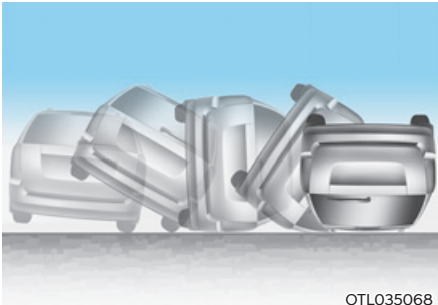
However, side and curtain air bags may inflate depending on the severity, vehicle speed and angles of impact.



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.



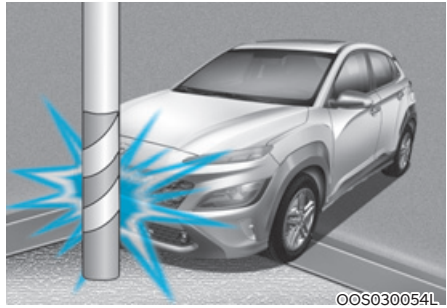
Just before impact, drivers often brake heavily. Such heavy braking lowers the front portion of the vehicle causing it to “ride” under a vehicle with a higher ground clearance. Air bags may not inflate in this “under-ride” situation because deceleration forces that are detected by sensors may be significantly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



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 an authorized HYUNDAI dealer.

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



WARNING

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

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

Additional safety precautions

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

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

Do not modify the front seats. Modification of the front seats could interfere with the operation of the supplemental restraint system sensing components or side air bags.

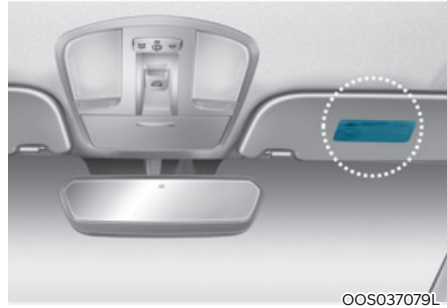
Do not place items under the front seats. Placing items under the front seats could interfere with the operation of the supplemental restraint system sensing components and wiring harnesses.

Do not cause impact to the doors. Impact to the doors when the 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.

4. Instrument cluster

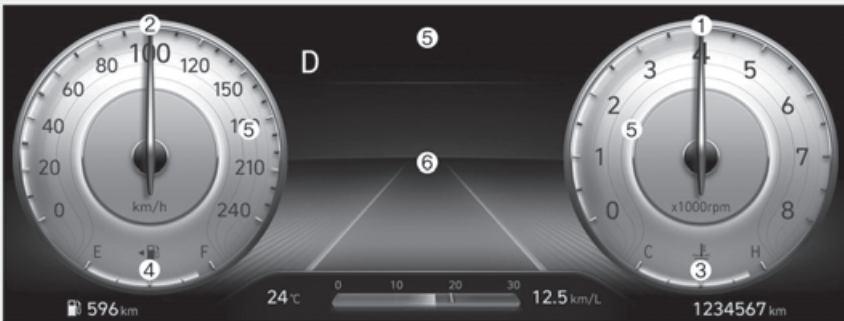
Instrument cluster	4-2
Instrument cluster control	4-3
Instrument panel illumination.....	4-3
Gauges and meters	4-3
Speedometer	4-3
Tachometer	4-4
Engine Coolant Temperature Gauge	4-4
Fuel Gauge	4-5
Outside Temperature Gauge	4-5
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Distance to empty	4-6
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LCD display messages	4-25
LCD display.....	4-31
LCD display control	4-31
View modes	4-32
Trip computer mode	4-33
Turn By Turn (TBT) mode	4-33
Driving Assist mode.....	4-33
Master warning group	4-34
Urea level (Diesel engine).....	4-35
User settings mode	4-36
Trip computer (Type A).....	4-44
Trip modes.....	4-44
Trip computer (Type B).....	4-46
Trip modes.....	4-46

INSTRUMENT CLUSTER

■ Conventional cluster (Type A)



■ Full LCD cluster (Type B)



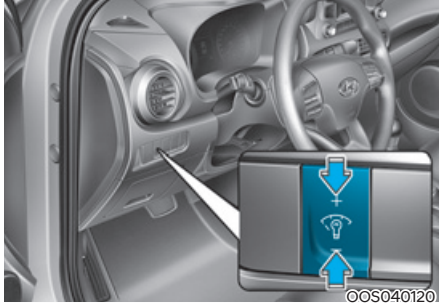
**The actual cluster in the vehicle may differ from the illustration.
For more details, refer to the “Gauges and Meters” in this chapter.**

OOS040015L/ONX4040002

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

Instrument cluster control

Instrument panel illumination

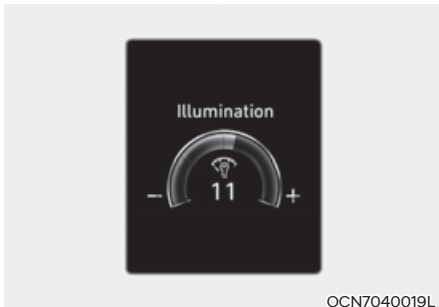


When the vehicle's position lights or headlamps are on, press the illumination control button to adjust the brightness of the instrument panel illumination.

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

WARNING

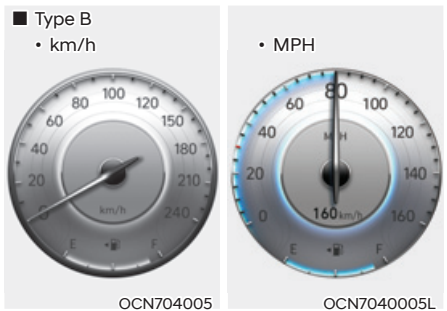
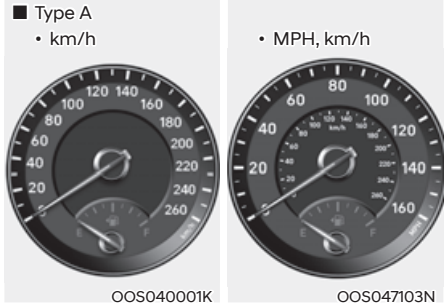
Never adjust the instrument cluster while driving. This could result in loss of control and lead to an accident that may cause death, serious injury, or vehicle damage.



- 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).

Tachometer

■ Type A

• Gasoline engine



OOS047104L

• Diesel engine



OOS047105L

■ Type B

• Gasoline engine



OCN704007

• Diesel engine



ONX4040006

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.

NOTICE

Do not operate the engine within the tachometer's RED ZONE. This may cause severe engine damage.

Engine Coolant Temperature Gauge

■ Type A

• Except Europe



OOS047106

• For Europe



OOS047106L

■ Type B

• Except Europe



OCN704009

• For Europe



OCN7040009L

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 or H" 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 4.



WARNING

Never remove the radiator 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



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

i Information

- The fuel tank capacity is given in chapter 2.
- 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

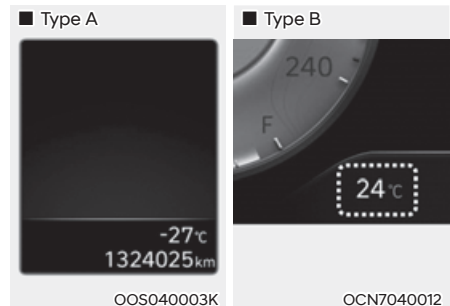
Running out of fuel can expose vehicle occupants to danger.

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 or E(Empty)” level.

NOTICE

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

Outside Temperature Gauge



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

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

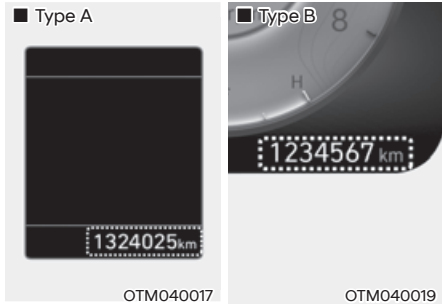
The outside temperature on the display may not immediately change like a general thermometer not to distract the driver.

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 : While pressing the OFF button, press the AUTO button for 3 seconds or more.

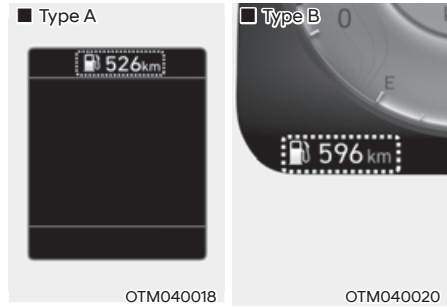
The temperature unit of the instrument cluster and climate control system will change at once.

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



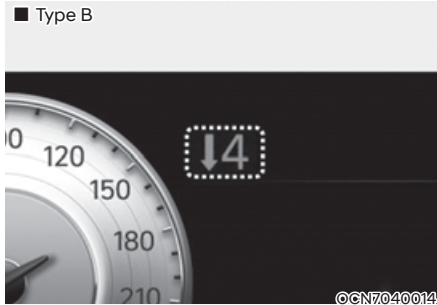
- The distance to empty is the estimated distance the vehicle can be driven with the remaining fuel.
- If the estimated distance is below 1 km (1 mi.), the trip computer will display “---” as distance to empty.

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 liters (1.6 gallons) 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 / Intelligent transmission shift indicator (if equipped)



This indicator informs which gear is recommended while driving, to save fuel.

- Shifting up : ▲2, ▲3, ▲4, ▲5, ▲6
- Shifting down : ▼1, ▼2, ▼3, ▼4, ▼5

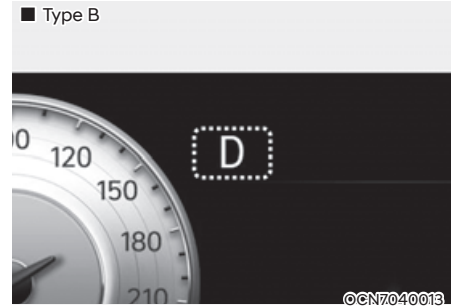
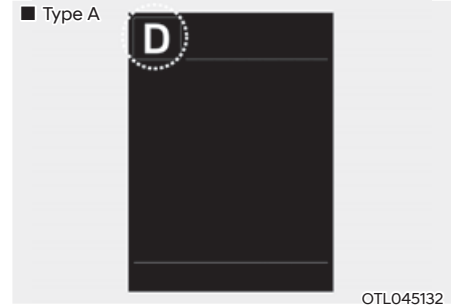
For example

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

↓3: 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.

Intelligent variable transmission (if equipped)



This indicator displays which shift lever position is selected.

- Park : P
- Reverse : R
- Neutral : N
- Drive : D
- Manual shift mode : 1, 2, 3, 4, 5, 6

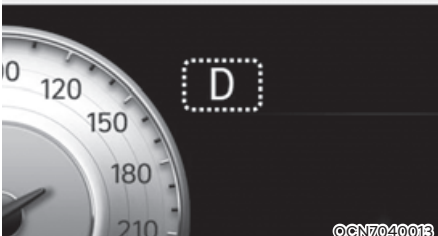
Dual clutch transmission shift indicator (if equipped)

■ Type A



OTL045132

■ Type B



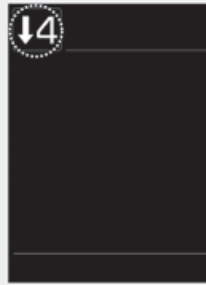
©CN7040013

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

Dual clutch transmission shift indicator (for Europe, if equipped)

■ Type A



OPDE046142

■ Type B



©CN7040014

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

- Dual clutch transmission shift indicator
 - Shifting up : ▲2, ▲3, ▲4, ▲5, ▲6, ▲7
 - Shifting down : ▼1, ▼2, ▼3, ▼4, ▼5, ▼6

For example

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

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

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

Warning and indicator lights

i 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 an authorized HYUNDAI dealer.

Seat Belt Warning Light



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

For more details, refer to “Seat Belts” in chapter 3.

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 9**). After adding brake fluid, check all brake components for fluid leaks. If a brake fluid leak is found, or if the warning light remains on, or if the brakes do not operate properly, do not drive the vehicle. We recommend that you have the vehicle inspected by an authorized HYUNDAI dealer.

Dual-diagonal braking system

Your vehicle is equipped with dual-diagonal braking 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 while 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 an authorized HYUNDAI dealer.

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 an authorized HYUNDAI dealer.

Electronic Brake Force Distribution (EBD) System Warning Light



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

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

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



WARNING

Electronic Brake Force Distribution (EBD) System Warning Light

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

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

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

i 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 an authorized HYUNDAI dealer as soon as possible.

Electronic Parking Brake (EPB) warning light (if equipped)

EPB

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 EPB.

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

i Information

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

AUTO HOLD Indicator Light (if equipped)

AUTO HOLD

This indicator light illuminates:

- [White] When you activate the auto hold system by pressing the AUTO HOLD button.
- [Green] When you stop the vehicle completely by depressing the brake pedal with the auto hold system activated.
- [Yellow] When there is a malfunction with the auto hold system.
- In this case, we recommend that you have the vehicle inspected by an authorized HYUNDAI dealer.

For more details, refer to “Auto Hold” in chapter 6.

Electric Power Steering (EPS) 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 Electric Power Steering System.

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

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 an authorized HYUNDAI dealer.

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

- Gasoline 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 an authorized HYUNDAI dealer as soon as possible.

NOTICE

- Diesel Engine

If the Malfunction Indicator Lamp (MIL) blinks, an error related to the engine control system may have occurred which could result in loss of engine power, combustion noise and poor emission.

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

NOTICE

If the oil pressure lowers due to insufficient engine oil, etc., the engine oil pressure warning light turns on and an enhanced engine protection system that limits the engine's power is activated. After that, engine warning light turns on if driving repeatedly and continuously.

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 an authorized HYUNDAI dealer 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 9**). 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 an authorized HYUNDAI dealer as soon as possible.

3. Driving with the warning light on may cause engine failure.

- * When oil pressure is restored to an optimal level, the oil pressure warning light and the protection system that limits engine power will turn off. Even if the oil pressure returns to normal, check the engine once again in a safe place.

NOTICE

- **If the engine does not stop immediately after the Engine Oil Pressure Warning Light is illuminated, severe damage could result.**
- **If the warning light stays on while the engine is running, it indicates that there may be serious engine damage or malfunction. In this case:**
 1. **Stop the vehicle as soon as it is safe to do so.**
 2. **Turn off the engine and check the oil level. If the oil level is low, fill the engine oil to the proper level.**
 3. **Start the engine again. If the warning light stays on after the engine is started, turn the engine off immediately. In this case, we recommend that you have the vehicle inspected by an authorized HYUNDAI dealer.**

Engine Oil Level Warning Light (if equipped)



The engine oil level warning light illuminates when the engine oil level should be checked.

If the warning light comes on, check the engine oil level as soon as possible and add engine oil as required.

Slowly pour the recommended oil little by little into a funnel. (Oil refill capacity : approximately 0.6 ~ 1.0 ℓ)

Use only the specified engine oil. (Refer to "Recommended Lubricants and capacities" in chapter 2.)

Do not overfill the engine oil. Make sure the oil level is not above F (Full) mark on the dipstick.

i Information

- If you travel approximately 50 km ~100 km after the engine warms up, after adding the engine oil, the warning light will go off.
- Cycle the ignition from OFF to ON 3 times within 10 seconds, the warning light will go off immediately. However, when you turn off the warning light without adding the engine oil, the light will come on again after traveling approximately 50 ~ 100 km after the engine warms up.

NOTICE

If the light comes on continuously after adding the engine oil and travelling approximately 50~100 km after the engine warms up, we recommend that the system be checked by an authorized HYUNDAI dealer.

Even if this light doesn't come on after the engine has started, the engine oil level should be periodically checked and topped up if required.

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).

Overspeed Warning Light (if equipped)

120
km/h

This warning light blinks:

- When you drive the vehicle more than 120 km/h.
 - This is to prevent you from driving your vehicle with overspeed.
 - The overspeed warning chime also sound for approximately 5 seconds.

Master Warning Light



This indicator light illuminates:

- When there is a malfunction in the below systems.
 - Forward Collision-Avoidance Assist malfunction (if equipped)
 - Forward Collision-Avoidance Assist radar blocked (if equipped)
 - Blind-Spot Collision Warning malfunction (if equipped)
 - Blind-Spot Collision Warning radar blocked (if equipped)
 - LED headlamp malfunction (if equipped)
 - High Beam Assist malfunction (if equipped)
 - Smart Cruise Control with Stop & Go malfunction (if equipped)
 - Smart Cruise Control with Stop & Go radar blocked (if equipped)
 - Tire Pressure Monitoring System (TPMS) malfunction

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

Low Tire 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 tires are significantly underinflated (The location of the underinflated tires are displayed on the LCD display).

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

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 an authorized HYUNDAI dealer as soon as possible.

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



WARNING

Safe Stopping

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

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



This warning light illuminates:

- When accumulated soot reaches a certain amount.
- When this warning light illuminates, it may turn off after driving the vehicle under the following conditions:
 - At more than 80 km/h (50 mph) for about 30 minutes (above 3rd gear with 1500 ~ 4000 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 an authorized HYUNDAI dealer.

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.

**Exhaust System (DPF)
Warning Light
(for diesel engine,
if equipped)**



This warning light illuminates:

- When there is a malfunction with the Diesel Particulate Filter (DPF) system. When this warning light illuminates, it may turn off after driving the vehicle:
 - At more than 60 km/h (37 mph), for about 25 minutes (above 2nd gear with 1500 ~ 2500 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 DPF system checked by an authorized HYUNDAI dealer.

NOTICE

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

Fuel Filter Warning Light (for diesel engine)



This warning light illuminates:

- When water has accumulated inside the fuel filter.

In this case, remove the water from the fuel filter.

For more details, refer to “Fuel Filter” in chapter 9.

NOTICE

- **When the Fuel Filter Warning Light illuminates, engine power (vehicle speed & idle speed) may decrease.**
- **If you keep driving with the warning light on, engine parts (injector, common rail, high pressure fuel pump) may be damaged. If this occurs, we recommend that you have the vehicle inspected by an authorized HYUNDAI dealer as soon as possible.**

Glow Indicator Light (for diesel engine)



This indicator light illuminates:

- When the engine is being preheated with the ignition switch or Engine Start/Stop button in the ON position.
 - The engine can be started after the glow indicator light goes off.
 - The illumination time varies depending on the with the engine coolant temperature, air temperature, and battery condition.

If the indicator light remains on or blinks after the engine has warmed up or while driving, there may be a malfunction with the engine preheating system.

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

***i* Information**

If the engine does not start within 10 seconds after the preheating is completed, set the ignition switch or Engine Start/Stop Button to the LOCK or OFF position for 10 seconds and then to the ON position in order to preheat the engine again.

**SCR warning light
(Diesel Engine, if equipped)**



This warning light illuminates:

- When the urea solution tank is nearly empty.
 - If the urea solution tank is nearly empty:
- Refill urea solution as soon as possible.

For more details, refer to “Low urea solution warning message” in the chapter 9.

**4 Wheel Drive (4WD)
Warning Light (if equipped)**



This warning light illuminates:

- Once 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 the 4WD system.

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

**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 an authorized HYUNDAI dealer.

This indicator light blinks:

- While the ESC is operating.

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

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 6.

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 6.

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.

Immobilizer Indicator Light (without smart key) (if equipped)



This indicator light illuminates:

- When the vehicle detects the immobilizer 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 immobilizer system.
In this case, we recommend that you have the vehicle inspected by an authorized HYUNDAI dealer.

Immobilizer Indicator Light (with smart key) (if equipped)



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 an authorized HYUNDAI dealer.

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 6).**
- When there is a malfunction with the immobilizer system.

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

Turn Signal Indicator Light



This indicator light blinks:

- When you operate the turn 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 an authorized HYUNDAI dealer.

Low Beam Indicator Light (if equipped)



This indicator light illuminates:

- When the headlamps are on.

High Beam Indicator Light (if equipped)



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.
- If your vehicle detects oncoming or preceding vehicles, High Beam Assist (HBA) will switch the high beam to low beam automatically.

For more details, refer to “High Beam Assist (HBA)” in this chapter 5.

Light ON Indicator Light



This indicator light illuminates:

- When the tail lights or headlamps are on.

Front Fog Indicator Light (if equipped)



This indicator light illuminates:

- When the front fog lights are on.

Rear Fog Indicator Light



This indicator light illuminates:

- When the rear fog lights are on.

LED Headlamp Warning Light (if equipped)



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 authorized HYUNDAI dealer.

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 authorized HYUNDAI dealer.

NOTICE

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

4 Wheel Drive (4WD) LOCK Indicator Light (if equipped)



This indicator light illuminates:

- Once 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 you select 4WD Lock mode by pressing the 4WD LOCK button.
 - The 4WD LOCK mode is to increase the drive power when driving on wet pavement, snow covered roads and/or off-road.

NOTICE

Do not use 4WD LOCK mode on dry paved roads or highway, it can cause noise, vibration or damage of 4WD related parts.

Cruise Indicator Light (if equipped)



This indicator light illuminates:

- When the cruise control system is enabled.

For more details, refer to “Cruise Control System” in chapter 7.

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 7.

Speed Limiter Indicator Light (if equipped)



This indicator light illuminates when:

- When the speed limiter is enabled.

For more details, refer to “Speed Limit Control System” in chapter 7.

Downhill Brake Control (DBC) Indicator Light (if equipped)



This warning light illuminates:

- Once 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 you activate the DBC system by pressing the DBC button.

This warning light blinks:

- When the DBC is operating.

This warning light illuminates yellow:

- When there is a malfunction with the DBC system.

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

For more details, refer to “Downhill Brake Control (DBC) System” in chapter 6.

SPORT Mode Indicator Light (if equipped)

SPORT

This indicator light illuminates:

- When you select “SPORT” mode as drive mode.

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

ECO Mode Indicator Light (if equipped)

ECO

This indicator light illuminates:

- When you select “ECO” mode as drive mode.

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

Forward Safety 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 the FCA.

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

For more information, refer to “Forward Collision-Avoidance Assist (FCA) system” in chapter 7.

Lane Safety indicator light (if equipped)



This indicator light illuminates:

- [Green] When the function operating conditions are satisfied.
- [White] The function 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 an authorized HYUNDAI dealer.

For more details, refer to “Lane Keeping Assist (LKA)” in chapter 7.

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.

Information

If the icy road warning light appears while driving, you should drive more attentively and safely, refraining from over-speeding, rapid acceleration, sudden braking or sharp turning, etc.

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 while changing the Engine Start/Stop button to the OFF position.

Press START button while 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 while turning the steering wheel right and left.

Steering wheel not locked (for smart key system)

This warning message is displayed if the steering wheel is not locked while 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 while 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 open or close door in the ACC position or ON position. The warning sound is heard when you close door without a smart key in vehicle.

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 while the warning message “Key not detected” is displayed.

At this time, the immobilizer 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 an authorized HYUNDAI dealer.

**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.

 **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, Hood, Tailgate open

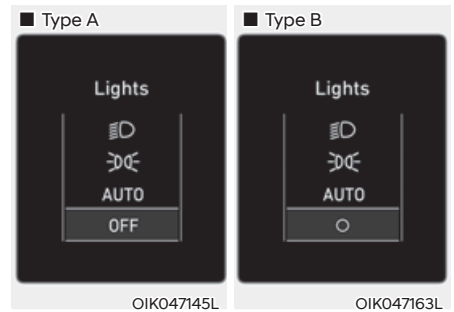
This warning is displayed indicating which door, or hood, or tailgate is open.

**CAUTION**

Before driving the vehicle, you should confirm that the door/ hood/tailgate is fully closed. Also, check there is no door/ hood/tailgate open warning light or message displayed on the instrument cluster.

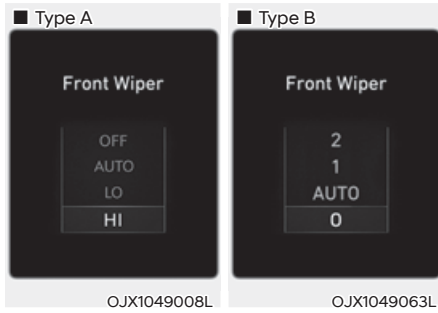
Sunroof open (if equipped)

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.

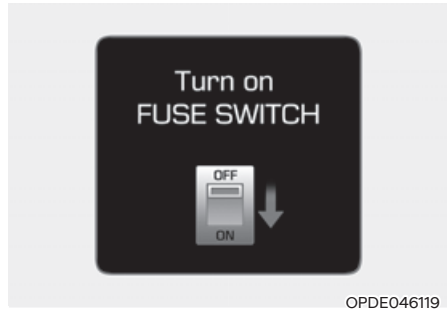
Low Pressure (if equipped)



This warning message is displayed if the tire pressure is low. The corresponding tire on the vehicle will be illuminated.

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

Turn on FUSE SWITCH



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 9.

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 chapter 5.

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 fueling station and refuel as soon as possible.

Engine overheated/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 “If the engine overheats” in chapter 8.

Check exhaust system (if equipped)

This warning message illuminates if the DPF or GPF system has a malfunction. At this time, DPF or GPF warning light also blinks.

In this case, we recommend that you have the DPF or GPF system checked by an authorized HYUNDAI dealer.

DPF : Diesel Particulate Filter

GPF : Gasoline Particulate Filter

For more details, refer to “Warning lights” in this chapter.

Low urea (for diesel engine)

This warning message illuminates if the urea solution level in the urea solution tank is nearly empty.

- When the SCR warning light is illuminates.

Refill urea solution as soon as possible.

For more details, refer to “Low urea solution warning message” in the chapter 9.

Check urea system (for diesel engine)

This warning message illuminates if the urea system has a malfunction.

In this case, we recommend that you have the urea system checked by an authorized HYUNDAI dealer.

For more details, refer to “Low urea solution warning message” in the chapter 9.

Check headlight (if equipped)

This warning message is displayed if the headlamps are not operating properly. A headlamp bulb may need to be replaced.

 Information

Make sure to replace the burned out bulb with a new one of the same wattage rating.

Check High Beam Assist (HBA) 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 an authorized HYUNDAI dealer.

For more information, refer to “High Beam Assist (HBA)” in chapter 5.

Check forward safety system (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 an authorized HYUNDAI dealer.

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

Check Driver Attention Warning (DAW) system (if equipped)

This warning message is displayed if there is a problem with the Driver Attention Warning (DAW).

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

For more information, refer to “Driver Attention Warning (DAW)” in chapter 7.

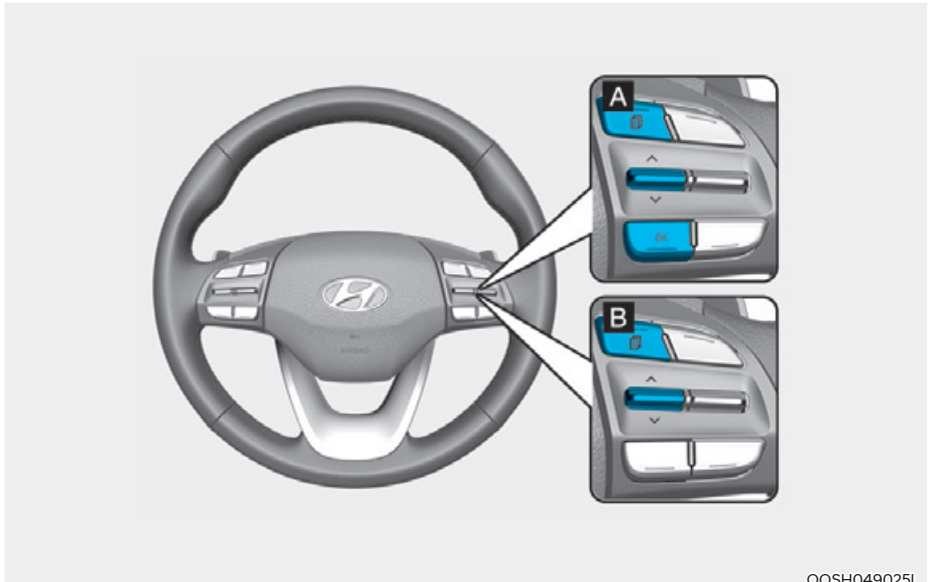
Check Lane Keeping Assist (LKA) system (if equipped)

This warning message is displayed if there is a problem with Lane Keeping Assist (LKA). We recommend that you have the vehicle inspected by an authorized HYUNDAI dealer.

For more information, refer to “Lane Keeping Assist (LKA)” in chapter 7.



LCD DISPLAY

LCD display control








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

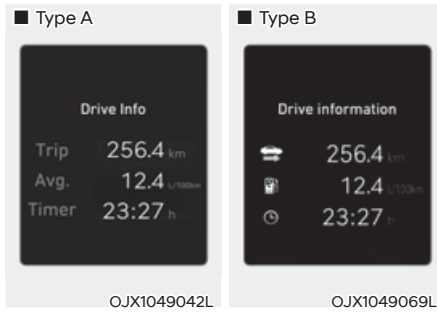
Switch	Function
	MODE button for changing modes
	MOVE switch for changing items
OK	SELECT/RESET button for setting or resetting the selected item

View modes

View modes	Symbol	Explanation
Driving Assist		<p>This mode displays the state of :</p> <ul style="list-style-type: none"> - Smart Cruise Control (SCC) - Highway Driving Assist (HDA) - Lane Keeping Assist (LKA) - Driver Attention Warning (DAW) - Driving force distribution (4WD) <p>For more information, refer to "Smart Cruise Control (SCC)", "Highway Driving Assist (HDA)", "Lane Keeping Assist (LKA)", "Driver Attention Warning (DAW)" in chapter 7 and "4 Wheel Drive (4WD)" in chapter 6.</p>
Trip Computer		<p>This mode displays driving information such as the tripmeter, fuel economy, etc.</p> <p>For more details, refer to "Trip Computer" in this chapter.</p>
Turn By Turn (TBT)		This mode displays the state of the navigation.
User Settings		In this mode, you can change settings of the doors, lamps, etc.
Warning		<p>This mode displays warning messages related to the broken lamps, etc.</p> <p>This mode displays information related to the tire pressure (TPMS), the state of driving force distribution and the amount of remaining urea solution.</p>

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

Trip computer mode



The trip computer mode displays information related to vehicle driving parameters including fuel economy, tripmeter information and vehicle speed.

For more information, refer to "Trip Computer" in this chapter.

Turn By Turn (TBT) mode



Turn-by-turn navigation, distance/time to destination information is displayed when Turn by Turn view is selected.

Driving Assist mode



SCC/HDA/LKA

This mode displays the state of the Smart Cruise Control, Highway Driving Assist and Lane Keeping Assist.

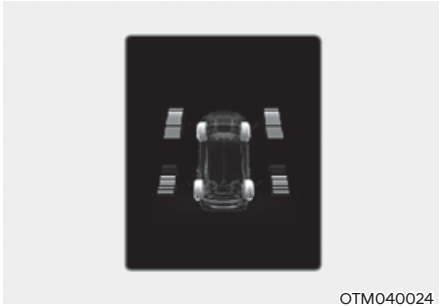
For more details, refer to each function information in chapter 7.



Driver Attention Warning

This mode displays the state of Driver Attention Warning.

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



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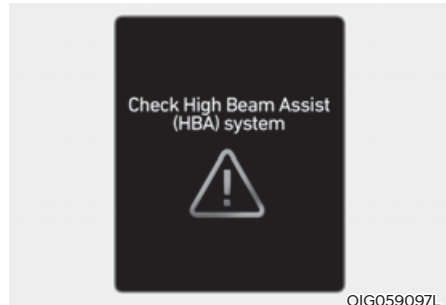
Driving force distribution (4WD)

This mode displays information related to 4WD driving force.

If the vehicle is in 4WD lock state, this mode is not displayed.

For detailed information, refer to the "Four Wheel Drive" in the chapter 6.

Master warning group



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This warning light informs the driver the following situations.

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

The Master Warning Light illuminates if one or more of the above warning situations occur.

At this time, a Master Warning icon (⚠) will appear beside the User Settings icon (⚙), on the LCD display.

If the warning situation is solved, the master warning light will be turned off and the Master Warning icon will disappear.



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Tire Pressure

This mode displays information related to Tire Pressure.

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

Urea level (Diesel engine)



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This mode displays the approximate amount of remaining urea solution inside the urea solution tank.

Add the urea before the level indicates [E] or [O].

For more details, refer to "Selective Catalytic Reduction (SCR)" in chapter 9.

User settings mode



In this mode, you can change the settings of the instrument cluster, doors, lamps, etc.

1. Driver Assistance
2. Head-Up Display
3. Cluster
4. Lights
5. Door
6. Convenience
7. Units

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

Shift to P to edit settings

This warning message illuminates if you try to select an item from the User Settings mode while driving.

- Intelligent variable transmission / Dual clutch transmission.

For your safety, change the User Settings after parking the vehicle, applying the parking brake and selecting the shift button to P(Park).

Quick guide (Help)

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.

Information

When the infotainment system is applied, only the User's Setting mode on the infotainment system is supported but the User's Setting mode on the instrument cluster is not supported.

1. Driver Assistance

Items	Explanation
SCC Reaction	To adjust the sensitivity of Smart Cruise Control. <ul style="list-style-type: none"> • Fast/Normal/Slow For more details, refer to "Smart Cruise Control (SCC)" in chapter 7.
Driving Convenience	<ul style="list-style-type: none"> • Highway Driving Assist To activate or deactivate the Highway Driving Assist. For more details, refer to the "Highway Driving Assist (HDA)" in chapter 7. <ul style="list-style-type: none"> • Auto Highway Speed Control To activate or deactivate the Auto Highway Speed Control. For more details, refer to the "Navigation-based Smart Cruise Control (NSCC)" in chapter 7. <ul style="list-style-type: none"> • Speed Limit Warning To activate or deactivate the Speed Limit Warning. For more details, refer to the "Speed Limit Assist" in chapter 7.
Warning Timing	To adjust the warning timing of the driver assistance system. <ul style="list-style-type: none"> • Normal / Late
Warning Volume	To adjust the warning volume of the driver assistance system. <ul style="list-style-type: none"> • High / Medium / Low
Driver Attention Warning	<ul style="list-style-type: none"> • Leading Vehicle Departure Alert To activate or deactivate the Leading vehicle departure alert. For more details, refer to the "Leading vehicle departure alert" in chapter 7. <ul style="list-style-type: none"> • Forward Attention warning To alert the driver's inattentive driving. For more details, refer to the "Driver Attention Warning (DAW)" in chapter 7. <ul style="list-style-type: none"> • Inattentive Driving Warning To alert the driver's inattentive driving. For more details, refer to the "Driver Attention Warning (DAW)" in chapter 7.
Forward safety	To adjust the Forward Collision-Avoidance Assist (FCA) <ul style="list-style-type: none"> • Active Assist • Warning Only • Off For more details, refer to the "Forward Collision-Avoidance Assist (FCA)" in chapter 7.

Items	Explanation
Lane Safety	<p>To adjust the Lane Keeping Assist (LKA) function.</p> <ul style="list-style-type: none"> • Assist • Warning Only • Off <p>For more details, refer to the "Lane Keeping Assist (LKA)" in chapter 7.</p>
Blind-spot Safety	<ul style="list-style-type: none"> • Safe Exit Warning (SEW) <p>To activate or deactivate the Safe Exit Warning</p> <p>For more details, refer to the "Safe Exit Warning (SEW)" in chapter 7.</p> <ul style="list-style-type: none"> • Active Assist • Warning Only • Off
Parking Safety	<ul style="list-style-type: none"> • Parking Distance Warning Auto On <p>To activate or deactivate the Parking Distance Warning Auto On.</p> <p>For more details, refer to the "Forward/Reverse Parking Distance Warning (PDW)" in chapter 7.</p> <ul style="list-style-type: none"> • Rear Cross-Traffic Safety <p>To activate or deactivate the Rear Cross-Traffic Safety.</p> <p>For more details, refer to the "Rear Cross-Traffic Collision-Avoidance Assist (RCCA)" in chapter 7.</p>

2. Head-Up Display (if equipped)

Items	Explanation
Enable Head-up display	If this item is checked, Head-Up Display will be activated.
Display Height	To adjust the height of the image displayed.
Rotation	To adjust the angle of the image displayed.
Brightness	To adjust the brightness of the image displayed.
Content Selection	To select the content to be displayed.

3. Cluster

Items	Explanation
Reset fuel economy (if equipped)	<ul style="list-style-type: none"> • At vehicle start • After refueling • Manually To reset the fuel economy displayed.
Wiper/Lights Display	To activate or deactivate the Wiper/ Light mode. When activated, the LCD display shows the selected Wiper/Light mode whenever you changed the mode.
Traffic Signs	To set the traffic signs displayed.
Icy Road Warning	To activate or deactivate the icy road warning.
Cluster Voice Guidance Volume	To adjust the cluster voice guidance volume. <ul style="list-style-type: none"> • Level 0 ~ 3
Welcome Sound	To activate or deactivate the welcome sound.
Theme Selection	You can select the theme of the cluster. Link to Drive Mode / Theme A / Theme B / Theme C / CUBE (if equipped)

4. Lights

Items	Explanation
Illumination	To adjust the illumination level. • Level 1–20
One Touch Turn Signal	• Off : The one touch turn signal function will be deactivated. • 3, 5, 7 Flashes : The turn signal indicator will blink 3, 5, or 7 times when the turn signal lever is moved slightly. For more details, refer to "Lighting" in chapter 5.
Headlight Delay	To activate or deactivate the headlamp delay function. For more details, refer to "Lighting" in chapter 5.
Footwell Light	To activate or deactivate the Footwell Light function.
Travel Mode	To activate or deactivate the traffic change function. For more details, refer to "Lighting" in chapter 5.
High Beam Assist	To activate or deactivate High Beam Assist. For more details, refer to "High Beam Assist (HBA)" in chapter 5.

5. Door

Items	Explanation
Automatically Lock	• Enable on Shift : All doors will be automatically locked if the shift button is shifted from the P (Park) position to the R (Reverse), N (Neutral), or D (Drive) position. (only when the engine is running.) • Enable on Speed : All doors will be automatically locked when the vehicle speed exceeds 15km/h (9.3mph). • Off : The auto door lock operation will be deactivated.
Automatically Unlock	• On Shift to P: All doors will be automatically unlocked if the shift button is shifted to the P (Park) position. (only when the engine is running.) • On key out/On vehicle off : All doors will be automatically unlocked when the ignition key is removed from the ignition switch or the Engine Start/ Stop button is set to the OFF position. • Off : The auto door unlock operation will be canceled.
Two Press Unlock	• Off: The two press unlock function will be deactivated. Therefore, all doors will unlock if the door unlock button is pressed. • 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.
Horn Feedback	To activate or deactivate the horn feedback. If the horn feedback is activated, after locking the door by pressing the lock button on the remote key, and pressing it again within 4 seconds, the horn feedback sound will operate once to indicate that all doors are locked (if equipped with remote key).

6. Convenience

Items	Explanation
Rear Occupant Alert	To activate or deactivate the Rear Occupant Alert. For more details, refer to "Rear Occupant Alert (ROA) system" in chapter 5.
Welcome Mirror/Light	<ul style="list-style-type: none"> • On door unlock : The outside rearview mirrors are unfolded and the welcome light turns on automatically when the doors are unlocked. • On driver approach : The outside rearview mirrors are unfolded and the welcome light turns on automatically when the vehicle is approached with the smart key. <p>For more details, refer to "Welcome System" in chapter 5."</p>
Wireless Charging System	To activate or deactivate the wireless charging system in the front seat. For more details, refer to "Wireless cellular phone charging system" in chapter 5.
Auto Rear Wiper (in R)	To activate or deactivate the Auto Rear Wiper function. If you move the shift button from D to R when the front wiper operates, the rear wiper will operate automatically. Then, if you move the shift button from R to D, the rear wiper will stop."
Service Interval	<ul style="list-style-type: none"> • Service Interval <p>To activate or deactivate the service interval function.</p> <ul style="list-style-type: none"> • Adjust Interval <p>If the service interval menu is activated, you may adjust the time and distance.</p> <ul style="list-style-type: none"> • Reset <p>To reset the service interval.</p>

7. Units

Items	Explanation
Speed Unit	To select the speed unit. (km/h, MPH)
Temperature Unit	To select the temperature unit. (°C,°F)
Fuel Economy Unit	To select the fuel economy unit. (km/L, L/100km, MPG)
Tire Pressure Unit	To select the tire pressure unit. (psi, kPa, bar)

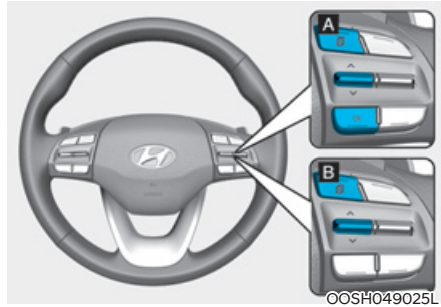
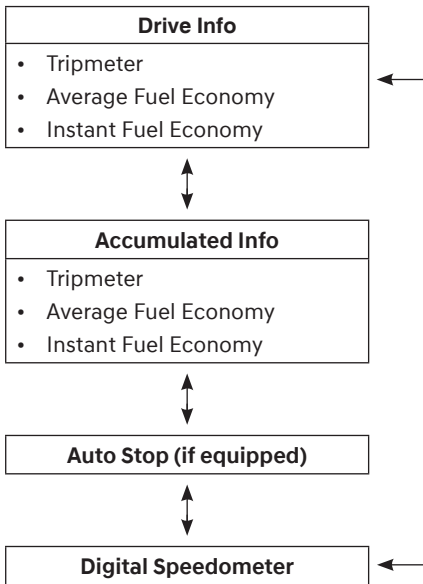
Trip computer (Type A)

The trip computer is a microcomputer-controlled driver information system that displays information related to driving.

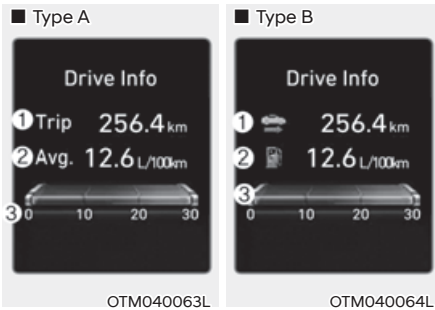
i Information

Some driving information stored in the trip computer (for example Average Vehicle Speed) resets if the battery is disconnected.

Trip modes



To change the trip mode, toggle the " \wedge , \vee " switch on the steering wheel

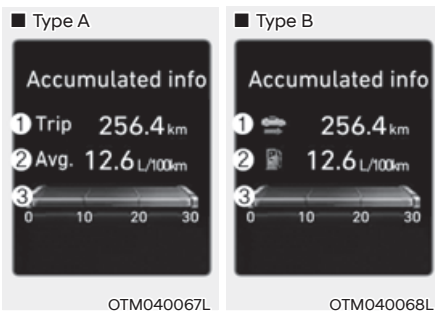


Drive info

Trip distance (1), average fuel economy (2), and instant fuel economy (3) are displayed.

The information is combined for each ignition cycle. However, when the engine has been OFF for 3 minutes or longer the Drive Info screen will reset.

To reset manually, press the OK switch on the steering wheel for more than 1 second when 'Drive Info' is displayed.



Accumulated info

Accumulated trip distance (1), average fuel economy (2), and instant fuel economy (3) are displayed.

The information is accumulated starting from the last reset.

To reset manually, press the OK switch on the steering wheel for more than 1 second when 'Accumulated Info' is displayed.



Auto stop (if equipped)

AUTO STOP display shows the elapsed time of engine stop by Idle Stop and Go system.

For more details, refer to "Idle Stop and Go (ISG)" section in chapter 6.



Digital speedometer

Digital speedometer display shows the speed of the vehicle.

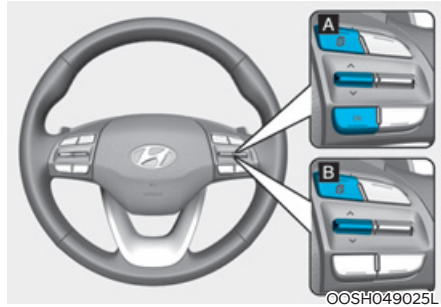
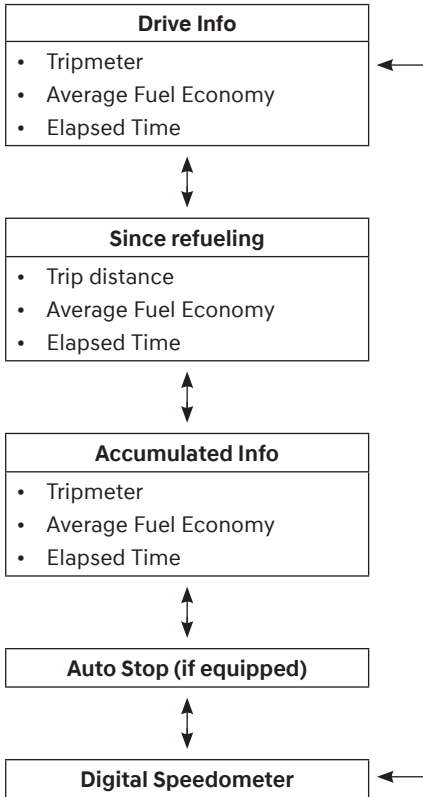
Trip computer (Type B)

The trip computer is a microcomputer-controlled driver information system that displays information related to driving.

i Information

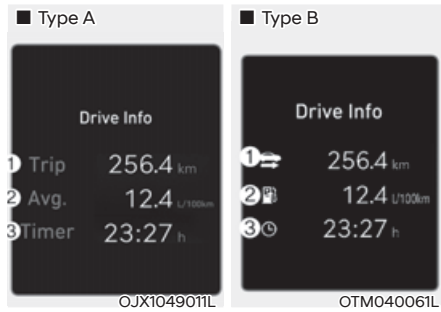
Some driving information stored in the trip computer (for example Average Vehicle Speed) resets if the battery is disconnected.

Trip modes



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To change the trip mode, toggle the "∧, ∨" switch on the steering wheel

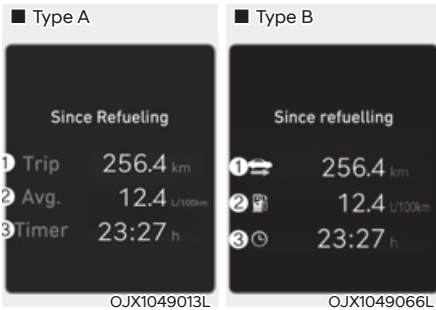


Drive info

Trip distance (1), average fuel economy (2), and total driving time (3) are displayed.

The information is combined for each ignition cycle. However, when the engine has been OFF for 3 minutes or longer the Drive Info screen will reset.

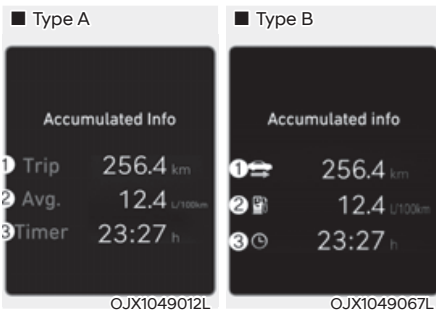
To reset manually, press the OK switch on the steering wheel for more than 1 second when 'Drive Info' is displayed.



Since refuel(l)ing

Trip distance (1), average fuel economy (2), and total driving time (3) after the vehicle has been refueled are displayed.

To reset manually, press the OK switch on the steering wheel for more than 1 second when 'Since Refueling' is displayed.



Accumulated info

Accumulated trip distance (1), average fuel economy (2), and total driving time (3) are displayed.

The information is accumulated starting from the last reset.

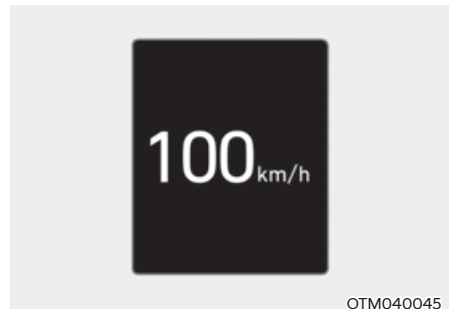
To reset manually, press the OK switch on the steering wheel for more than 1 second when 'Accumulated Info' is displayed.



Auto stop (if equipped)

AUTO STOP display shows the elapsed time of engine stop by Idle Stop and Go system.

For more details, refer to "Idle Stop and Go (ISG)" section in chapter 6.



Digital speedometer

Digital speedometer display shows the speed of the vehicle.

5. Convenience features

Accessing your vehicle	5-5
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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 hood 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.
4. Make sure the doors are locked by checking the position of the door lock button inside the vehicle.

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.

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.

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 while 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 an authorized HYUNDAI dealer.

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 an authorized HYUNDAI dealer.

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)

■ Type A



OPDE046044

■ Type B



OOS050026L

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
4. Remote Start

Locking



To lock :

1. Close all doors, engine hood 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.
4. Make sure the doors are locked by checking the position of the door lock button inside the vehicle.

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.

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.**

Remotely starting vehicle (if equipped)

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

To start the vehicle remotely:

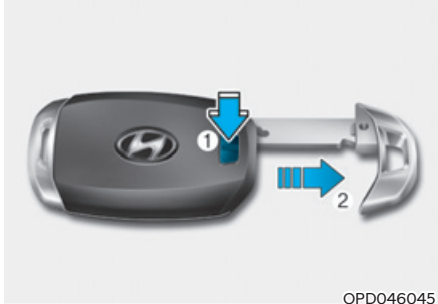
1. Press the door lock button on the smart key within 10 m (32 feet) from the vehicle.
2. Press the Remote Start button for more than 2 seconds within 4 seconds after pressing the door lock button.
3. The hazard warning lights will blink and the engine will start.
4. To turn off the remote start function,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

i Information

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

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 authorized HYUNDAI dealer or tow the vehicle, if necessary.

Smart key precautions

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

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

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

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

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 an authorized HYUNDAI dealer.

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.

Immobilizer system (if equipped)

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

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

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

The system may not recognize your key's coding if another immobilizer key or other metal object (i.e., key chain) is near the key. The engine may not start because the metal may interrupt the transponder signal from transmitting normally.

If the system repeatedly does not recognize the coding of the key, it is recommended that you contact your HYUNDAI dealer.

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



WARNING

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

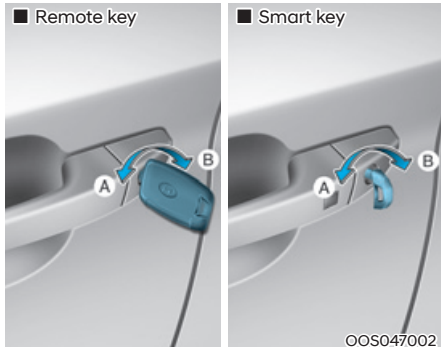
NOTICE

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

DOOR LOCKS

Operating door locks from outside the vehicle

Mechanical key



[A] : Lock, [B] : Unlock

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



OOS047001



OPDE046004

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

To unlock the doors, press the button on the outside door handle while 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.

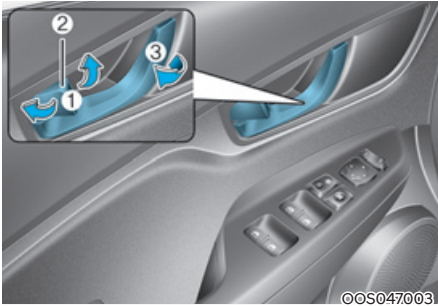
When closing the door, push the door by hand. Make sure that doors are closed securely.

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.

Operating door locks from inside the vehicle

With the door lock button



- To unlock a door, push the door lock button (1) to the “Unlock” position. The red mark (2) on the door lock button will be visible.
- To lock a door, push the door lock button (1) to the “Lock” position. If the door is locked properly, the red mark (2) on the door lock button will not be visible.
- To open a door, pull the door handle (3) outward.
- Front doors cannot be locked if the key is in the ignition switch and any front door is open.
- Doors cannot be locked if the smart key is in the vehicle and any door is open.

i Information

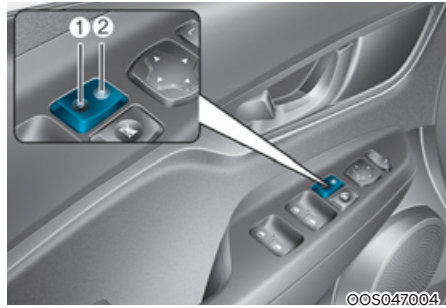
If a power door lock ever fails to function while you are in the vehicle try one or more of the following techniques to exit:

Operate the door unlock feature repeatedly (both electronic and manual) while simultaneously pulling on the door handle.

Operate the other door locks and handles.

Lower a front window and use the mechanical key to unlock the door from outside.

With the central door lock/unlock switch



When pressing the (🔒) portion (2) on the switch, all vehicle doors will lock.

- If any door is opened, the doors will not lock even though the lock button (2) of the central door lock switch is pressed.
- If the smart key is in the vehicle and any door is opened, the doors will not lock even though the lock button (2) of the central door lock switch is pressed.

When pressing the (🔓) portion (1) on the switch, all vehicle doors will unlock.

⚠ WARNING

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

 **WARNING**

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

 **WARNING**

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

To secure your vehicle, while depressing the brake, move the shift lever to the P (Park) position (for dual clutch transmission) or first gear or R (Reverse, for manual transaxle), 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 while the weather is very hot or cold, there are risks of injuries or danger to life. Do not lock the vehicle from the outside when someone is in the vehicle.

Deadlocks (if equipped)

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

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

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 15 km/h (9 mph).

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 small flat blade tool (like a screwdriver or similar) (1) into the slot and turn it to the lock position as shown.

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



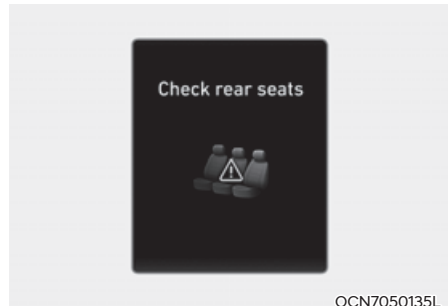
WARNING

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

Rear Occupant Alert (ROA) (if equipped)

This function prevents the driver from leaving a passenger in the rear seats.

If your vehicle is equipped with additional navigation, please refer to the infotainment system manual separately supplied.



NOTICE

When the driver turns off the engine and opens the driver's door after opening and closing a rear door, a warning message "Check rear seats" appears.



WARNING

The rear seat passenger alarm system provides information to the driver to check the rear seats but it does not detect whether there is an object or passenger in the back seats. Please check the rear seats always when leaving the vehicle.



CAUTION

The door open and close history is initialized if the driver turns off the engine and lock the vehicle door. Even though the rear door is not opened again, the alarm may sound if there is the previous record. For example, if the driver does not lock the vehicle door and opens the door to get off after the alarm sounds, the alarm may go off.

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 hood 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 and the chime will sound once to indicate the system is armed.

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

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

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

i Information

- **Do not lock the doors until all passengers have left the vehicle. If the remaining passenger leaves the vehicle when the system is armed, the alarm will be activated.**
- **If the vehicle is not disarmed with the 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**

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 an authorized HYUNDAI dealer.

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. We recommend to contact an authorized HYUNDAI dealer to 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.

Information

The following symptoms may occur during normal vehicle operation:

- The steering effort may be high immediately after placing the ignition switch 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.
- When the battery voltage is low, you might have to put more steering effort. However, it is a temporary condition so that it will return to normal condition after charging the battery.
- A click noise may be heard from the EPS relay after the 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.
- When the vehicle is stationary, if you turn the steering wheel all the way to the left or right continuously, the steering wheel 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

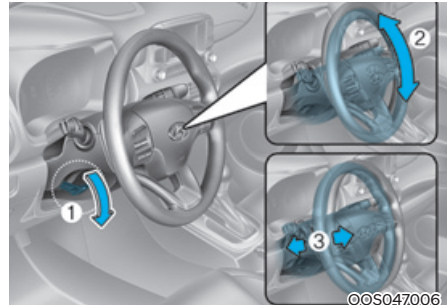
WARNING

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

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.



Pull down the lock-release lever (1) on the steering wheel column and adjust the steering wheel angle (2) and position (3). Move the steering wheel, so it points toward your chest, not toward your face.

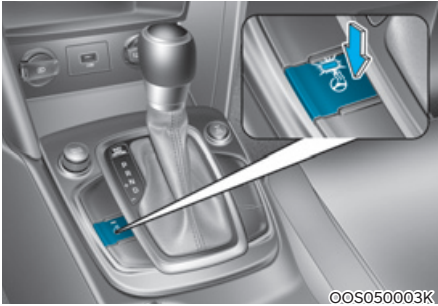
Make sure you can see the instrument panel warning lights and gauges.

After adjusting, pull up the lock-release lever (1) to lock the steering wheel in place. 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.

CAUTION

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

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.

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 center 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 headrests which could interfere with your vision through the rear window.



WARNING

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



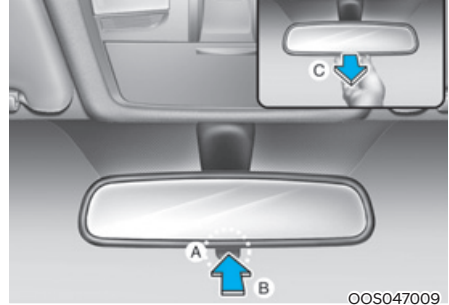
WARNING

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

NOTICE

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

Day/night rearview mirror (if equipped)



OOS047009

[A] : Day/night lever, [B] : Day, [C] : Night

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

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

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

**Electric Chromic Mirror (ECM)
(if equipped)**

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.



OOS047010L

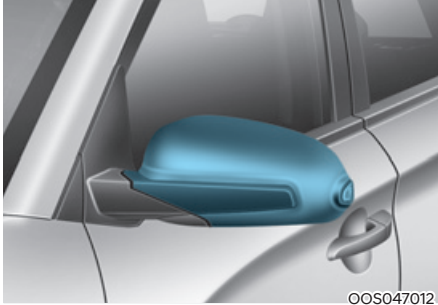
[A] : Indicator

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.

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.

Outside rearview mirror



Be sure to adjust mirror angles before driving.

Your vehicle is equipped with both left-hand and right-hand outside rearview mirrors.

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 right outside rearview mirror is convex. In some countries, the left outside rearview mirror is also 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.**

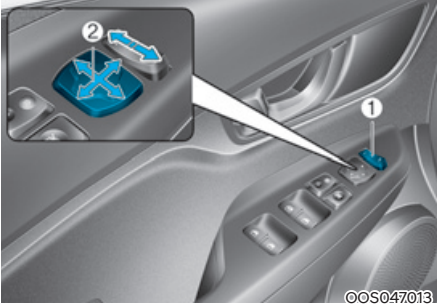
WARNING

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

NOTICE

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

Adjusting the rearview mirrors

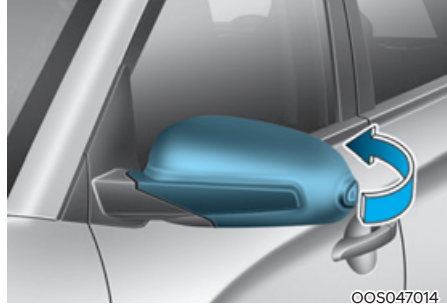


1. Press either the L (left side) or R (right side) button (1) to select the rearview mirror you would like to adjust.
2. Use the mirror adjustment control (2) to position the selected mirror up, down, left or right.
3. After adjustment, put the button into neutral (center) position to prevent inadvertent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

NOTICE

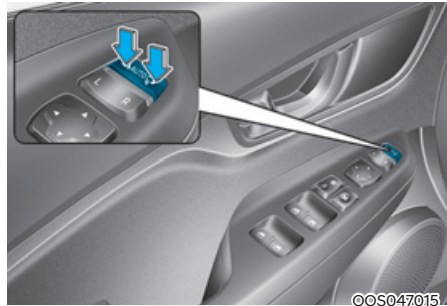
- **The mirrors stop moving when they reach the maximum adjusting angles, but the motor continues to operate while the switch is pressed. Do not press the switch longer than necessary, the motor may be damaged.**
- **Do not attempt to adjust the outside rearview mirror by hand otherwise the motor may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

Right : The mirror will fold.

Center (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 and “Welcome mirror” in the User Setting Mode on the LCD display is activated.

- With smart key system
 - The mirror will fold or unfold when the door is locked or unlocked by the smart key and “Welcome mirror” in the User Setting Mode on the LCD display is activated.
 - The mirror will fold or unfold when the door is locked or unlocked by the button on the outside door handle and “Welcome mirror” in the User Setting Mode on the LCD display is activated.

NOTICE

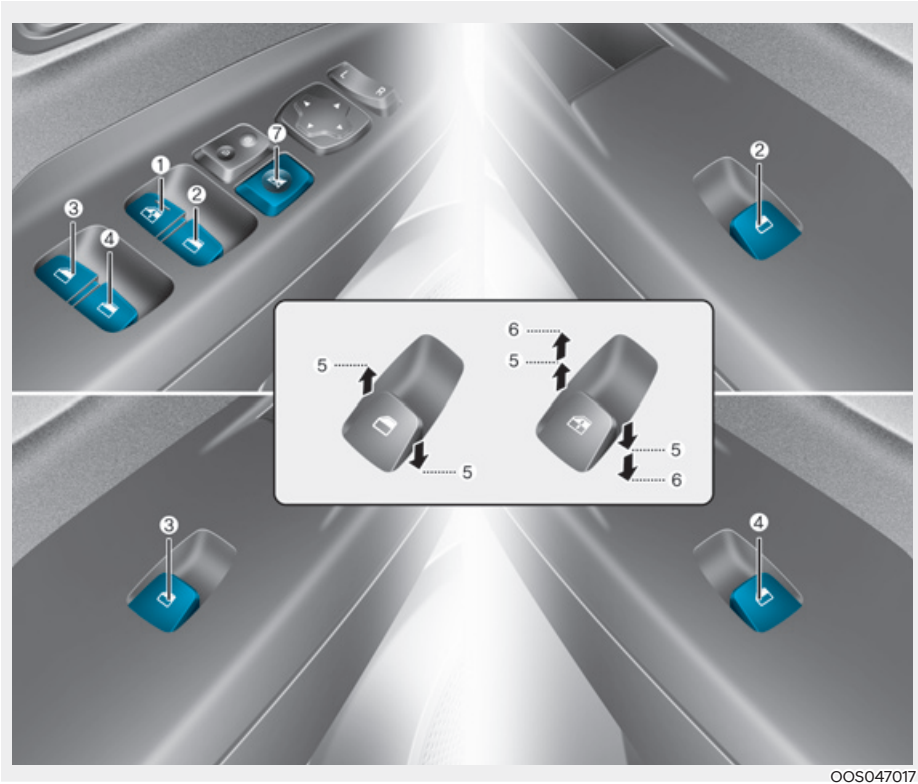
The electric type outside rearview mirror operates even though the ignition switch is in the OFF position. However, to prevent unnecessary battery discharge, do not adjust the mirrors longer than necessary while the engine is not running.

NOTICE

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

WINDOWS

Power windows (if equipped)



OOS047017

- (1) Driver's door power window switch
- (2) Front passenger's door power window switch
- (3) Rear door (left) power window switch*
- (4) Rear door (right) power window switch*

- (5) Window opening and closing
- (6) Automatic power window
- (7) Power window lock switch*

* : if equipped

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 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

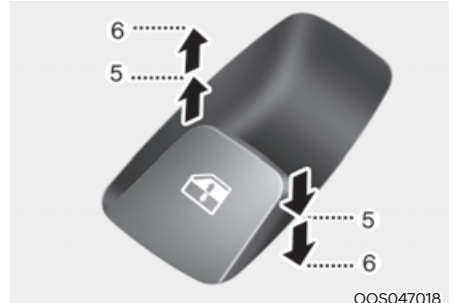
To avoid serious injury or death, do not extend your head, arms or body outside the windows while driving.



Information

- In cold and wet climates, power windows may not work properly due to freezing conditions.
- While driving with the rear windows down or with the sunroof (if equipped) opened (or partially opened), your vehicle may demonstrate a wind buffeting or pulsation noise. This noise is normal and can be reduced or eliminated by taking the following actions. If the noise occurs with one or both of the rear windows down, partially lower both front windows approximately 2.5 cm. 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 down window (if equipped)

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

Auto up/down window (if equipped)

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

To reset the power windows

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

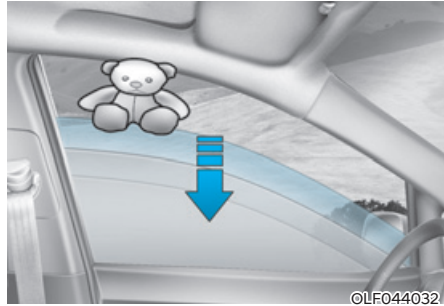
1. Place the ignition switch to the ON position.
2. Close the window and continue pulling up on the power window switch for at least one second.

If the power windows do not operate properly after resetting, it is recommended that the system be checked by an authorized HYUNDAI dealer.

WARNING

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

Automatic reverse (if equipped)



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

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

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.

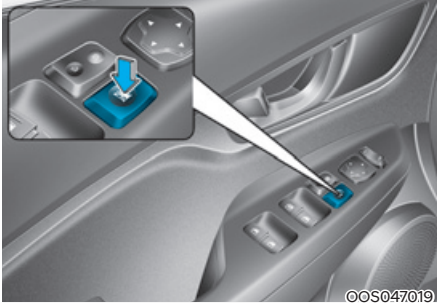
WARNING

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 while driving.

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 3 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 seconds.

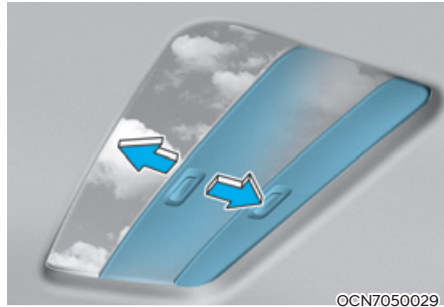
WARNING

- Never adjust the sunroof or sunshade while driving. 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

NOTICE

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

Sunshade



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

Open or close the sunshade by hand.

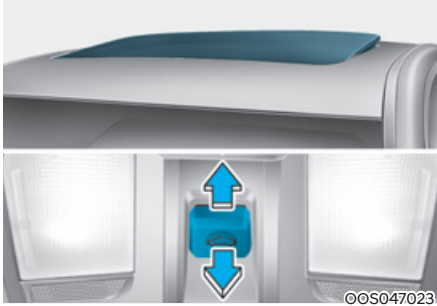
Information

The sunshade opens automatically when the sunroof glass is opened, but the sunshade does not close automatically when the sunroof glass is closed. Also, only the sunshade cannot be closed when the sunroof glass is opened.

NOTICE

Do not pull the sunshade up or down, or apply excessive force as such action may damage the sunshade or cause it to malfunction.

Tilt open/close



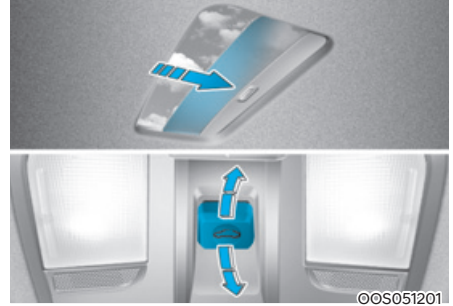
- Push the sunroof switch upward, the sunroof glass tilts open.
- Push the sunroof switch forward, the sunroof glass automatically closes.

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

i Information

The sunroof glass cannot slide open and tilt open at the same time. You cannot tilt the sunroof glass open while the sunroof glass is slide open. Also, you cannot slide the sunroof glass open while the sunroof is tilt open. Slide open or tilt open with the sunroof glass when the sunroof glass is completely closed.

Slide open/close



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

i Information

To reduce wind noise while driving, we recommend that you drive at the recommended position before the maximum slide open position.

Automatic reversal



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

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

WARNING

- **Make sure heads, hands, arms or any other body parts or objects are out of the way before operating the sunroof. Body parts or objects may get caught causing injuries or vehicle damage.**
- **Never deliberately use your body parts to test the automatic reversal function. The sunroof glass may reverse direction, but there is a risk of injury.**

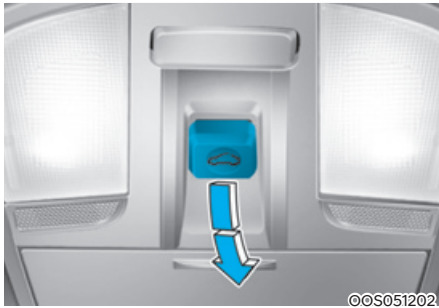
NOTICE

- **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.**
- **Using the sunroof for a long time can make noise caused by dust in accumulated between the sunroof and vehicle body. 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, otherwise the motor could be damaged. In cold and wet climates, the sunroof may not work properly.**
- **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 while driving. Vehicle damage may occur if the vehicle suddenly stops.**

WARNING

Do not extend your head, arms, body parts or objects outside the sunroof while 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 sunroof glass is in the fully closed position. If the sunroof glass is open, push the switch forward until the sunroof glass is fully closed.
3. Release the switch when the sunroof glass is fully closed.
4. Push the switch forward until the sunroof glass moves slightly. Then release the switch.
5. Once again push and hold the sunroof switch forward until the sunroof glass slides open and close. Do not release the switch until the operation is completed.
If you release the switch during operation, start the procedure again from step 2.

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.



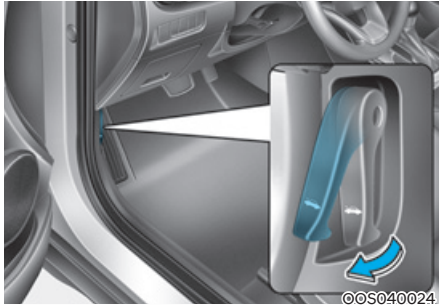
CAUTION

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

Hood

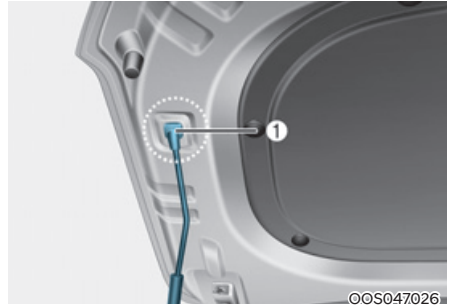
Opening the hood



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



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



5. Hold the hood 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 hood from falling and possibly injuring you.

Closing the hood

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

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

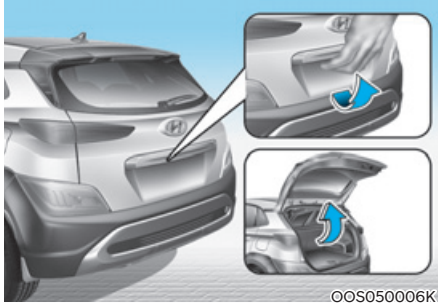


WARNING

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

Tailgate

Opening the tailgate

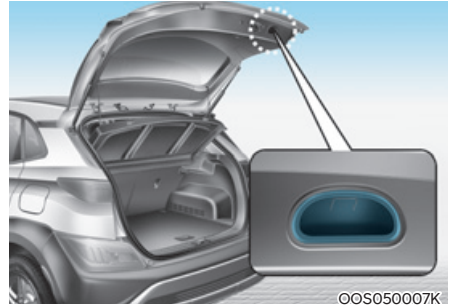


Make sure the vehicle is in P (Park) and set the parking brake.

Then do one of the following:

1. Unlock all doors with the Door Unlock button on your remote key or smart key. Press the tailgate handle button and open the tailgate.
2. Press and hold the Tailgate Unlock button on the remote key or smart key. Press the tailgate handle button and open the tailgate.
3. 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 while the vehicle is in motion. If it is left open or ajar, poisonous exhaust gases containing carbon monoxide (CO) may enter the vehicle and serious illness or death may result.

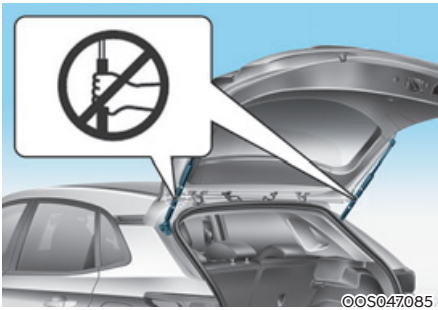
Information

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**

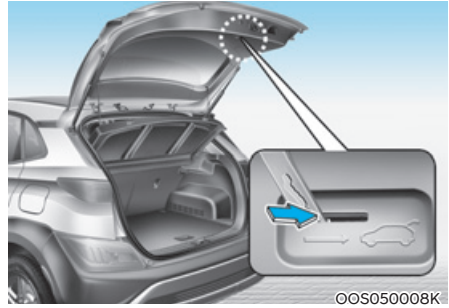


Do not hold the part (gas lifter) that supports the tailgate. Be aware that the deformation of the part may cause vehicle damage and a risk of injury.

 **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.

Emergency tailgate safety release



Your vehicle is equipped with the emergency tailgate safety release lever located on the bottom of the tailgate. When someone is inadvertently locked in the luggage compartment. The tailgate can be opened by doing as follows:

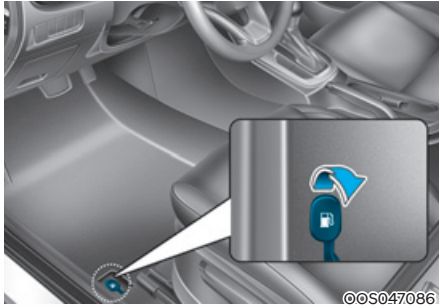
1. Insert the key into the hole.
2. Push the release lever to the right by a key.
3. Push up the tailgate.

 **WARNING**

- For emergencies, be fully aware of the location of the emergency tailgate safety release lever in the vehicle and how to open the tailgate if you are accidentally locked in the luggage compartment.
- No one should be allowed to occupy the luggage compartment of the vehicle at any time. The luggage compartment is a very dangerous location in the event of a crash.
- Use the release lever for emergencies only. Use with extreme caution, especially while the vehicle is in motion.

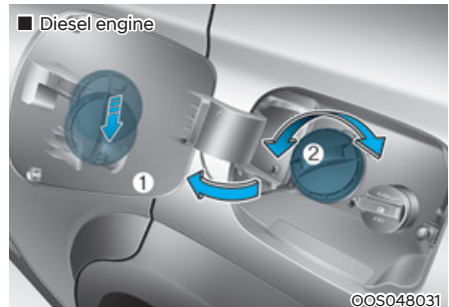
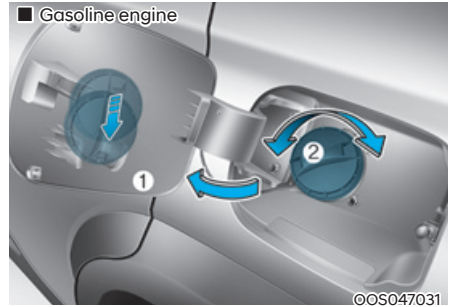
Fuel filler door

Opening the fuel filler door



The fuel filler door must be opened from inside the vehicle by pulling up on the fuel-filler door opener.

1. Turn the engine off.
2. To open the fuel filler door, pull the fuel filler door opener up.



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

i Information

If the fuel filler door does not open because ice has formed around it, tap lightly or push on the door to break the ice and release the door. Do not pry on the door. If necessary, spray around the door with an approved 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 while fueling, unlock it before closing the fuel filler door.

WARNING

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

- Read and follow all warnings posted at the gas station.
- Before refueling, note the location of the Emergency Gasoline Shut-Off, if available, at the gas station.
- Before touching the fuel nozzle, you should eliminate the potential build-up of static electricity by touching a metal part of the vehicle, a safe distance away from the fuel filler neck, nozzle, or other gas source, with your bare hand.
- Do not use cellular phones while refueling. Electric current and/or electronic interference from cellular phones can potentially ignite fuel vapors and cause a fire.
- Do not get back into a vehicle once you have begun refueling. You can generate a build-up of static electricity by touching, rubbing or sliding against any item or fabric capable of producing static electricity.
- Static electricity discharge can ignite fuel vapors causing a fire. If you must re-enter the vehicle, you should once again eliminate potentially dangerous static electricity discharge by touching a metal part of the vehicle, away from the fuel filler neck, nozzle or other gasoline source, with your bare hand.
- When refueling, always move the shift lever to the P (Park) position (for dual clutch transmission) or first gear or R (Reverse, for manual transmission), 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 vapors causing a fire.
- When using an approved portable fuel container, be sure to place the container on the ground prior to refueling. Static electricity discharge from the container can ignite fuel vapors causing a fire. Once refueling has begun, contact between your bare hand and the vehicle should be maintained until the filling is complete.

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

i Information

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

NOTICE

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

HEAD UP DISPLAY (HUD) (IF EQUIPPED)



The head up display is a transparent display which projects a shadow of some information of the instrument cluster and navigation on the display located on the crash pad.

Precautions while using the head up display

It may be difficult to read information on the head up display in the following situations.

- The driver is improperly positioned in the driver's seat.
- The driver wears polarised sunglasses.
- An object is located above the head up display cover.
- The vehicle is driven on a wet road.
- Any improper lighting accessory is installed inside the vehicle, or there is incoming light from outside of the vehicle.
- The driver wears glasses.
- The driver wears contact lenses.

When it is difficult to read the head up display information, adjust the image height of HUD or the head up display brightness level in the User Settings Mode. For more information, refer to "LCD Display" in chapter 4.

WARNING

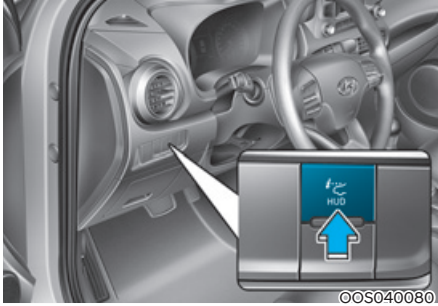
- Do not attach any stickers or accessories on the HUD or crash pad.
- Do not adjust HUD shutter and combiner directly by hands.
- The image may be invisible due to finger prints. Also, excessive force applied during operation may damage the display.
- Do not place any objects near the HUD. Interference with such objects during activation may influence the operation or damage the display.
- Do not put any drinks near the HUD. If liquid flows in the HUD, the display may be damaged.
- Do not place any objects on the HUD. Also, attaching something (sticker, etc.) on the combiner may affect the visibility of the image.
- Do not let strong light shine on the combiner. It may damage the combiner and internal components.
- Do not place any objects on, inside or near the display whether the HUD is opened or closed. Also, do not attach any objects to the system components or insert anything inside the system.
- Use a soft cloth to clean the HUD. Do not use organic solvent, detergent or polishing cloth.
- For your safety, make sure to stop the vehicle before adjusting the settings.

CAUTION

- When you open or close the HUD, noise may occur from the motor and gears.
- When you adjust the image height of the HUD, noise may occur from the motor and gears.

* HUD stands for Head Up Display.

Head Up Display ON/OFF



With the engine ON, you can turn ON/OFF the HUD by pressing the HUD button on the crash pad.

With the engine OFF, the HUD will close automatically when the door is locked by a remote or smart key.

If your vehicle uses a smart key, the HUD will close automatically when the door is locked by pressing the button on the outside door handle.

If the engine is OFF and the door is not locked, the HUD will close automatically after approximately 5 minutes.

Head Up Display Information



OOS050019L

1. Turn By Turn (TBT) navigation information
2. Road signs
3. Speedometer
4. SCC set speed information (if equipped)

5. SCC headway information (if equipped)
6. Lane Following Assist information (if equipped)
7. Lane Safety information (if equipped)
8. Blind-Spot Safety information (if equipped)
9. Highway Driving Assist information (if equipped)
10. Highway Auto Speed Change information (if equipped)

i Information

If you select the Turn By Turn (TBT) navigation information as HUD contents, the Turn By Turn (TBT) navigation information will not be displayed on the LCD Display.

Head Up Display Setting

On the LCD display, you can change the head up display settings as follows.

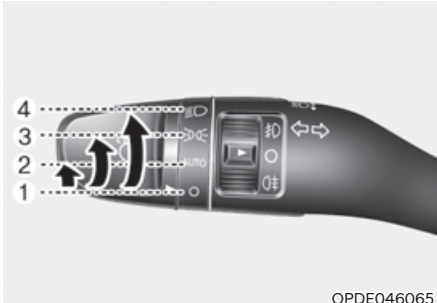
- Display Height
- Rotation
- Brightness
- Content Select

For more details, refer to “LCD Display” in chapter 4.

LIGHTING

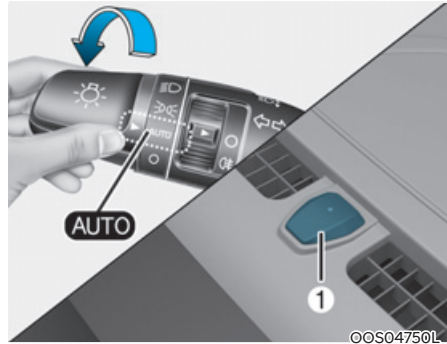
Exterior lights

Lighting control



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

- (1) OFF position
- (2) AUTO light position (if equipped)
- (3) Position lamp position
- (4) Headlamp position



AUTO light position (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 windshield, the AUTO light system may not work properly.



OAE046469L

Position lamp position (D)

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



OAE046467L

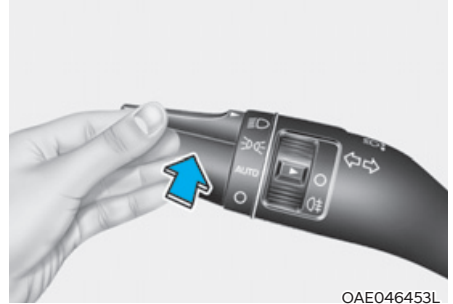
Headlamp position (D)

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

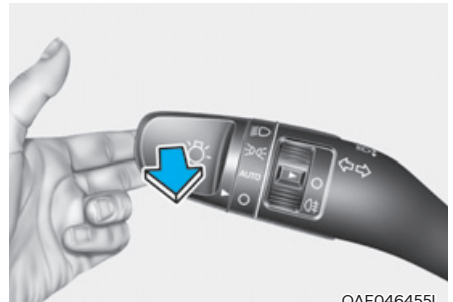
To turn on the high beam headlamp, push the lever away from you. The lever will return to its original position.

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

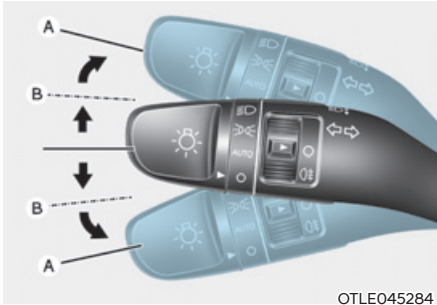
Do not use high beam when there are other vehicles approaching you. Using high beam could obstruct the other driver's vision.



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.

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 chapter 4.

Front fog lamps (if equipped)



Fog lamps are used to provide improved visibility when visibility is poor due to fog, rain or snow, etc.

Use the switch next to the headlamp switch to turn the fog lamps ON and OFF.

1. Turn on the position lamp.
2. Turn the light switch (1) to the front fog lamp position.
3. To turn off the front fog lamp, turn the light switch to the front fog lamp position again or turn off the position lamp.

NOTICE

When in operation, the fog lamps consume large amounts of vehicle electrical power. Only use the fog lamps when visibility is poor.

Rear fog lamp



Vehicle with front fog lamps

To turn on the rear fog lamp:

Position the light switch in the position lamp position, turn the light switch (1) to the front fog lamps 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 position light switch.
- Turn the light switch to the rear fog lamp position again.
- When the light switch is in the position lamp position, if you turn off the front fog lamps, the rear fog lamp will also turn off.



Vehicle without front fog lamps

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 the road at night.

If necessary, to keep the lamps on when the engine is turned off, perform the following:

- (1) Open the driver-side door.
- (2) Turn the position lamps OFF and ON again using the light switch on the steering column.

Headlamp delay function (if equipped)

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 chapter 4.

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 headlamps before getting out of the vehicle.

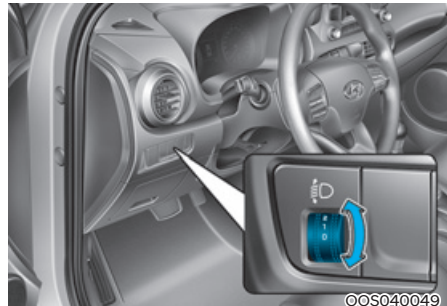
Daytime running light (DRL) (if equipped)

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 lamps 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 leveling 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 leveling switch.

The higher the number on the switch position, the lower the headlamp beam level. Always keep the headlamp beam at the proper leveling position, otherwise headlamps may dazzle other road users.

Listed below are examples of appropriate switch settings for varying loads. For loading conditions other than those listed, adjust the switch position to the most similar situation.

Loading condition	Priority while overlapping
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 an authorized HYUNDAI dealer. Do not attempt to inspect or replace the wiring yourself.

Welcome system (if equipped)

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 when driving in the dark. The interior lights may obscure your view and cause an accident.



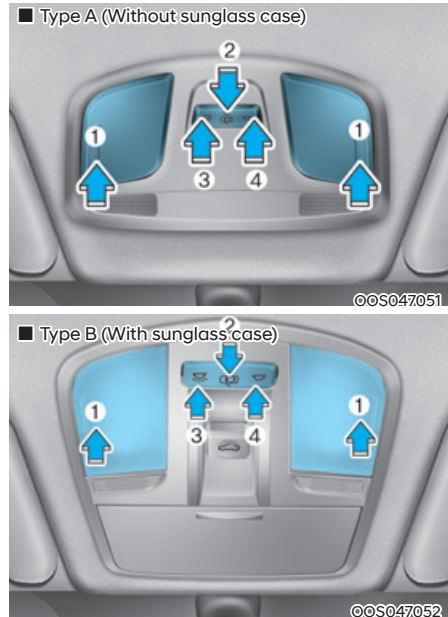
WARNING

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



Front map lamp (1)



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 Door Lamp () (2) :

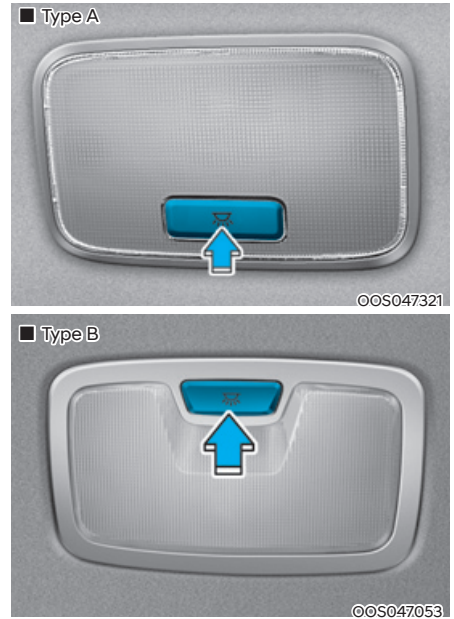
The room lamp for the front/rear seats is automatically turned ON for approximately 30 seconds, when a door is opened.

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.

Front room lamp

-  (3): Press the button to turn ON the room lamp for the front/rear seats.
-  (4): Press the button to turn OFF the room lamp for the front/rear seats.

Rear lamps



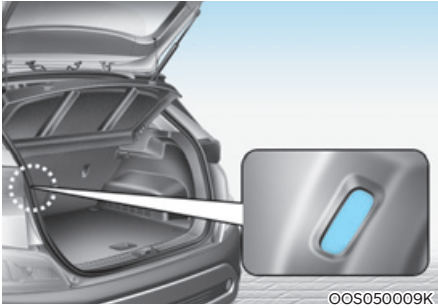
Rear Room Lamp Switch :

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

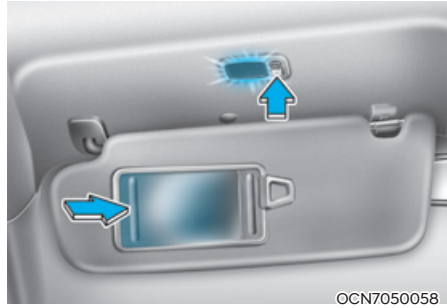


The luggage compartment lamp comes on when the tailgate is opened.



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)



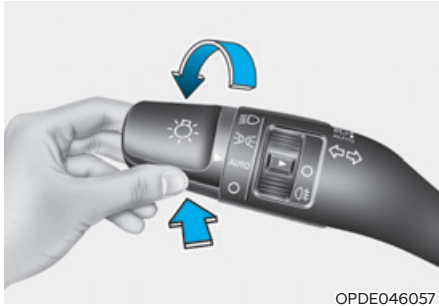
Push the switch to turn the light on or off.

-  : 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.

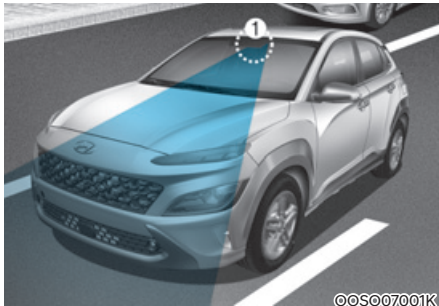
HIGH BEAM ASSIST (HBA) (IF EQUIPPED)



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.

Detecting sensor (Front view camera)



©S©7001K

[1] : Front view camera

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

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

For more details on the precautions of the front view camera, refer to “Forward Collision-Avoidance Assist (FCA)” section in chapter 7.

High Beam Assist setting

The driver can activate HBA by placing the ignition switch to the ON position and by selecting: ‘User Settings → Lights → HBA (High Beam Assist)’. If you disable this setting, HBA will not work.

The setting of HBA will be maintained, as selected, when the engine is re-started.

High Beam Assist condition

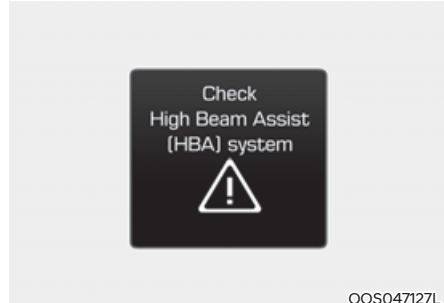
1. Place the light switch in the AUTO position.
2. Turn on the high beam by pushing the lever away from you.
3. High Beam Assist (AUTO) indicator will illuminate.
4. High Beam Assist will turn on when vehicle speed is above 40 km/h (25mph).
 - 1) If the light switch is pushed away when High Beam Assist is operating, High Beam Assist will turn off and the high beam will be on continuously.
 - 2) If the light switch is pulled towards you when the high beam is off, the high beam will turn on without High Beam Assist canceled. When you let go of the light switch, the lever will move to the middle and the high beam will turn off.
 - 3) 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.
 - 4) 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 headlamp/tail lamp of bicycle/motorcycle is detected.
- When the surroundings are bright enough high beams are not needed.
- When street lights 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 30 km/h (19 mph).

High Beam Assist malfunction and limitations

Warning light and message



OOS047127L

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 an authorized HYUNDAI dealer and have the system checked.



CAUTION

The function may not operate normally in the following conditions.

- ▶ When the light from on-coming or vehicle in front is dim
 - When the in light from the on-coming or vehicle in front in is not detected because of lamp damage, hidden from sight, etc.
 - When the lamp of the on-coming or vehicle in front is covered with dust, snow or water.
 - When the vehicle in front's headlamps are off but the fog lamps on and etc.
- ▶ When it is affected by an external condition
 - When there is a similar shaped lamp with the vehicle front vehicle's lamps.
 - When the headlamp is not repaired or replaced at an authorized dealer.

- When headlamp aiming is not properly adjusted.
- When driving on a narrow winding road or rough road.
- When driving downhill or uphill.
- When only part of the vehicle in front is visible on a crossroad or on a corner.
- 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 around a corner.
- When the vehicle is tilted from a flat tire or being towed.
- ▶ When the front visibility is poor
- When the light from the on-coming or vehicle in front is not detected because of exhaust fume, smoke, fog, snow, Heavy rain, dust, etc.
- When the front window is covered with foreign matter.



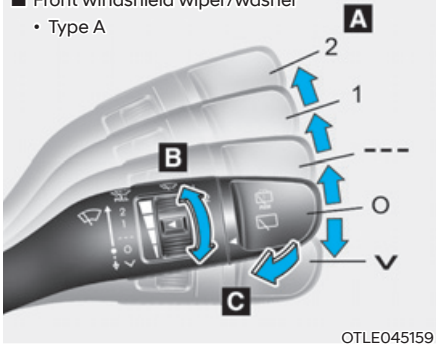
WARNING

- Do not disassemble a front view camera temporarily for tinted window or attaching any types of coatings and accessories. If you disassemble the camera and assemble it again, we recommend that you take your vehicle to an authorized HYUNDAI dealer and have the function checked to need a calibration.
- When you replace or reinstall the windshield glass, front view camera, we recommend that you take your vehicle to an authorized HYUNDAI dealer and have the function checked.
- Be careful that water doesn't get into High Beam Assist unit and do not remove or damage related parts of High Beam Assist.
- Do not place objects on the crash pad that reflect light such as mirrors, white paper, etc. The function 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.

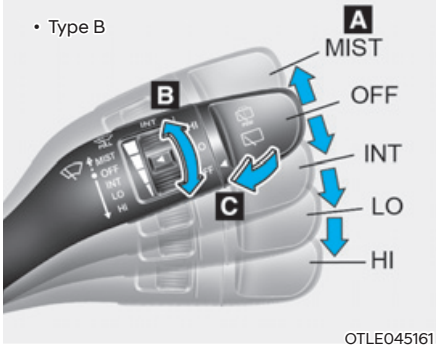
WIPERS AND WASHERS

■ Front windshield wiper/washer

- Type A

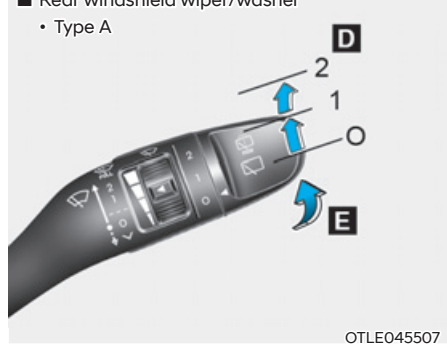


- Type B

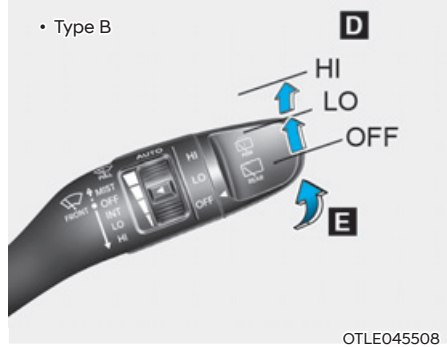


■ Rear windshield wiper/washer

- Type A



- Type B



A. Wiper speed control

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

B. Intermittent control wipe time adjustment

C. Wash with brief wipes (front)

D. Rear wiper control*

- 2 / HI – High wiper speed
- 1 / LO – Low wiper speed
- 0 / OFF – Off

E. Wash with brief wipes (rear)

* : if equipped

Windshield wipers

Operates as follows when the ignition switch is in the ON position.

∨/MIST : For a single wiping cycle, move the lever down (∨) or up (MIST) and release it. The wipers will operate continuously if the lever is held in this position.

O/OFF : Wiper is not in operation.

---/INT : Wipers operate 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/LO : Normal wiper speed

2/HI : Fast wiper speed

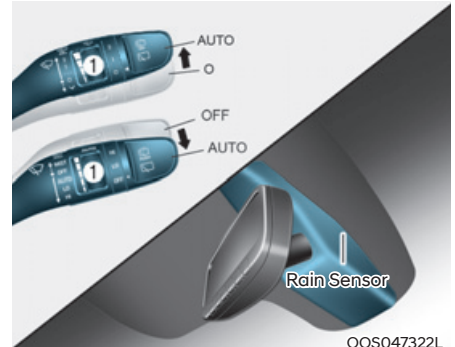


Information

If there is heavy accumulation of snow or ice on the windshield, defrost the windshield for about 10 minutes, or until the snow and/or ice is removed before using the windshield wipers to ensure proper operation.

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

AUTO (Automatic) control (if equipped)



OOS047322L

The rain sensor located on the upper end of the windshield glass senses the amount of rainfall and controls the wiping cycle for the proper interval. The wiper operation time will be automatically controlled depends on rainfall.

When the rain stops, the wiper stops. To vary the sensitivity setting, turn the sensitivity control knob (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.



WARNING

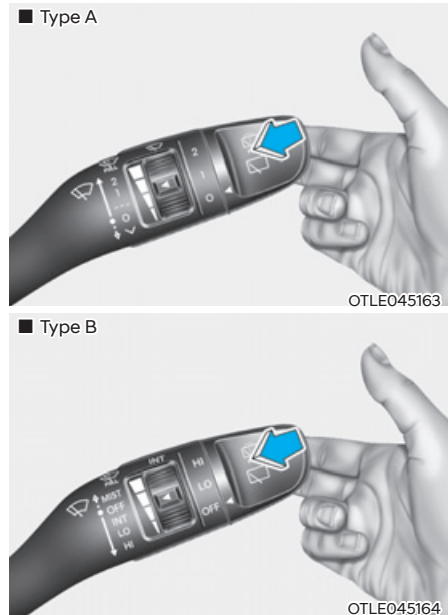
To avoid personal injury from the windshield wipers, when the engine is running and the windshield wiper switch is placed in the AUTO mode:

- 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.
- Set the wiper switch to the OFF position when the wiper is not in use.

NOTICE

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

Windshield washers



In the OFF (O) position, pull the lever gently toward you to spray washer fluid on the windshield and to run the wipers 1-3 cycles.

The spray and wiper operation will continue until you release the lever.

If the washer does not work, you may need to add washer fluid to the washer fluid reservoir.

If equipped with the Headlamp Washer, washer fluid will be sprayed on the headlamp at the same time you operate the windshield washer when:

1. The ignition switch is in the ON position.
2. The light switch is in the headlamp position.

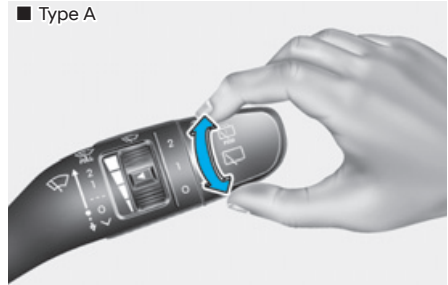
WARNING

When the outside temperature is below freezing, **ALWAYS** warm the windshield using the defroster to prevent the washer fluid from freezing on the windshield and obscuring your vision which could result in an accident and serious injury or death.

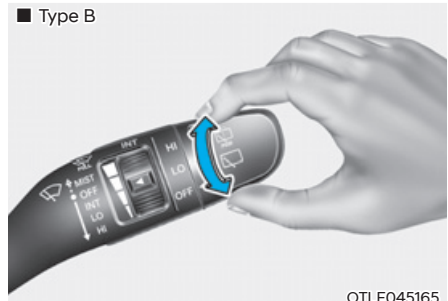
CAUTION

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

Rear window wiper and washer switch (if equipped)



OTLE045167



OTLE045165

The rear window wiper and washer switch is located at the end of the wiper and washer switch lever.

Turn the switch to the desired position to operate the rear wiper and washer.

2 / HI – High wiper speed

1 / LO – Low wiper speed

0 / OFF – Off

■ Type A



OTLE045168

■ Type B



OTLE045166

Push the lever away from you to spray rear washer fluid and to run the rear wiper 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 while the vehicle is in reverse with the front wipers ON by selecting the function on the LCD display.

Go to 'User Settings → Convenience → Auto Rear Wiper (reverse)'.

MANUAL CLIMATE CONTROL SYSTEM (IF EQUIPPED)





1. Fan speed control knob
 2. Temperature control knob
 3. Mode selection knob
 4. Front windshield defroster position
 5. A/C (Air conditioning) button*
 6. Air intake control button
 7. Rear window defroster button
- * : if equipped

Heating and air conditioning

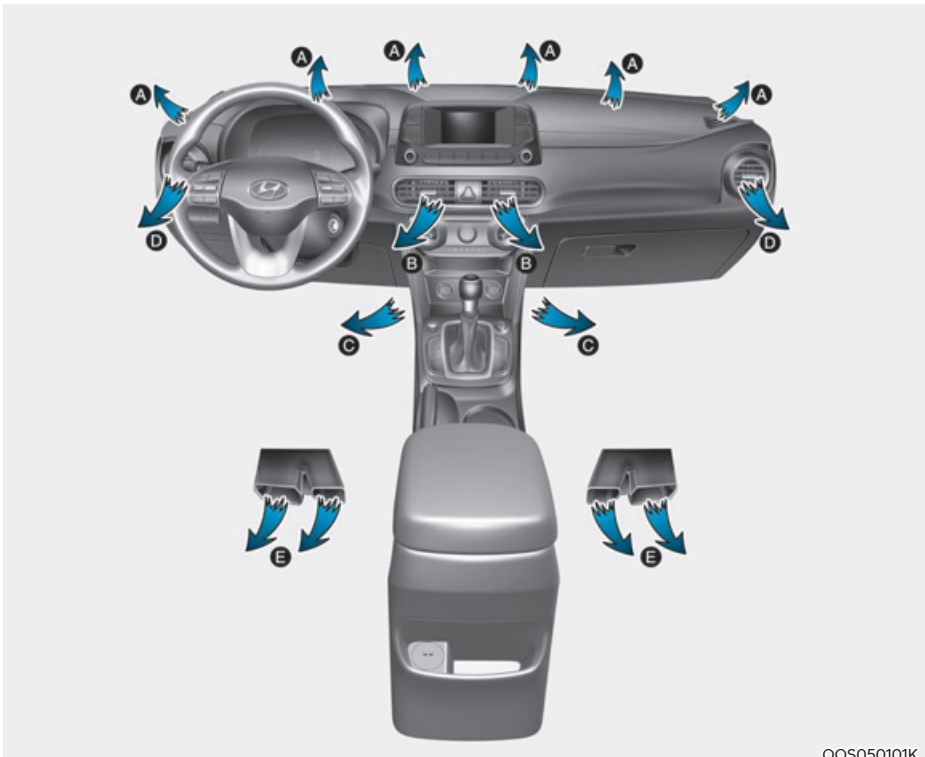
1. Start the engine.
2. Set the mode to the desired position.

To improve the effectiveness of heating and cooling :

- Heating: 
- Cooling: 

3. Set the temperature control to the desired position.
4. Set the air intake control to Fresh mode.
5. Set the fan speed control to the desired speed.
6. If air conditioning is desired, turn the air conditioning system on.

Mode selection



OOS050101K

The mode selection knob controls the direction of the air flow through the ventilation system.

Air can be directed to the floor, dashboard outlets, or windshield.



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.



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

Air flow is directed towards the face and the floor.



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

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



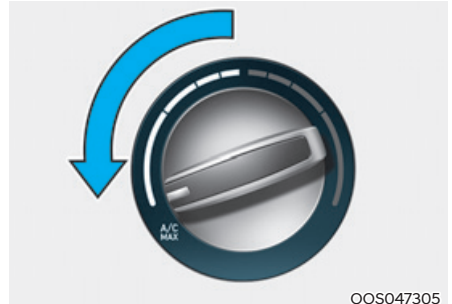
Floor/Defrost-Level (A, C, D, E)

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



Defrost-Level (A, D)

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



OOS047305

A/C MAX-Level (B, D) (if equipped)

To operate the A/C MAX, turn the temperature control knob to extreme left. Air flow is directed toward the upper body and face.

In this mode, the air conditioning and the recirculated air position will be selected automatically.

After the interior has cooled sufficiently, whenever possible, move the temperature knob away from A/C MAX and press the A/C button.



OOS050102K

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 (2)

The temperature will increase by turning the knob to the right. The temperature will decrease by turning the knob to the left.

Air intake control (7)

This is used to select outside (fresh) air position or recirculated air position.

To change the air intake control position, press 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.

Information

Using the system in the fresh air position is recommended.

Prolonged operation of the heater in the recirculated air position (without air conditioning selected) can cause fogging of the windshield and side windows and the air within the passenger compartment will become stale.

In addition, prolonged use of the air conditioning with the recirculated air position selected will result in excessively dry air in the passenger compartment.

WARNING

- Continued climate control system operation in the recirculated air position may allow humidity to increase inside the vehicle which may fog the glass and obscure visibility.
- Do not sleep in a vehicle with the air conditioning or heating system on. It may cause serious harm or death due to a drop in the oxygen level and/or body temperature.
- Continued climate control system operation in the recirculated air position can cause drowsiness or sleepiness, and loss of vehicle control. Set the air intake control to the outside (fresh) air position as much as possible while driving.

Fan speed control (1)

Turn the knob to the right to increase the fan speed and airflow. Turn the knob to the left to decrease fan speed and airflow.

Setting the fan speed control knob to the "0" position turns off the fan.

NOTICE


Operating the fan speed when the ignition switch is in the ON position could cause the battery to discharge. Operate the fan speed when the engine is running.

Air conditioning (A/C) (5) (if equipped)


Press the A/C button to turn the air conditioning system on (indicator light will illuminate). Press the button again to turn the air conditioning system off.

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 (if equipped) on.


If the windshield 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 windshield, set the air intake control to the fresh air position and fan speed to the desired position, turn on the air conditioning system, and adjust the temperature control to 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 hood. Refer to chapter 5 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 labeled) as meeting SAE Standard J2842.

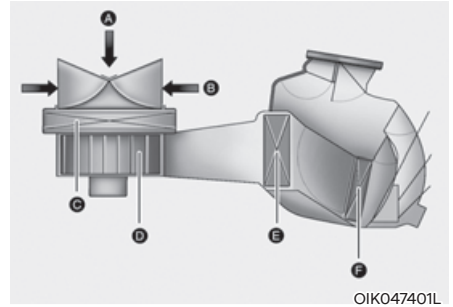
NOTICE

- When using the air conditioning system, monitor the temperature gauge closely while driving up hills or in heavy traffic when outside temperatures are high. Air conditioning system operation may cause engine overheating. Continue to use the 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 windshield could cause the outer surface of the windshield to fog up, causing loss of visibility. In this case, set the mode selection knob to the  position and set the fan speed control knob to the lowest speed setting.

System maintenance Climate control air filter



[A] : Outside air, [B] : Recirculated air
[C] : Climate control air filter, [D] : Blower
[E] : Evaporator core, [F] : Heater core

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 an authorized HYUNDAI dealer according to the maintenance schedule. If the vehicle is being driven in severe conditions such as dusty or rough roads, more frequent climate control filter inspections and changes are required.

If the air flow rate suddenly decreases, we recommend the system be checked at an authorized HYUNDAI dealer.

Checking the amount of air conditioner refrigerant and compressor lubricant


When the amount of refrigerant is low, the performance of the air conditioning is reduced. Overfilling also reduces the performance of the air conditioning system.

Therefore, if abnormal operation is found, we recommend that the system be inspected by an authorized HYUNDAI dealer.

NOTICE

It is important that the correct type and amount of oil and refrigerant is used. Otherwise, damage to the compressor and abnormal system operation may occur. To prevent damage, the air conditioning system in your vehicle should only be serviced by trained and certified technicians.



WARNING

Vehicles equipped with R-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.

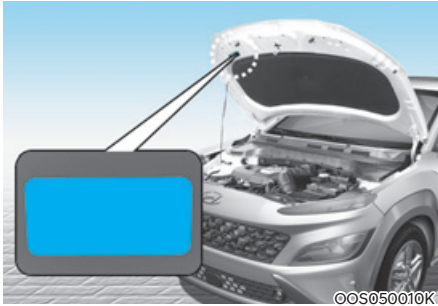
Venting refrigerants directly to the atmosphere is harmful to individuals and environment. Failure to heed these warnings can lead to serious injuries.

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.



©OS050010K

Air Conditioning refrigerant label

You can find out which air conditioning refrigerant is applied to your vehicle on the label located inside of the hood.

■ Example

• Type A



OHYK059004

• Type B



OHYK059001

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

AUTOMATIC CLIMATE CONTROL SYSTEM (IF EQUIPPED)



OOS050103L

1. Temperature control knob
2. Fan speed control knob
3. AUTO (automatic control) button
4. Air conditioning button
5. OFF button
6. Front windshield defroster button
7. Mode selection button
8. Rear window defroster button
9. Air intake control button
10. Climate control information screen

Automatic heating and air conditioning

The Automatic Climate Control System is controlled by setting the desired temperature.

1. Press the AUTO button. (3)

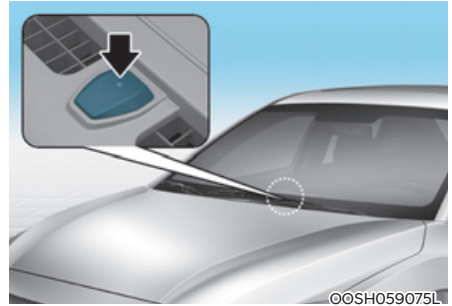
The modes, fan speeds, air intake and air-conditioning will be controlled automatically by the temperature setting you select.

2. Turn the temperature control knob (1) 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 windshield defroster button (Press the button one more time to deselect the front windshield defroster funcn The 'AUTO' sign will illuminate on the information display once again.)
- Fan speed control button
The selected function will be controlled manually while other functions operate automatically.

For your convenience and to improve the effectiveness of the climate control, use the AUTO button and set the temperature to 23°C (73°F).





i Information

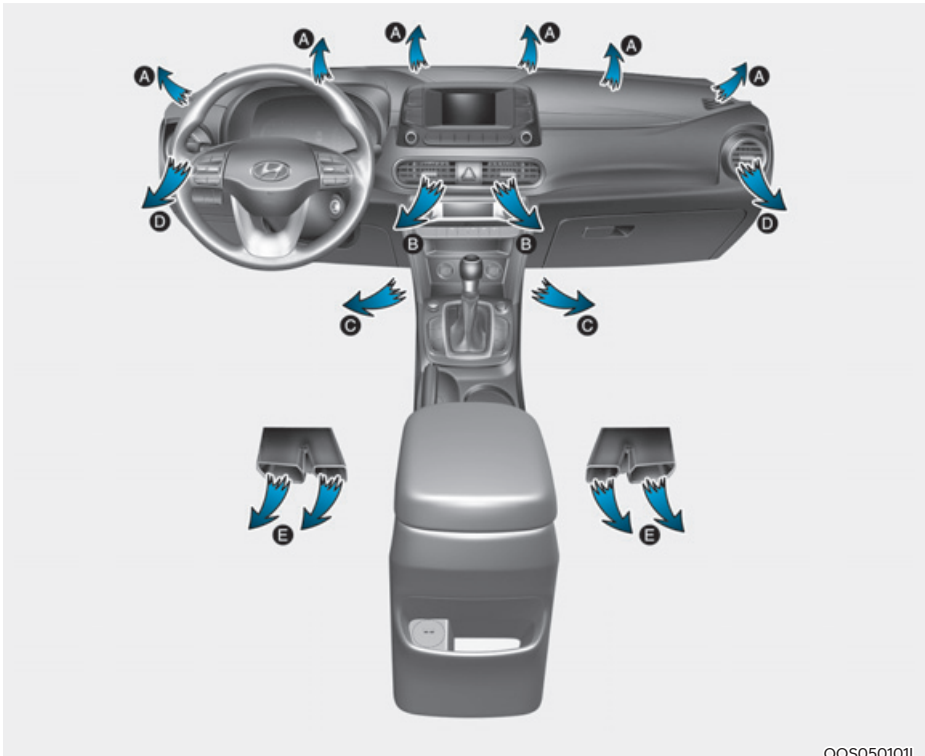
Never place anything near the sensor to ensure better control of the heating and cooling system.

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 while 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



OOS050101L

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 windshield.



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.

Defrost-Level (A) (6)

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



OOS050120L

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 (1)

The temperature will increase by turning the knob to the right. The temperature will decrease by turning the knob to the left.

Air intake control (9)

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 windshield and side windows and the air within the passenger compartment will become stale.

In addition, prolonged use of the air conditioning with the recirculated air position selected will result in excessively dry air in the passenger compartment.

! WARNING

- **Continued climate control system operation in the recirculated air position may allow humidity to increase inside the vehicle which may fog the glass and obscure visibility.**
- **Do not sleep in a vehicle with the air conditioning or heating system on. It may cause serious harm or death due to a drop in the oxygen level and/or body temperature.**
- **Continued climate control system operation in the recirculated air position can cause drowsiness or sleepiness, and loss of vehicle control. Set the air intake control to the outside (fresh) air position as much as possible while driving.**

Fan speed control (2)

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 (4)

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 (5)




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 windshield 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 windshield, set the air intake control to the fresh air position and fan speed to the desired position, turn on the air conditioning system, and adjust the temperature control to 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 hood. Refer to chapter 5 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 labeled) as meeting SAE Standard J2842.**

NOTICE

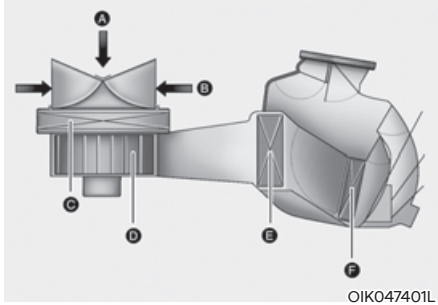
- **When using the air conditioning system, monitor the temperature gauge closely while driving up hills or in heavy traffic when outside temperatures are high. Air conditioning system operation may cause engine overheating. Continue to use the fan but turn the air conditioning system off if the temperature 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 windshield could cause the outer surface of the windshield to fog up, causing loss of visibility. In this case, set the mode selection button to the  position and set the fan speed control knob to the lowest speed setting.

System maintenance

Climate control air filter



[A] : Outside air, [B] : Recirculated air
 [C] : Climate control air filter, [D] : Blower
 [E] : Evaporator core, [F] : Heater core

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 an authorized HYUNDAI dealer according to the maintenance schedule. If the vehicle is being driven in severe conditions such as dusty or rough roads, more frequent climate control filter inspections and changes are required.

If the air flow rate suddenly decreases, we recommend the system be checked at an authorized HYUNDAI dealer.

Checking the amount of air conditioner refrigerant and compressor lubricant

When the amount of refrigerant is low, the performance of the air conditioning is reduced. Overfilling also reduces the performance of the air conditioning system.

Therefore, if abnormal operation is found, we recommend that the system be inspected by an authorized HYUNDAI dealer.

NOTICE

It is important that the correct type and amount of oil and refrigerant is used. Otherwise, damage to the compressor and abnormal system operation may occur. To prevent damage, the air conditioning system in your vehicle should only be serviced by trained and certified technicians.

WARNING

Vehicles equipped with R-134a



Since the refrigerant is operated at very high pressure, the air conditioning system should only be serviced by trained and certified technicians.

All refrigerants should be reclaimed with proper equipment.

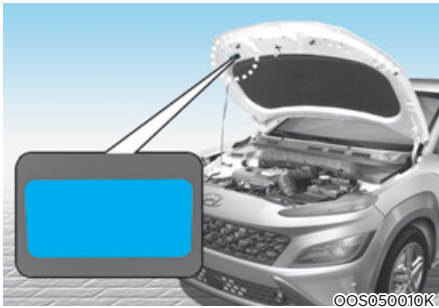
Venting refrigerants directly to the atmosphere is harmful to individuals and environment. Failure to heed these warnings can lead to serious injuries.

WARNING

Vehicles equipped with R-1234yf
 Since the refrigerant is mildly flammable and operated at high pressure, the air conditioning system should only be serviced by trained and certified technicians. It is important that the correct type and amount of oil and refrigerant are used.

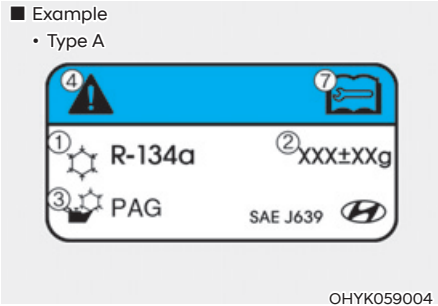


All refrigerants should be reclaimed with proper equipment. Venting refrigerants directly to the atmosphere is harmful to individuals and environment. Failure to heed these warnings can lead to serious injuries.

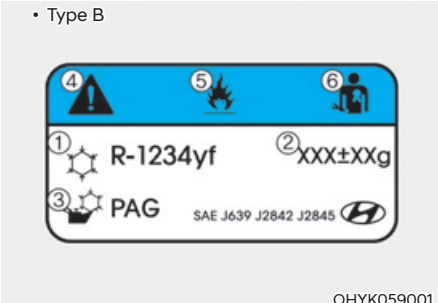


Air Conditioning refrigerant label

You can find out which air conditioning refrigerant is applied to your vehicle on the label located inside of the hood.



OHYK059004



OHYK059001

Each symbols and specification on the air conditioning refrigerant label is represented as below:




1. Classification of refrigerant
2. Amount of refrigerant
3. Classification of compressor lubricant
4. Caution
5. Flammable refrigerant
6. To require registered technician to service air conditioning system
7. Service manual

WINDSHIELD DEFROSTING AND DEFOGGING



WARNING

Windshield heating

Do not use the  or  position during cooling operation in extremely humid weather. The difference between the temperature of the outside air and that of the windshield could cause the outer surface of the windshield to fog up, causing loss of visibility. In this case, set the mode selection knob or button to the  position and fan speed control knob or button to lower speed.

- For maximum windshield defrosting, set the temperature control knob to the highest temperature setting and the fan control knob to the highest fan speed. Select the front defrost button on the climate control display. After the engine warm-up period, warm air will be directed to the front windshield.
- If warm air to the floor is desired while defrosting or defogging, set the mode to the floor-defrost position.
- Before driving, clear all snow and ice from the windshield, rear window, outside rear view mirrors, and all side windows.
- Clear all snow and ice from the hood and air inlet in the cowl grill to improve heater and defroster efficiency and to reduce the probability of fogging up inside of the windshield.

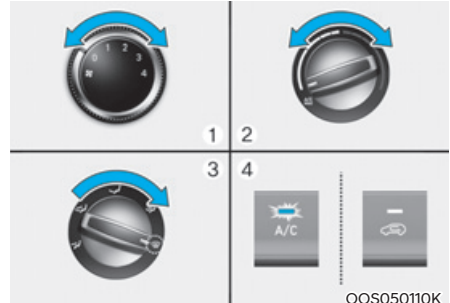


Information




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.

Manual climate control system

To defog inside windshield

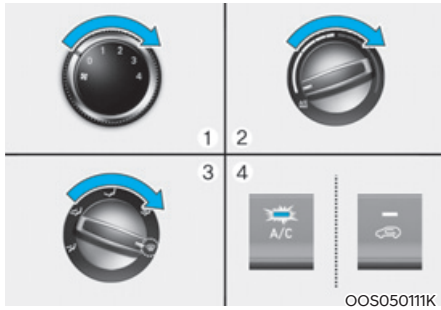



OOS050110K

1. Select any fan speed except “0” position.
2. Select the desired temperature.
3. Select the  or  position.
4. The outside (fresh) air will be selected automatically. Additionally, the air conditioning (if equipped) will automatically operate if the mode is selected to the  position.

If the air conditioning and outside (fresh) air position are not selected automatically, press the corresponding button manually.

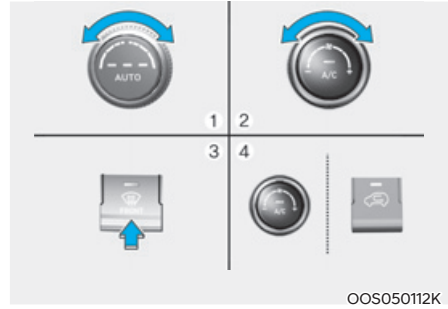
To defrost outside windshield




1. Set the fan speed to the highest (extreme right) position.
2. Set the temperature to the extreme hot position.
3. Select the  position.
4. The outside (fresh) air and air conditioning (if equipped) will be selected automatically.


Automatic climate control system

To defog inside windshield

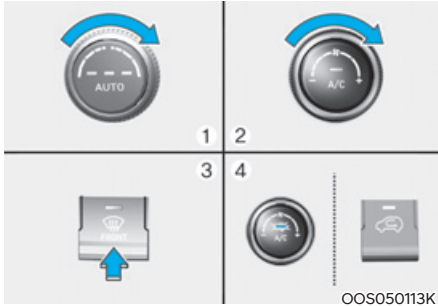


1. Select the desired fan speed.
2. Select the desired temperature.
3. Press the defroster button ().
4. The air-conditioning will turn on according to the detected ambient temperature, outside (fresh) air position and higher fan speed will be selected automatically.

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 windshield



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.

Auto defogging system (only for automatic climate control system, if equipped)

Auto defogging reduces the possibility of fogging up the inside of the windshield by automatically sensing the moisture on inside the windshield.

The auto defogging system operates when the heater or air conditioning is on.

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 while the Auto defogging system is operating.

NOTICE

Do not remove the sensor cover located on the top of the windshield glass.

Damage to system parts could occur and may not be covered by your vehicle warranty.

Defroster

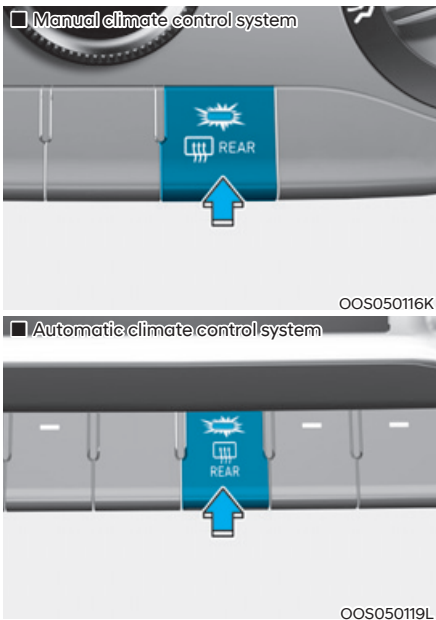
NOTICE

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 windshield, refer to “Windshield 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, while the engine is running.

- To activate the rear window defroster, press the rear window defroster button located in the center facia switch panel. The indicator on the rear window defroster button illuminates when the defroster is ON.
- To turn off the defroster, press the rear window defroster button again.

i Information

- If there is heavy accumulation of snow on the rear window, brush it off before operating the rear defroster.
- The rear window defroster automatically turns off after approximately 20 minutes or when 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.

CLIMATE CONTROL ADDITIONAL FEATURES


Cluster ionizer (if equipped)

When the ignition switch is in the ON position, the clean air function turns on automatically.

Also, the clean air function turns off automatically, when the ignition switch is in the OFF position.

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 canceled, the indicator will blink 3 times.

Sunroof inside air recirculation (if equipped)

When the sunroof is opened, outside (fresh) air will be automatically selected. At this time, if you press the air intake control button, recirculated air position will be selected but will change back to outside (fresh) air after 3 minutes. When the sunroof is closed, the air intake position will return to the original position that was selected.

STORAGE COMPARTMENT



WARNING

Never store cigarette lighters, propane cylinders, or other flammable/explosive materials in the vehicle. These items may catch fire and/or explode if the vehicle is exposed to hot temperatures for extended periods.



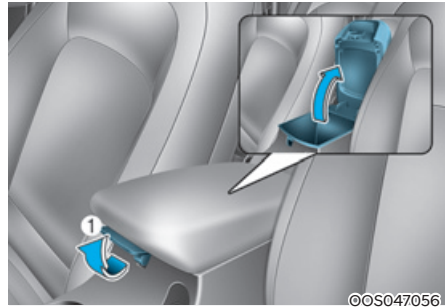
WARNING

ALWAYS keep the storage compartment covers closed securely while driving. Items inside your vehicle are moving as fast as the vehicle. If you have to stop or turn quickly, or if there is a crash, the items may fly out of the compartment and may cause an injury if they strike the driver or a passenger.

NOTICE

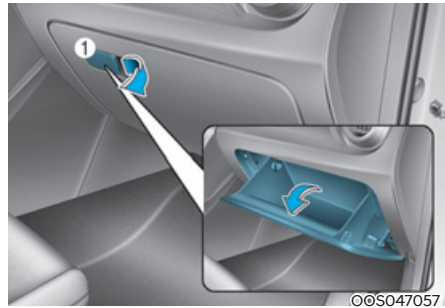
To avoid possible theft, do not leave valuables in the storage compartments.

Center console storage



To open :
Pull the lever (1).

Glove box



To open the glove box, pull the handle (1) and the glove box will automatically open. Close the glove box after use.

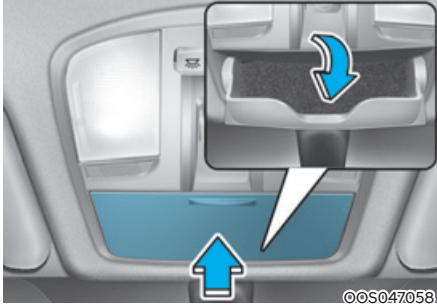


WARNING

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 (if equipped)



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 sunglasses holder is closed while driving.

Multi box



Small things may be placed in the multi box.



WARNING

- **Do not keep objects except sunglasses inside the sunglasses holder. Such objects can be thrown from the holder in the event of a sudden stop or an accident, possibly injuring the passengers in the vehicle.**
- **Do not open the sunglass holder while the vehicle is moving. The rear view mirror of the vehicle can be blocked by an open sunglass holder.**
- **Do not attempt to force sunglasses into the sunglass holder. If the sunglasses become jammed and you try to open it forcibly, personal injury may occur.**

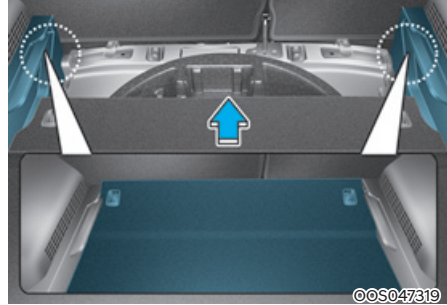
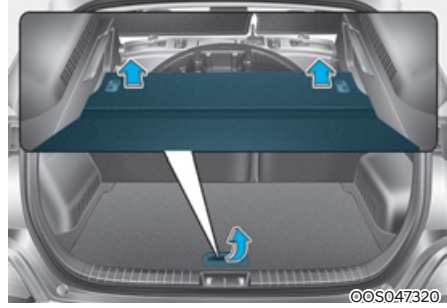
Luggage tray (if equipped)



You can place a first aid kit, a reflector triangle (front tray), tools, etc. in the box for easy access.

- Grasp the handle on the top of the cover and lift it.

To increase luggage space

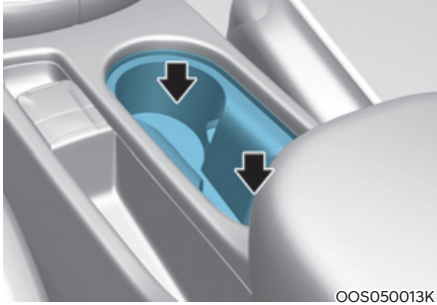


1. Grasp the handle on the top of the cover and pull out the luggage tray board backwards.
2. Pull out the luggage tray board completely and remove the luggage tray.(If the luggage tray is equipped.)
3. Push the luggage tray board forwards into the lower sliding slot.

INTERIOR FEATURES

Cup holder

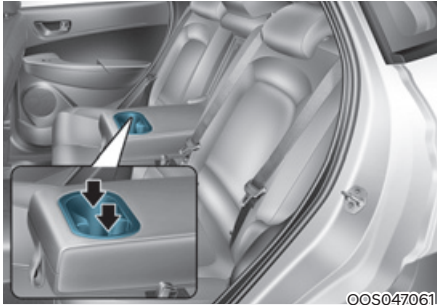
Front



©OS050013K

Cups or small beverages cups may be placed in the cup holders.

Rear (if equipped)



©OS047061

Pull the armrest down to use the cup holders.



WARNING

- Avoid abrupt starting and braking when the cup holder is in use to prevent spilling your drink. If hot liquid spills, you could be burned. Such a burn to the driver could cause loss of vehicle control resulting in an accident.
- Do not place uncovered or unsecured cups, bottles, cans, etc., in the cup holder containing hot liquid while the vehicle is in motion. Injuries may result in the event of a sudden stop or collision.
- Only use soft cups in the cup holders. Hard objects can injure you in an accident.



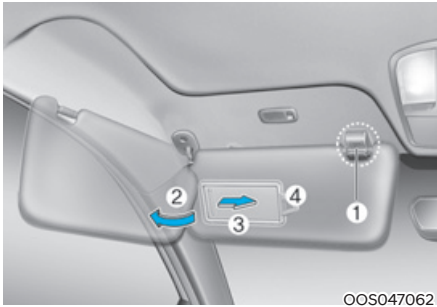
WARNING

Keep cans or bottles out of direct sun light and do not put them in a hot vehicle. It may explode.

NOTICE

- Keep your drinks sealed while driving to prevent spilling your drink. If liquid spills, it may get into the vehicle's electrical/electronic system and damage electrical/electronic parts.
- When cleaning spilled liquids, do not 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

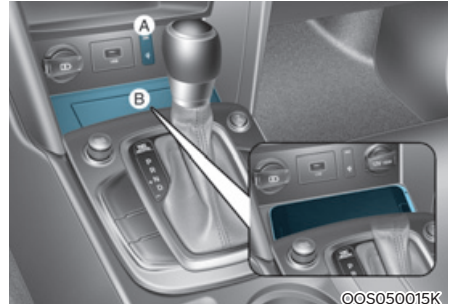
Avoid electrical shocks. Do not place your fingers or foreign objects (pin, etc.) into a power outlet or touch the power outlet with a wet hand.

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.
- 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.

Wireless cellular phone charging system (if equipped)



[A] : Indicator light, [B] : Charging pad

There is a wireless cellular phone charger inside the front console.

The system is available when all doors are closed, and when the ignition switch is in the ON position.

To charge a cellular phone

The wireless cellular phone charging system charges only the Qi-enabled cellular phones (Qi). Read the label on the cellular phone accessory cover or visit your cellular phone manufacturer's website to check whether your cellular phone supports the Qi technology.

The wireless charging process starts when you put a Qi-enabled cellular phone on the wireless charging unit.

1. Remove other items, including the smart key, from the wireless charging unit. If not, the wireless charging process may be interrupted. Place the cellular phone on the center of charging pad.
2. The indicator light is orange when the cellular phone is charging. The indicator light turns green when phone charging is complete.
3. You can turn ON or OFF the wireless charging function in the User Settings mode on the instrument cluster. For further information, refer to the "User setting mode" in chapter 4.

If your cellular phone is not charging:

- Slightly change the position of the cellular phone on the charging pad.
- Make sure the indicator light is orange.

The indicator light will blink orange for 10 seconds if there is a malfunction in the wireless charging system.

In this case, temporarily stop the charging process, and re-attempt to wirelessly charge your cellular phone again.

The system warns you with a message on the LCD display if the cellular phone is still on the wireless charging unit after the engine is turned OFF and the front door is opened.

- High speed wireless charging can be activated only when the cellular phones equipped with a wireless charging function is on the charging pad.
- During wireless charging, the internal fan operates to prevent the charging pad from becoming hot. This may cause fan noise.

Information

For some manufacturers' cellular phones, the system may not warn you even though the cellular phone is left on the wireless charging unit. This is due to the particular characteristic of the cellular phone and not a malfunction of the wireless charging.

NOTICE

- The wireless cellular phone charging system may not support certain cellular phones, which are not verified for the Qi specification (Qi).
- When placing your cellular phone on the charging mat, position the phone in the middle of the mat for optimal charging performance. If your cell phone is off to the side, the charging rate may be less and in some cases the cell phone may experience higher heat conduction.

- The wireless charging process may temporarily stop, when temperature abnormally increases inside the wireless cellular phone charging system. Stop the charging cellular phone and wait until temperature falls to a certain level.
- The wireless charging process may temporarily stop when there is any metallic item, such as a coin, between the wireless cellular phone charging system and the cellular phone.
- The charging some cell phones with the case still applied, the wireless charging speed may decrease and the wireless charging may stop.
- If the cell phone is not completely contacting the charging pad, wireless charging may not operate properly.
- Some magnetic items like credit cards, phone cards or rail tickets may be damaged if left with the cellular phone during the charging process.
- When any cellular phone without a wireless charging function or a metallic object is placed on the charging pad, a small noise may sound. This small sound is due to the vehicle discerning compatibility of the object placed on the charging pad. It does not affect your vehicle or the cellular phone in any way.
- If some metallic items such as coins and other metallic substances exist between the wireless charging system and the cell phone, the wireless charging process may be temporarily interrupted, the metallic substances can be hot, and the alarm may not work when the cell phone is left on the charging pad.

Information

If the Engine Start/Stop button is OFF, the charging also stops.

Clock

WARNING

Do not adjust the clock while 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.

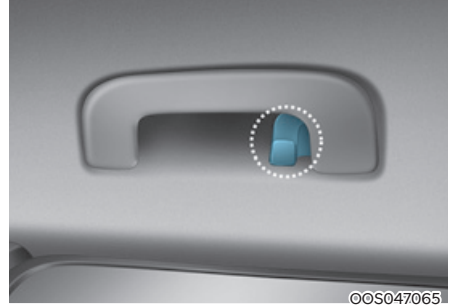
Vehicles with Navigation system

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.

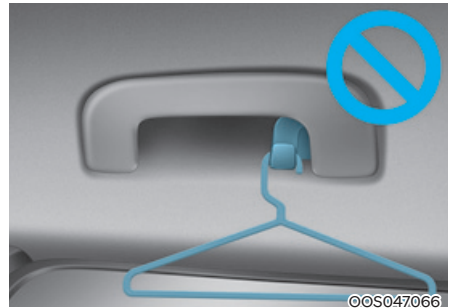
For more details, please refer to the separate manual that was supplied with your vehicle.

Clothes hanger (if equipped)



These hangers are not designed to hold large or heavy items.

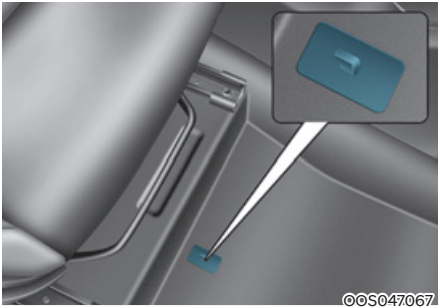
WARNING



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 to remove a protective film attached on the carpet before attaching a floor mat on the front floor carpet. Otherwise, the floor mat may move freely on the protective film and it could result in unintentional braking or accelerating.
- Ensure that the floor mats are securely attached to the vehicle's floor mat anchor(s) before driving the vehicle.
- Do not use ANY floor mat that cannot be firmly attached to the vehicle's floor mat anchors.
- Do not stack floor mats on top of one another (e.g. all-weather rubber mat on top of a carpeted floor mat). Only a single floor mat should be installed in each position.
- **IMPORTANT** - Your vehicle was manufactured with driver's side floor mat anchors that are designed to securely hold the floor mat in place. To avoid any interference with pedal operation, HYUNDAI recommends that the HYUNDAI floor mat designed for use in your vehicle be installed.

Luggage net (holder)



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 authorized HYUNDAI dealer to obtain a luggage net.

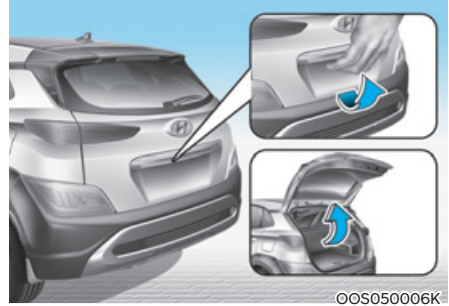
CAUTION

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

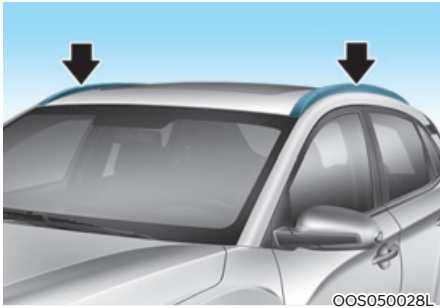
Since the cargo area cover may be damaged or deformed, **do not put luggage on it when it is being used.**

WARNING

- Do not place objects on the cargo area cover while 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.

EXTERIOR FEATURES

Roof rack (if equipped)



If the vehicle has a roof rack, you can load cargo on top of your vehicle.

NOTICE

If the vehicle is equipped with a sunroof, be sure not to position cargo onto the roof rack in such a way that it could interfere with sunroof operation.

NOTICE

- When carrying cargo on the roof rack, take the necessary precautions to make sure the cargo does not damage the roof of the vehicle.
- When carrying large objects on the roof rack, make sure they do not exceed the overall roof length or width.

WARNING

- The following specification is the maximum weight that can be loaded onto the roof rack. Distribute the load as evenly as possible onto the roof rack and secure the load firmly.

ROOF RACK	80 kg (176 lbs.) EVENLY DISTRIBUTED
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- Loading cargo or luggage in excess of the specified weight limit on the roof rack may damage your vehicle.
- The vehicle center of gravity will be higher when items are loaded onto the roof rack. Avoid sudden starts, braking, sharp turns, abrupt maneuvers or high speeds that may result in loss of vehicle control or rollover resulting in an accident.
- Always drive slowly and turn corners carefully when carrying items on the roof rack. Severe wind updrafts, caused by passing vehicles or natural causes, can cause sudden upward pressure on items loaded on the roof rack. This is especially true when carrying large, flat items such as wood panels or mattresses. This could cause the items to fall off the roof rack and cause damage to your vehicle or others around you.
- To prevent damage or loss of cargo while driving, check frequently before or while driving to make sure the items on the roof rack are securely fastened.

INFOTAINMENT SYSTEM

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 and iPod® port

You can use a USB port to plug in an USB and an iPod® port.



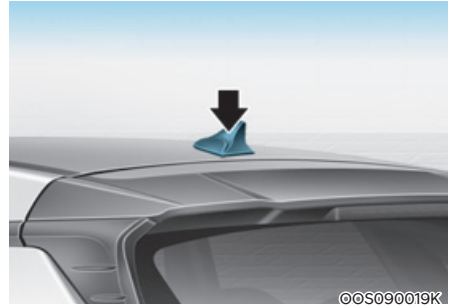
i Information

When using a portable audio device connected to the power outlet, noise may occur during playback. If this happens, use the power source of the portable audio device.

* iPod® is a trademark of Apple Inc.

Antenna

Roof antenna



The roof antenna receives transmitted data. (For example : AM/FM, DAB, GPS/ GNSS)

Rotate the roof antenna in a counterclockwise direction to remove it. Rotate it in a clockwise direction to reinstall it.

NOTICE

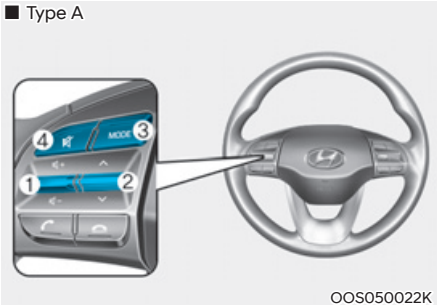
- Before entering a place with low height clearance or a car wash, remove the antenna by rotating it counterclockwise. If not, the antenna may be damaged.
- When reinstalling your antenna, it is important that it is fully tightened and adjusted to the upright position to ensure proper reception.

NOTICE

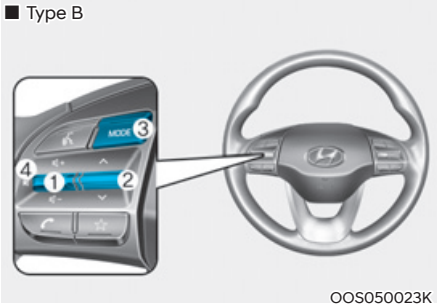
- Do not clean the inside of the rear window glass with a cleaner or use a scraper to remove foreign deposits as this may cause damage to the antenna elements.
- Avoid adding metallic coatings such as Ni, Cd, and so on. These can degrade the received AM and FM broadcast signals.

Steering wheel audio controls (if equipped)

■ Type A



■ Type B



The steering wheel audio control switches are installed for your convenience.

NOTICE

Do not operate audio remote control buttons simultaneously.

VOLUME (+ / -) (1)

- Move the VOLUME toggle switch up to increase volume.
- Move the VOLUME toggle switch down to decrease volume.

SEEK/PRESET (^ / \) (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.

Information

Detailed information for audio control buttons are described in the following pages in this chapter.

Bluetooth® Wireless Technology hands-free



©OS050024K

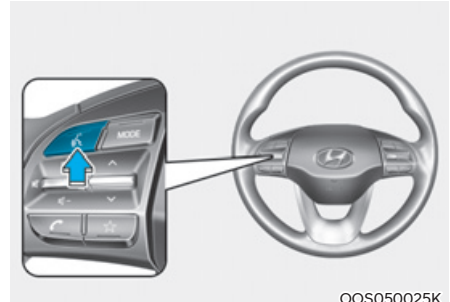


©OS047076

You can use the phone wirelessly by using the *Bluetooth*® Wireless Technology.

- (1) Call / Answer button
 - (2) Call end button
 - (3) Microphone (RHD vehicle : Right side)
- Audio : For detailed information, refer to “AUDIO” in this chapter.
 - AVN : Detailed information for the Bluetooth® Wireless Technology hands-free is described in the manual supplied separately.

Voice recognition



OOS050025K

You can operate the voice recognition function through voice commands.

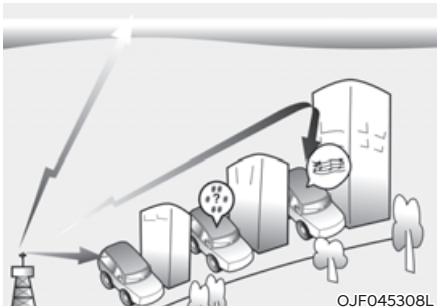
For detailed information, refer to the separately supplied infotainment system manual.

Audio / Video / Navigation system (AVN) (if equipped)

Detailed information for the AVN system is described in a separately supplied manual.

How vehicle radio works

FM reception

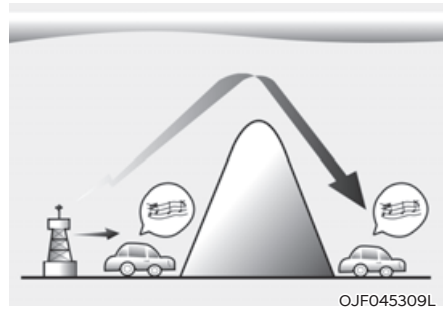


AM and FM radio signals are broadcast from transmitter towers located around your city. They are intercepted by the radio antenna on your vehicle. This signal is then received by the radio and sent to your vehicle speakers.

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.

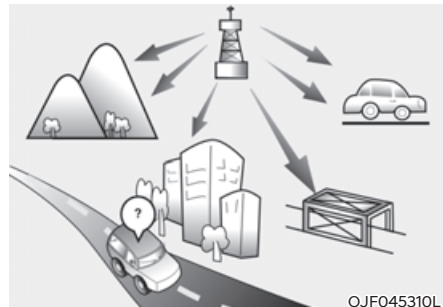
AM (MW, LW) reception



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.

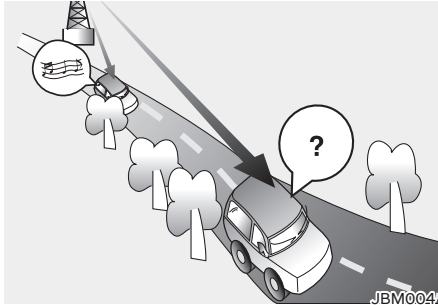
In addition, they curve around obstructions so that they can provide better signal coverage.

FM radio station

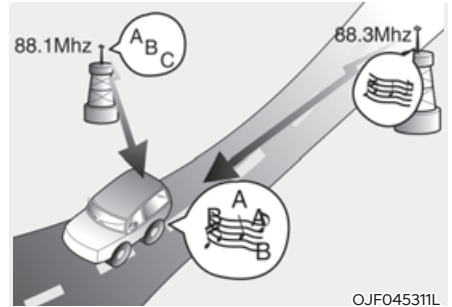


FM broadcasts are transmitted at high frequencies and do not bend to follow the earth's surface. Because of this, FM broadcasts generally begin to fade at short distances from the station. Also, FM signals are easily affected by buildings, mountains, or other obstructions. These can result in certain 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 cellular phone or a two-way radio

When a cellular 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 cellular phone at a place as far as possible from the audio equipment.

NOTICE

When using a communication system such as a cellular phone or a radio set inside the vehicle, a separate external antenna must be fitted. When a cellular 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 cellular phone while driving. Stop at a safe location to use a cellular phone.

iPod®

iPod® is a registered trademark of Apple Inc.

Bluetooth® Wireless Technology

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 cell phone is required to use *Bluetooth®* Wireless Technology.



AUDIO (WITHOUT TOUCH SCREEN)

System layout – control panel



(1) SEEK/TRACK button

- Change the station/track/file.
- While listening to the radio, press and hold to search for a station.
- While playing media, press and hold to rewind or fast forward (except for the Bluetooth audio mode).

(2) RADIO button

- Press to turn on the radio. While listening to the radio, press to change the radio mode.

(3) MEDIA button

- Press to play content from a media storage device. Press repeatedly to switch modes between USB (iPod) and Bluetooth audio.
- If you have multiple media storage devices, select one from the media selection window.

(4) PHONE button

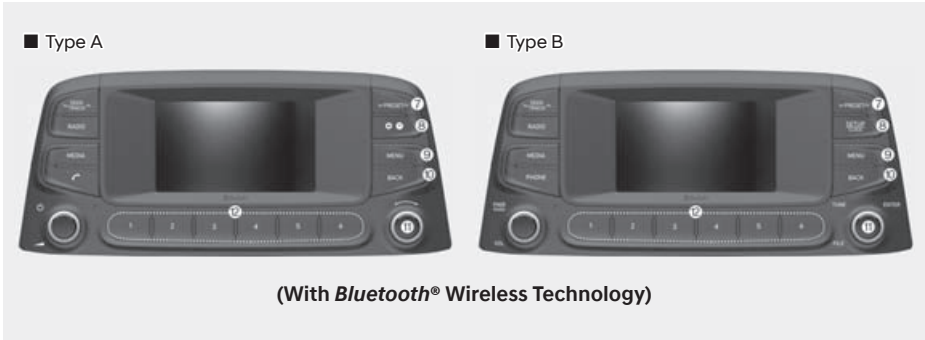
- Press to start connecting a mobile phone via Bluetooth.
- After a Bluetooth phone connection is made, press to access the Bluetooth phone menu.

(5) POWER button/VOL knob

- Press to turn the system on or off.
- Turn to the left or right to adjust the system sound volume.

(6) Reset button

* The system's actual appearance and layout may differ depending on the vehicle model and specification.



(7) PRESET button

- While listening to the radio, press to move to previous or next page of the preset list.

(8) SETUP button/CLOCK button

- Press to access the setup screen.
- Press and hold to access the time setup screen.

(9) MENU button

- Press to return to the previous screen.

(10) BACK button

- Press to return to the previous screen.

(11) TUNE knob/FILE knob/ENTER button

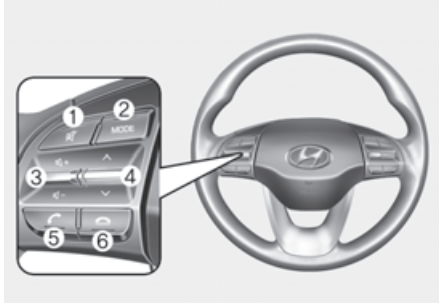
- While listening to the radio, turn to adjust the frequency.
- While playing media, turn to search for a track/file (except for the Bluetooth audio mode).
- During a search, press to select the current track/file.

(12) Number buttons (1–6)

- While listening to the radio, press to listen to a saved radio station.
- While listening to the radio, press and hold to save the current radio station to the preset.
- Press the corresponding number button to select an item.

* The system's actual appearance and layout may differ depending on the vehicle model and specification.

System layout – steering wheel remote control



(Bluetooth® equipped model)

* The system's actual appearance and layout may differ depending on the vehicle model and specification.

(1) MUTE button

- Press to mute or unmute the system.
- During a call, press to mute or unmute the microphone.
- While playing media, press to pause or resume playback (except for the iPod mode).

(2) MODE button

- Press to switch between radio and media modes.

(3) Volume lever

- Push up or down to adjust the volume.

(4) Up/Down lever

- Change the station/track/file.
- While listening to the radio, push to listen to the previous/next saved radio station.
- While listening to the radio, push and hold to search for a station.
- While playing media, push and hold to rewind or fast forward (except for the Bluetooth audio mode).

(5) Call/Answer button

- Press to start connecting a mobile phone via Bluetooth.
- After a Bluetooth phone connection is made, access the Bluetooth phone screen. Press and hold to dial the most recent phone number. When a call comes in, press to answer the call.
- During a call, press to switch between the active call and the held call. Press and hold to switch the call between the system and the mobile phone.

(6) Call/Answer button



WARNING - About driving

- Do not operate the system while driving. Driving while distracted may result in a loss of vehicle control, potentially leading to an accident, severe personal injury, or death. The driver's primary responsibility is the safe and legal operation of a vehicle, and any handheld devices, equipment, or vehicle systems which divert the driver's attention from this responsibility should never be used during operation of the vehicle.
- Avoid watching the screen while driving. Driving while distracted may lead to a traffic accident. Stop your vehicle in a safe location before using functions that require multiple operations.
- Stop your vehicle first before using your mobile phone. Using a mobile phone while driving may lead to a traffic accident. If necessary, use the Bluetooth Handsfree feature to make calls and keep the call as short as possible.
- Keep the volume low enough to hear external sounds. Driving without the ability to hear external sounds may lead to a traffic accident. Listening to a loud volume for a long time may cause hearing damage.



WARNING

- About handling the system

- **Do not disassemble or modify the system. Doing so may result in an accident, fire, or electric shock.**
- **Do not allow liquids or foreign substances to enter the system. Liquids or foreign substances may cause noxious fumes, a fire, or a system malfunction.**
- **Stop using the system if it malfunctions, such as no audio output or display. If you continue using the system when it is malfunctioning, it may lead to a fire, electric shock, or system failure.**
- **Do not touch the antenna during thunder or lightning because such an act may cause electric shock.**



Information

- About operating the system

- **Use the system with the engine running. Using the system for a long time when the engine is stopped may discharge the battery.**
- **Do not install unapproved products. Using unapproved products may cause an error while using the system. System errors caused by installing unapproved products are not covered under the warranty.**

i Information

- About handling the system

- Do not apply excessive force to the system. Excessive pressure on the screen may damage the LCD panel or the touch panel.
- When cleaning the screen or button panel, make sure to stop the engine and use a soft, dry cloth. Wiping the screen or buttons with a rough cloth or using solvents (alcohol, benzene, paint thinner, etc.) may scratch or chemically damage the surface.
- If you attach a liquid-type air freshener to the fan louvre, the surface of the louvre may become deformed due to the flowing air.
- If you want to change the position of the installed device, please inquire with your place of purchase or service maintenance centre. Technical expertise is required to install or disassemble the device.

NOTICE

- If you experience any problems with the system, contact your place of purchase or dealer.
- Placing the infotainment system within an electromagnetic environment may result in noise interference.

NOTICE

Manufacturer: HYUNDAI MOBIS Co., Ltd. 203, Teheran-ro, Gangnam-gu, Seoul, 06141, Korea Tel: +82-31-260-2707

Turning the system on or off

To turn on the system, start the engine.

- If you do not want to use the system while driving, you can turn off the system by pressing the **[POWER]** button on the control panel. To use the system again, press the **[POWER]** button again.

After you have turned off the engine, the system will automatically turn off after a while or as soon as you open the driver's door.

- Depending on the vehicle model or specifications, the system may turn off as soon as you turn off the engine.
- When you turn back on the system, the previous mode and settings will remain intact.



WARNING

- Some functions may be disabled for safety reasons while the vehicle is moving. They work only when the vehicle stops. Park your vehicle in a safe location before using any of them.
- Stop using the system if it malfunctions, such as no audio output or display. If you continue using the system when it is malfunctioning, it may lead to a fire, electric shock, or system failure.

i Information

You can turn on the system when the key ignition switch is placed in the "ACC" or "ON" position. Using the system for an extended period without the engine running drains the battery. If you plan on using the system for a long time, start the engine.

Turning the display on or off

To prevent glare, you can turn off the screen. The screen can be turned off only while the system is on.

1. On the control panel, press the [SETUP/CLOCK] button.
 2. On the control panel, press the [6] button to select Display Off.
- To turn the screen back on, press any of the control panel buttons.

Getting to know the basic operations

You can select an item or adjust the settings by using the number buttons and the [TUNE] knob on the control panel.

Selecting an item

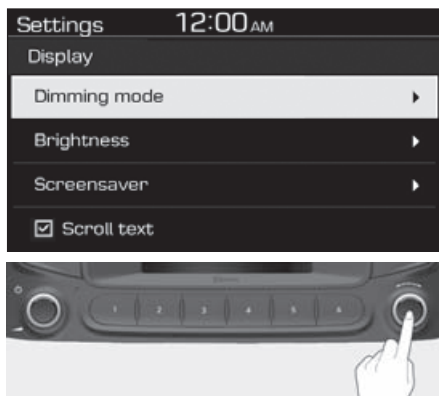
Numbered items

Press the corresponding number button.



Numberless items

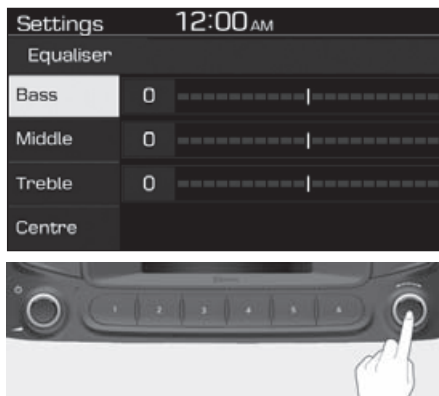
Turn the [TUNE] knob to select the desired item, and then press the knob.



Adjusting the settings

Turn the [TUNE] knob to adjust the value, and then press the knob to save changes.

Turn the [TUNE] knob to the right to increase the value and turn the [TUNE] knob to the left to decrease the value.



RADIO

Turning on the radio

On the control panel, press the **[RADIO]** button.

FM/AM Mode

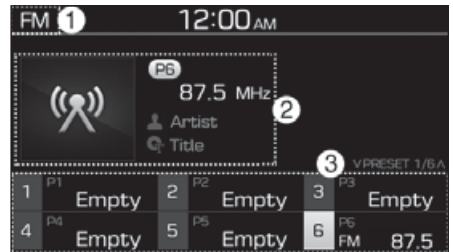


- (1) Current radio mode
- (2) Radio station information
- (3) Preset list

Press the **[MENU]** button on the control panel to access the following menu options:

- **List:** Display all available radio stations.
- **Scan:** The system searches for radio stations with strong radio signals and plays each radio station for about five seconds.
- **Sound Settings:** Customise the system sound settings.

FM/AM Mode (With RDS)

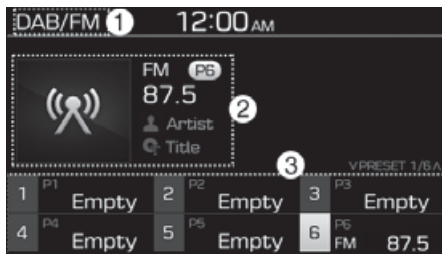


- (1) Current radio mode
- (2) Radio station information
- (3) Preset list

Press the **[MENU]** button on the control panel to access the following menu options:

- **List:** Display all available radio stations.
- **Traffic Announcement (TA)** (if equipped): Activate or deactivate traffic announcements. Announcements and programmes will be received automatically if available.
- **Scan:** The system searches for radio stations with strong radio signals and plays each radio station for about five seconds.
- **Sound Settings:** Customise the system sound settings.

DAB/FM Mode (With DAB)



- (1) Current radio mode
- (2) Radio station information
- (3) Preset list

Press the **[MENU]** button on the control panel to access the following menu options:

- **List:** Display all available radio stations.
- **Traffic Announcement (TA):** Activate or deactivate traffic announcements. Announcements and programmes will be received automatically if available.
- **Region:** Enable or disable automatic switching between regional stations.
- **Sound Settings:** Customise the system sound settings.
- **Scan:** The system searches for radio stations with strong radio signals and plays each radio station for about five seconds.
- **Manual tune FM:** Tune the radio frequency manually.

Changing the radio mode

Alternatively, press the **[RADIO]** button on the control panel or the **[MODE]** button on the steering wheel. Each time you press the button, the radio mode switches.

Scanning for available radio stations

You can listen to each radio station for a few seconds to test the reception and select the one you want.

1. From the radio screen, press the **[MENU]** button on the control panel.
2. Turn the **[TUNE]** knob to select **Scan**, and then press the knob.
 - The system searches for radio stations with strong radio signals and plays each radio station for about five seconds.
3. When you find the radio station you want to listen to, press the **[TUNE]** knob.
 - You can continue listening to the selected station.

Searching for radio stations

To search for the previous or next available radio station, press the **[∨ SEEK/TRACK ∧]** button on the control panel.

- You can also press and hold the **[∨ SEEK/TRACK ∧]** button to search for frequencies quickly. When you release the button, a radio station with a strong signal is selected automatically. (if equipped)

If you know the exact frequency of the radio station you want to listen to, turn the **[TUNE]** knob on the control panel to change the frequency.

Saving radio stations

You can save your favourite radio stations and listen to them by selecting them from the preset list.

While listening to the radio, press the number button for an empty preset slot on the radio screen.

- The radio station you are listening to will be added to the selected number.

NOTICE

- **You can save up to 36 radio stations.**
- **If the preset list is full, you can replace one of your favourite stations with the station you are listening to. On the control panel, press and hold the desired number button.**

Listening to saved radio stations

1. Confirm the preset number for the radio station you want to listen to.
2. On the control panel, press the desired number button.
 - Alternatively, push the Up/Down lever on the steering wheel to change the station.

MEDIA PLAYER

Using the media player

You can play music stored in various media storage devices, such as USB storage devices, smartphones, and iPods.

1. Connect a device to the USB port in your vehicle.
 - Playback may start immediately depending on the device that you connect to the system.
2. On the control panel, press the **[MEDIA]** button.
 - If you have multiple media storage devices, press the **[MEDIA]** button again and press the corresponding number button to select the desired mode.

NOTICE

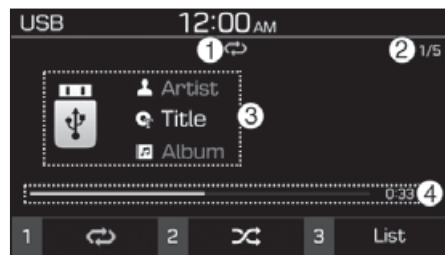
- When you connect an Apple device, playback does not start automatically. To start the media player in the iPod mode, press the [MEDIA] button on the control panel.
- You can also change the mode by press the [MODE] button repeatedly on the steering wheel.
- Make sure to connect or disconnect external USB devices with the system power turned off.
- Depending on vehicle models and specifications, available buttons or the appearance and layout of the USB ports in your vehicle may vary.
- Do not connect a smartphone or an MP3 device to the system via multiple methods such as USB and Bluetooth, simultaneously. Doing so may cause a distorted noise or a system malfunction.
- When the equaliser function of the connected device and Equaliser settings of the system are both activated, the effects may interfere with each other and may lead to sound degradation or distortion. Deactivate the device's equaliser function if possible.
- Noise may occur when an Apple device is connected. When such devices are not being used, disconnect the device for storage.
- When the Apple device power is connected to the power jack, playing the external device may result in noise. In such cases, disconnect the power connection before use.

Using the USB mode

You can play media files stored in portable devices, such as USB storage devices and MP3 players. Check compatible USB storage devices and file specifications before using the USB mode.

Connect your USB device to the USB port in the vehicle.

- Playback starts immediately.
- If a USB device is already connected to the system, press the [MEDIA] button and press the [1] button to select **USB** from the media selection window.



- (1) Repeat play mode
- (2) Current file number and total number of files
- (3) Information about the song currently playing
- (4) Playback time and playback position

Press the [MENU] button on the control panel to access the following menu options:

- **Information:** Display information about the song currently playing.
- **Sound Settings:** Customise the system sound settings.

Rewinding/Fast forwarding

On the control panel, press and hold the [∨ **SEEK/TRACK** ∧] button.

- You can also push and hold the Up/Down lever on the steering wheel.

Restarting the current playback

On the control panel after the song has played for 2 seconds, press the [∨ **SEEK/TRACK**] button.

- You can also push the Up/Down lever on the steering wheel.

Playing the previous or next song

To play the previous song on the control panel within the first 2 seconds of the current song, press the [∨ **SEEK/TRACK**] button. To play the next song, press the [**SEEK/TRACK** ∧] button on the control panel.

- If more than 2 seconds of playback have elapsed, press the [∨ **SEEK/TRACK**] button on the control panel twice to play the previous song.
- You can also push the Up/Down lever on the steering wheel.

NOTICE

- **On the control panel, turn the [FILE] knob to find the desired song and press the knob within five seconds to play the file.**
- **If no control is detected within five seconds, the search is cancelled and the screen displays information about the song currently playing.**

Playing repeatedly

On the control panel, press the [1] button. The repeat play mode changes each time you press it. The corresponding mode icon will be displayed on the screen.

Playing in random order

On the control panel, press the [2] button. The shuffle play mode is activated or deactivated each time you press it. When you activate the shuffle mode, the corresponding mode icon will be displayed on the screen.

Searching for music files on a file list

1. On the control panel, press the [3] button to select **List**.
2. Turn the [TUNE] knob to select the desired category and file, and then press the knob to play the music file.

i Information

- **Start the engine of your vehicle before connecting a USB device to your system. Starting the engine with a USB device connected to the system may damage the USB device.**
- **Be careful of static electricity when connecting or disconnecting a USB device. A static discharge may cause a system malfunction.**
- **Be careful not to let your body or external objects contact the USB port. Doing so may cause an accident or a system malfunction.**
- **Do not connect and disconnect a USB connector repeatedly in a short time. Doing so may cause an error in the device or a system malfunction.**
- **Do not use a USB device for purposes other than playing files. Using USB accessories for charging or heating may cause poor performance or a system malfunction.**

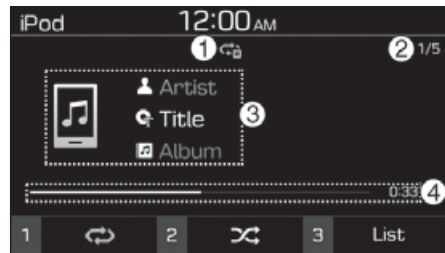
NOTICE

- When connecting a USB storage device, do not use an extension cable. Connect it directly to the USB port. If you use a USB hub or an extension cable, the device may not be recognized.
- Fully insert a USB connector into the USB port. Failure to do so may cause a communication error.
- When you disconnect a USB storage device, a distorted noise may occur.
- The system can play only files encoded in a standard format.
- The following types of USB devices may not be recognised or work correctly:
 - Encrypted MP3 players
 - USB devices not recognised as removable disks
- A USB device may not be recognised depending on its condition.
- Some USB devices may be incompatible with your system.
- Depending on the USB device's type, capacity, or the format of files, USB recognition time may be longer.
- Image and video playback are not supported.

Using the iPod mode

You can listen to music stored on your Apple devices, such as an iPod or an iPhone.

1. Connect your Apple device to the USB port in your vehicle using the cable supplied with the Apple device.
 - When connected, the device will begin charging. Music playback will not start automatically.
2. On the control panel, press the [MEDIA] button.
 - If multiple devices are connected to the system, press the [MEDIA] button and press the [1] button to select iPod from the media selection window.



- (1) Repeat play mode
- (2) Current file number and total number of files
- (3) Information about the song currently playing
- (4) Playback time and playback position

Press the [MENU] button on the control panel to access the following menu options:

- **Information:** Display information about the song currently playing.
- **Sound Settings:** Customise the system sound settings.

Rewinding/Fast forwarding

On the control panel, press and hold the [∨ **SEEK/TRACK** ∧] button.

- You can also push and hold the Up/Down lever on the steering wheel.

Restarting the current playback

On the control panel after the song has played for 2 seconds, press the [∨ **SEEK/TRACK**] button.

- You can also push the Up/Down lever on the steering wheel.

Playing the previous or next song

To play the previous song on the control panel within the first 2 seconds of the current song, press the [∨ **SEEK/TRACK**] button. To play the next song, press the [**SEEK/TRACK** ∧] button on the control panel.

- If more than 2 seconds of playback have elapsed, press the [∨ **SEEK/TRACK**] button on the control panel twice to play the previous song.
- You can also push the Up/Down lever on the steering wheel.

NOTICE

- **On the control panel, turn the [FILE] knob to find the desired song and press the knob within five seconds to play the file.**
- **If no control is detected within five seconds, the search is cancelled and the screen displays information about the song currently playing.**

Playing repeatedly

On the control panel, press the [1] button. The repeat play mode changes each time you press it. The corresponding mode icon will be displayed on the screen.

Playing in random order

On the control panel, press the [2] button. The shuffle play mode is activated or deactivated each time you press it. When you activate the shuffle mode, the corresponding mode icon will be displayed on the screen.

Searching for music files on a file list

1. On the control panel, press the [3] button to select **List**.
2. Turn the [TUNE] knob to select the desired category and file, and then press the knob to play the music file.

i Information

- **Be sure to start the engine before you connect devices to the system. The device may be damaged if the engine is started while the device connected.**
- **Do not connect and disconnect a USB connector repeatedly in a short time. Doing so may cause an error in the device or a system malfunction.**

Notes on connecting Apple devices

- Ensure that the iOS and firmware of your device is up-to-date before connecting it to your system. Outdated devices may cause a system error.
- If your device's battery is low, the device may not be recognised. Check the battery level and, if necessary, charge the battery before connecting the device to your system.
- Use an Apple-approved cable. Using an unapproved cable may cause a distorted noise or an error during playback.
- Use a cable shorter than 1 metre in length, such as the one originally supplied with a new Apple device. Longer cables may lead to the infotainment system not recognising the Apple device.
- Fully insert a USB connector into the USB port. Failure to do so may cause a communication error.
- If you connect your device to the system while playback is in progress on the device, you may hear a high pitch sound just after the connection. Connect the device after stopping or pausing playback.
- Connecting your device during a download or synchronizing with iTunes may cause an error. Connect the device after the download or synchronization is complete.
- If you connect an iPod nano (except for the 6th generation) or an iPod classic, the brand logo will be displayed on the device screen. For an iPhone and an iPod touch, the logo will not be displayed.

Notes on playing Apple devices

- Depending on the model, your device may not be recognised due to unsupported communication protocols.
- The order of the songs displayed or played on the system may differ from the order of the songs stored in your device.
- Depending on the music player application you are using, information displayed on the system may differ.
- In an iPhone, the audio streaming function and iPod mode control may conflict. If an error occurs, disconnect and reconnect the USB cable.
- When using an iPhone or an iPod touch, do not control the device while it is connected to your system. An error may occur.
- If you make or receive a call during playback via an iPhone, the music may remain paused after you end the call. If you do not hear the music after ending a call, check the device to see if the music is paused.
- Do not duplicate a song in multiple folders. One song saved in multiple folders may cause an error with search and playback functions.
- If you perform a media control function, such as stop or repeat, just before a song ends, the song information displayed on the screen may not match the song currently playing. This is not a system error. Restart the iPod mode on the system or pause and resume playback on your device.
- Skipping or improper operations may occur depending on the characteristics of your Apple device.
- If the Apple device malfunctions due to an Apple device defect, reset the Apple device and try again. (To learn more, refer to your Apple device manual.)

BLUETOOTH

Connecting Bluetooth devices

Bluetooth is a short-range wireless networking technology. Via Bluetooth, you can connect nearby mobile devices wirelessly to send and receive data between connected devices. This enables you to use your devices effectively.

To use Bluetooth, you must first connect a Bluetooth-enabled device to your system, such as a mobile phone or an MP3 player. Ensure that the device you want to connect supports Bluetooth.



WARNING

Park your vehicle in a safe location before connecting Bluetooth devices. Distracted driving can cause a traffic accident and lead to personal injury or death.

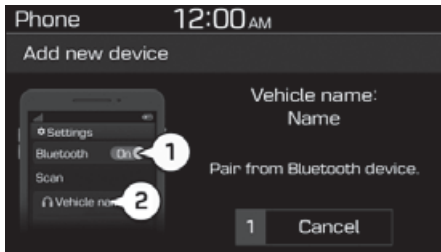
NOTICE

- **On your system, you can use only Bluetooth Handsfree and Audio features. Connect a mobile device that supports both features.**
- **Some Bluetooth devices may cause malfunctions to the infotainment system or make interference noises. In this case, storing the device in a different location may resolve the problem.**
- **Depending on the connected Bluetooth device or mobile phone, some functions may not be supported.**
- **If the system is not stable due to a vehicle-Bluetooth device communication error, delete the paired devices and connect the Bluetooth devices again.**
- **If Bluetooth connection is not stable, follow these steps to try again.**
 1. **Deactivate Bluetooth and reactivate it on the device. Then, reconnect the device.**
 2. **Turn the device off and on. Then, reconnect it.**
 3. **Remove the battery from the device and reinstall it. Then, turn the device on and reconnect it.**
 4. **Unregister the Bluetooth pairing on both the system and the device and then re-register and connect them.**

Pairing devices with your system

For Bluetooth connections, first pair your device with your system to add it to the system's list of Bluetooth devices. You can register up to five devices.

1. From the control panel, press the **[SETUP/CLOCK]** button, and then select **Bluetooth ► Connections**.
 - If you are pairing a device with your system for the first time, you can also press the **[PHONE]** button on the control panel or the Call/Answer button on the steering wheel.
2. On the Bluetooth device you want to connect, activate Bluetooth, search for your vehicle's system, and then select it.
 - Check the system's Bluetooth name, which is displayed in the new registration pop-up window on the system screen.



3. Enter or confirm the passkey to confirm the connection.
 - If the passkey input screen is displayed on the Bluetooth device screen, enter the passkey '0000' which is displayed on the system screen.
 - If the 6-digit passkey is displayed on the Bluetooth device screen, ensure that the Bluetooth passkey displayed on the Bluetooth device is the same as the passkey on the system screen and confirm the connection from the device.

4. Choose whether or not to connect the Bluetooth device to your system prior to other devices.
 - If you grant priority to the Bluetooth device, it will be connected automatically to the system when you turn on the system.

NOTICE

- **The screen image in this manual is an example. Check your system screen for the exact vehicle name and Bluetooth device name.**
- **The default passkey is '0000'.**
- **It may take a while for the system to connect with the device after you permit the system to access the device. When a connection is made, the Bluetooth status icon appears at the top of the screen.**
- **You can change the permission settings via the mobile phone's Bluetooth settings menu. For more information, refer to your mobile phone's user guide.**
- **To register a new device, repeat steps 1 to 4.**
- **When a device is connected to the system via Bluetooth, you cannot pair another device.**
- **If you use the automatic Bluetooth connection function, a call may be switched to the vehicle's Handsfree when you are taking on the phone near the vehicle while the vehicle's engine is on. If you do not want the system to connect with the device automatically, deactivate Bluetooth on your device.**
- **When a device is connected to the system via Bluetooth, the device's battery may discharge faster.**

Connecting a paired device

To use a Bluetooth device on your system, connect the paired device to the system. Your system can connect with only one device at a time.

1. From the control panel, press the **[SETUP/CLOCK]** button, and then select **Bluetooth ► Connections**.
 - If there is no connected device, press the **[PHONE]** button on the control panel or the Call/Answer button on the steering wheel.
2. Turn the **[TUNE]** knob to select the device to connect, and then press the knob.
 - If another device is already connected to your system, disconnect it. Select the connected device to disconnect.
3. Turn the **[TUNE]** knob to select **Connect**, and then press the knob.

NOTICE

- **If a connection ends because a device is out of the connection range or a device error occurs, the connection will be restored automatically when the device enters the connection range or when the error is cleared.**
- **The Bluetooth connection is unavailable when the device's Bluetooth function is turned off. Be sure to turn on the device's Bluetooth function.**
- **Depending on auto connection priority, connection to a device may take time.**

Disconnecting a device

If you want to stop using a Bluetooth device or connect another device, disconnect your currently connected device.

1. From the control panel, press the **[SETUP/CLOCK]** button, and then select **Bluetooth ► Connections**.
2. Turn the **[TUNE]** knob to select the device to disconnect, and then press the knob.
3. Turn the **[TUNE]** knob to select **Disconnect**, and then press the knob.

Deleting paired devices

If you no longer want a Bluetooth device paired or if you want to connect a new device when the Bluetooth device list is full, delete paired devices.

1. From the control panel, press the **[SETUP/CLOCK]** button, and then select **Bluetooth ► Connections**.
2. Turn the **[TUNE]** knob to select the device to delete, and then press the knob.
3. Turn the **[TUNE]** knob to select **Delete**, and then press the knob.

NOTICE

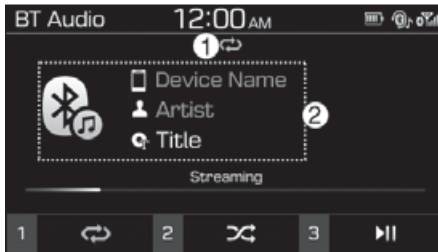
- **When you delete a paired device, the Call history and Contacts stored in the system are also deleted.**
- **To re-use a deleted device, you must pair the device again.**

Using a Bluetooth audio device

You can listen to music stored in the connected Bluetooth audio device via your vehicle's speakers.

On the control panel, press the [MEDIA] button.

- If you have multiple media storage devices, press the [MEDIA] button and press the [2] button to select **BT Audio** from the media selection window.



(1) Repeat play mode

(2) Information about the song currently playing

Press the [MENU] button on the control panel to access the following menu options:

- **Connections:** Set up the Bluetooth connection.
- **Sound Settings:** Customise the system sound settings.

Pausing/Resuming playback

To pause playback, press the [3] button on the control panel. To resume playback, press the [3] button again.

Playing repeatedly

On the control panel, press the [1] button. The repeat play mode changes each time you press it. The corresponding mode icon will be displayed on the screen.

Playing in random order

On the control panel, press the [2] button. The shuffle play mode is activated or deactivated each time you press it. When you activate the shuffle mode, the corresponding mode icon will be displayed on the screen.

NOTICE

- Depending on the connected Bluetooth device, mobile phone, or the music player you are using, playback controls may differ.
- Depending on the music player you are using, streaming may not be supported.
- Depending on the connected Bluetooth device or mobile phone, some functions may not be supported.
- If you connect a Bluetooth device or mobile phone to your system via USB and Bluetooth simultaneously the Bluetooth mode is deactivated and music plays in the USB or iPod mode. To listen to music streamed via Bluetooth, remove the USB device.
- If a Bluetooth enabled phone is being used to play music and it receives or makes a phone call, the music will stop.
- Receiving an incoming call or making an outgoing call while playing Bluetooth audio may result in audio interference.

- If you use the Bluetooth phone mode while using Bluetooth audio, playback may not automatically resume after you end the call depending on the connected mobile phone.
- If you use the Bluetooth phone mode while using Bluetooth audio, playback may not automatically resume after you end the call depending on the connected mobile phone.
- Moving the track up/down while playing Bluetooth audio mode may result in pop noises with some mobile phones.
- The playlist feature is not supported in the Bluetooth audio mode.
- The playlist feature is not supported in the Bluetooth audio mode.
- If the Bluetooth device is disconnected, Bluetooth audio mode will end.

Using a Bluetooth phone

You can use Bluetooth to talk on the phone hands free. View call information on the system screen, and make or receive calls safely and conveniently via the vehicle's built-in microphone and speakers.



WARNING

- Park your vehicle in a safe location before connecting Bluetooth devices. Distracted driving can cause a traffic accident and lead to personal injury or death.
- Never dial a phone number or pick up your mobile phone while driving. Use of a mobile phone may distract your attention, making it difficult to recognize external conditions and reducing the ability to cope with unexpected situations, which may lead to an accident. If necessary, use the Bluetooth Handsfree feature to make calls and keep the call as short as possible.

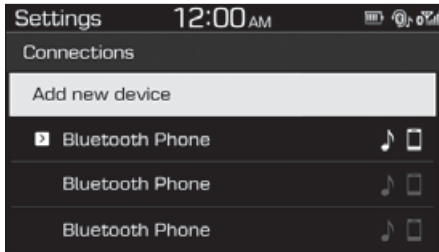
NOTICE

- You cannot access the Phone screen if there is no connected mobile phone. To use the Bluetooth phone function, connect a mobile phone to the system.
- The Bluetooth Handsfree function may not work when you are passing out of the cellular service coverage area, such as when you are in a tunnel, underground, or in a mountainous area.
- Call quality may be degraded in the following environments:
 - The reception of the mobile phone is poor
 - The inside of the vehicle is noisy
 - The mobile phone is placed near metallic objects, such as a beverage can
- Depending on the connected mobile phone, the volume and sound quality of the Bluetooth Handsfree may vary.

Making a call

If your mobile phone is connected to the system, you can make a call by selecting a name from your call history or contacts list.

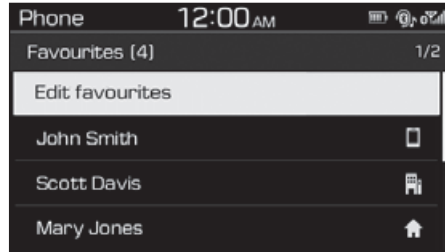
1. On the control panel, press the **[PHONE]** button.
 - Alternatively, press the Call/Answer button on the steering wheel.
2. If you have multiple paired mobile devices, select a mobile phone from your list of paired devices.



3. Select a phone number.
 - To select a phone number from your favourites list, select **Favourites**.
 - To select a phone number from your call history, select **Call history**.
 - To select a phone number from your contacts list that downloaded from the connected mobile phone, select **Contacts**.
4. To end the call, press the **[2]** button on the control panel to select **End**.
 - Alternatively, press the Call end button on the steering wheel.

Using the favourites list

1. From the Phone screen, press the **[1]** button to select **Favourites**.
2. Turn the **[TUNE]** knob to select the desired contact, and then press the knob to make a phone call.



Press the **[MENU]** button on the control panel to access the following a menu option:

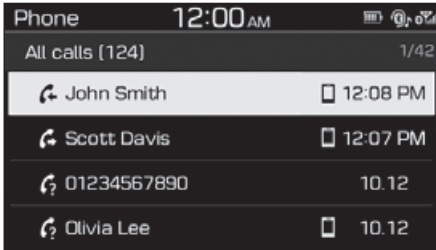
- **Delete:** Delete favourites items.

NOTICE

- **You can register up to 20 favourites for each device.**
- **You must first download the contacts to the system to register favourites.**
- **The favourites list saved on the mobile phone is not downloaded to the system.**
- **Even if the contact information on the mobile phone is edited, the favourites on the system are not automatically edited. Delete and add the item to favourites again.**
- **When you connect a new mobile phone, your favourites set for the previous mobile phone will not be displayed, but they will remain in your system until you delete the previous phone from the device list.**

Using your call history

1. From the Phone screen, press the [2] button to select **Call history**.
2. Turn the [TUNE] knob to select the desired entry, and then press the knob to make a phone call.



Press the [MENU] button on the control panel to access the following menu options:

- **All calls:** View all call records.
- **Missed calls:** View only missed calls.
- **Dialled calls:** View only dialled calls.
- **Received calls:** View only received calls.
- **Download:** Download your call history.

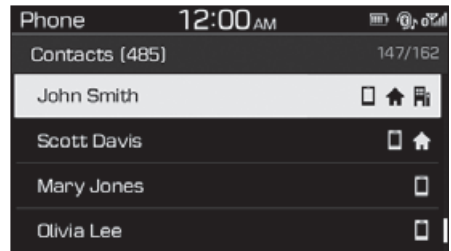
NOTICE

- **Some mobile phones may not support the download function.**
- **The call history is accessed only when the mobile phone is connected to the system.**
- **Calls from restricted IDs are not saved on the call history list.**
- **Up to 50 call records will be downloaded per individual list.**
- **Call duration and time information will not be displayed on the system screen.**

- **Permission is required to download your call history from the mobile phone. When you attempt to download data, you may need to permit the download on the mobile phone. If the download fails, check the mobile phone screen for any notification or the mobile phone's permission setting.**
- **When you download your call history, any old data will be deleted.**

Using the contacts list

1. From the Phone screen, press the [3] button to select **Contacts**.
2. Turn the [TUNE] knob to select the desired group of alphanumeric characters, and then press the knob.
3. Turn the [TUNE] knob to select the desired contact, and then press the knob to make a phone call.



Press the [MENU] button on the control panel to access the following a menu option:

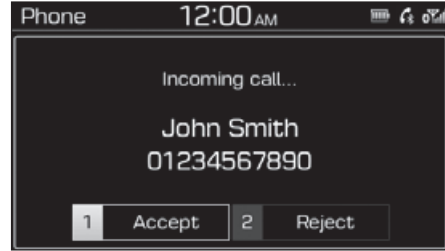
- **Download:** Download your mobile phone contacts.

NOTICE

- **Contacts can be downloaded only from the currently connected Bluetooth device.**
- **Contacts can be viewed only when the Bluetooth device is connected.**
- **Only contacts in the supported 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 downloaded from your device.**
- **Some mobile phones may not support the download function.**
- **Depending on the system's specifications, some of the downloaded contacts may be lost.**
- **Contacts stored both in the phone and in the SIM card are downloaded. With some mobile phones, contacts in the SIM card may not be downloaded.**
- **Special characters and figures used in the contact name may not be displayed properly.**
- **Permission is required to download contacts from the mobile phone. When you attempt to download data, you may need to permit the download on the mobile phone. If the download fails, check the mobile phone screen for any notification or the mobile phone's permission setting.**
- **Depending on the mobile phone type or status, downloading may take longer.**
- **When you download your contacts, any old data will be deleted.**
- **You cannot edit or delete your contacts on the system.**
- **When you connect a new mobile phone, your contacts downloaded from the previous mobile phone will not be displayed, but they will remain in your system until you delete the previous phone from the device list.**

Answering calls

When a call comes in, a notification pop-up window of the incoming call appears on the system screen.



To answer the call, press the [1] button on the control panel to select **Accept**.

- Alternatively, press the Call/Answer button on the steering wheel.

To reject the call, press the [2] button on the control panel to select **Reject**.

- Alternatively, press the Call end button on the steering wheel.

NOTICE

- **Depending on the mobile phone type, call rejection may not be supported.**
- **Once your mobile phone is connected to the system, the call sound may be output through the vehicle's speakers even after you exit the vehicle if the phone is within the connection range. To end the connection, disconnect the device from the system or deactivate Bluetooth on the device.**

Using options during a call

During a call, you will see the call screen shown below. Press a button to perform the function you want.



To switch the call to your mobile phone, press the [1] button on the control panel to select **Private**.

- Alternatively, press and hold the Call/Answer button on the steering wheel.

To end the call, press the [2] button on the control panel to select **End**.

- Alternatively, press the Call end button on the steering wheel.

Press the [MENU] button on the control panel to access the following a menu option:

- **Microphone Volume:** Adjust the microphone volume or turn off the microphone so the other party cannot hear you.

NOTICE

- **If the caller information is saved in your contacts list, the caller's name and phone number will be displayed. If the caller information is not saved in your contacts list, only the caller's phone number will be displayed.**
- **You cannot switch to any other screen, such as the audio screen or the settings screen, during a Bluetooth call.**
- **Depending on the mobile phone type, call quality may vary. On some phones, your voice may be less audible to the other party.**
- **Depending on the mobile phone type, the phone number may not be displayed.**
- **Depending on the mobile phone type, the call switching function may not be supported.**

SETUP

Display

You can change the settings related to the system display.

On the control panel, press the **[SETUP/CLOCK] ► [1]** buttons to select **Display**.

- **Dimming mode:** Set the screen brightness to be adjusted automatically according to the headlight use or set the screen to stay bright or dark continuously.
- **Brightness:** Adjust the brightness for the day or night mode according to your setting in the **Dimming mode** option.
- **Screensaver:** Select a screen saver option to be displayed when the system is turned off.
- **Scroll text:** Set to scroll text when information text is too long to display all on the screen.

NOTICE

The text scroll function is only available in the following situation:

- When displaying main screen in the USB/iPod/Bluetooth audio and radio/DAB modes
- When displaying list screen in the USB/iPod/Bluetooth audio, radio/DAB and phone modes

Sound

You can change the settings related to sounds, such as location where sound will be concentrated and the output level for each range.

On the control panel, press the **[SETUP/CLOCK] ► [2]** buttons to select **Sound**.

- **Position:** Select a location where sound will be concentrated in the vehicle. Select **Fade** or **Balance**, turn the **[TUNE]** knob to select the desired position, and then press the knob. To set sound to be centred in the vehicle, select **Centre**.
- **Equaliser:** Adjust the output level for each sound tone mode.
- **Speed dependent volume control:** Set the volume to be adjusted automatically according to your driving speed.
- **Rear parking sensors prioritised:** Set to decrease the audio volume to hear a reverse warning prior to other sounds while reversing your vehicle.

NOTICE

- Depending on vehicle models or specifications, available options may vary.
- Depending on the system or amplifier specifications applied to your vehicle, available options may vary.

Date/Time

You can change the date and time that are shown on the system display.

On the control panel, press the **[SETUP/CLOCK] ► [3]** buttons to select **Date/Time**.

- **Set date:** Set date to display on the system display.
- **Set time:** Set time to display on the system display.
- **Time format:** Select to display time in the 12 hour format or the 24 hour format.

Bluetooth

You can change the settings for Bluetooth connections.

On the control panel, press the **[SETUP/CLOCK] ► [4]** buttons to select **Bluetooth**.

- **Connections:** Pair new Bluetooth devices with your system, or connect or disconnect a paired device. You can also delete paired devices.
- **Auto connection priority:** Select a paired device to connect to your system automatically when it turns on.
- **Update contacts:** Download the contacts list from the connected mobile phone.
- **Bluetooth voice guidance:** Turn on or off the voice guidance for Bluetooth pairing, connection, and errors.

NOTICE

- **If no Bluetooth device is connected, the Update contacts menu is disabled.**
- **If the system language is selected to Slovakian or Hungarian, Bluetooth voice guidance menu is disabled.**

System

You can change the display language or initialise system settings.

On the control panel, press the **[SETUP/CLOCK] ► [5]** buttons to select **System**.

- **Language:** Change the display language.
- **Default:** Reset your system settings to the default values. All user data stored in the system will also be deleted.

PAN-EUROPEAN ECALL (IF EQUIPPED)

The Pan-European eCall system is an automatic emergency call service made in event of a traffic accident or other accidents on the roads.

SOS

Driver or passenger manually can make an emergency call in the single duty dispatch service, by pressing SOS button to call the necessary emergency services.

- Stops sound and SOS is displayed on screen.

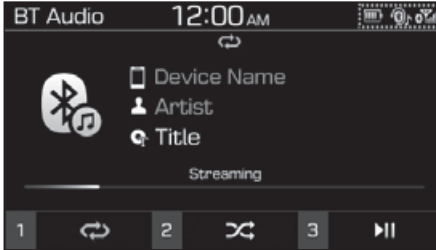
NOTICE

- **For more information, refer to the “Emergency situations” in manual.**
- **Depending on your region, the service may not be supported.**
- **Depending on your region or vehicle model, the name of the button may vary.**

SYSTEM STATUS ICONS

Status icons appear at the top of the screen to display the current system status.

Familiarise yourself with the status icons that appear when you perform certain actions or functions and their meanings.



Mute

Icon	Description
	Audio muted

Bluetooth

Icon	Description
	Battery level of connected Bluetooth device
	Mobile phone connected via Bluetooth
	Audio device connected via Bluetooth
	Mobile phone and audio device connected via Bluetooth
	Bluetooth call in progress
	Microphone turned off during Bluetooth call
	Downloading call history from a mobile phone connected via Bluetooth to the system
	Downloading contacts from a mobile phone connected via Bluetooth to the system

Signal strength

Icon	Description
	Signal strength of the mobile phone connected via Bluetooth

NOTICE

- The battery level displayed on the screen may differ from the battery level displayed on the connected device.
- The signal strength displayed on the screen may differ from the signal strength displayed on the connected mobile phone.
- Depending on vehicle models and specifications, some status icons may not be displayed.

INFOTAINMENT SYSTEM SPECIFICATIONS

USB

Supported audio formats

- Audio file specification
 - WAVEform audio format
 - MPEG1/2/2.5 Audio Layer3
 - Windows Media Audio Ver 7.X/8.X
- Bit rates
 - MPEG1 (Layer3):
32/40/48/56/64/80/96/112/128/160/192/224/256/320 kbps
 - MPEG2 (Layer3):
8/16/24/32/40/48/56/64/80/96/112/128/144/160 kbps
 - MPEG2.5 (Layer3):
8/16/24/32/40/48/56/64/80/96/112/128/144/160 kbps
 - WMA (High Range):
48/64/80/96/128/160/192 kbps
- Bits Per Sample
 - WAV (PCM(Stereo)): 24 bit
 - WAV (IMA ADPCM): 4 bit
 - WAV (MS ADPCM): 4 bit
- Sampling frequency
 - MPEG1: 44100/48000/32000 Hz
 - MPEG2: 22050/24000/16000 Hz
 - MPEG2.5: 11025/12000/8000 Hz
 - WMA: 32000/44100/48000 Hz
 - WAV: 44100/48000 Hz
- Maximum number of directory layers:
No limitation
- Maximum length of folder names
(Based on Unicode): 31 English or Korean characters
- Maximum length of file names (Based on Unicode): 63 English or Korean characters
- The scroll feature can be used to display file and folder names that are too long to display on the screen.

- Supported characters for folder/ file names (Unicode support): 2,604 Korean characters, 94 alphanumeric characters, 4,888 Chinese characters in common use, 986 special characters
- Maximum number of folders: 2,000
- Maximum number of files: 6,000

NOTICE

- **Files that are not in a supported format may not be recognised or played, or information about them, such as the file name, may not be displayed properly.**
- **Only files with .mp3/.wma/.wav extensions can be recognised by the system. If the file is not in supported format, change the file format by using the latest encoding software.**
- **The device will not support files locked by DRM (Digital Rights Management).**
- **For MP3/WMA compression files and WAV file, differences in sound quality will occur depending on the bitrate. (Music files with a higher bitrate have a better sound quality.)**
- **Japanese or Simplified Chinese characters in folder or file names may not be displayed properly.**

Supported USB storage devices

- Byte/Sector: 64 kbyte or less
- Format system: FAT12/16/32 (recommended)
- Maximum device size: 32 GB

NOTICE

- **Operation is guaranteed only for a metal cover type USB storage device with a plug type connector.**
 - **USB storage devices with a plastic plug may not be recognised.**
 - **USB storage devices in memory card types, such as CF card or SD cards, may not be recognised.**
- **USB hard disk drives may not be recognised.**
- **When you use a large capacity USB storage device with multiple logical drives, only files stored on the first drive will be recognised.**
- **If an application program is loaded on a USB storage device, the corresponding media files may not play.**
- **Use USB 2.0 devices for better compatibility.**

Bluetooth

- Bluetooth Power Class 2: -6 to 4 dBm
- Aerial power: Max 3 mW
- Frequency range: 2400 to 2483.5 MHz
- Bluetooth patch RAM software version: 1

TRADEMARKS

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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 licence.



- Apple®, iPad®, iPad mini™, iPhone®, iPod®, iPod classic®, iPod nano®, iPod touch®, and iTunes® are a registered trademark of Apple Inc.

DECLARATION OF CONFORMITY

CE

EU Declaration of Conformity		HYUNDAI MOBIS	
Product details			
Product	Car Audio System		
Model	ACB119EE, ACB109KUS, ACB109EE, ACB109EG		
We hereby declare, that the product above is in compliance with the essential requirements of the Directive 2014/53/EU by application of			
Applied Standards			
Article 3.2 Radio	EN 300 328 V2.2.2, EN 303 345-1 V1.1.1, EN 303 345-2 V1.1.1, Draft EN 303 345-3 V1.1.0		
Article 3.1b EMC	EN 301 489-1 V2.2.3, Draft EN 301 489-17 V3.2.2 EN 55032:2015, EN 55035:2017		
Article 3.1a Safety, Health	EN 60065:2014/A11:2017, EN 62311:2008		
Manufacturer		Representative in the EU	
HYUNDAI MOBIS Co., Ltd. 201, Teheran-ro, Gangnam-gu, Seoul, 06141, Korea Tel: +82-31-260-2707		MOBIS Parts Europe N.V. Wilhelm-Fay-Strasse 51, Frankfurt Main, 65936, Germany Tel: +49-69-85096-5011	
Notified Body		Signed By July 14, 2020	
TÜV SÜD DANMARK ApS Strandvejen 125 2900 Hellerup, Denmark Notified Body Identification 2443		This declaration of conformity is issued under the sole responsibility of the manufacturer.	
Reference	DK-RED001707 X01		Seunghoon Choe Representative Hyundai MOBIS Co., Ltd.
Additional information			
HW - LD SW - OL_HEV_EUR.001			

NCC

根據NCC低功率電波輻射性電機管理辦法 規定:

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。

According to NCC low-power radio frequency devices technical regulations:

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 interfere a legal communication, if an interference is found, the service will be suspended until improvement is made and the interference no longer exists.

BSMI

設備名稱：汽車音響 Equipment name		· 型號 (型式) : ACB10J9EG Type designation (Type)				
單元 Unit	限用物質及其化學符號 Restricted substances and its chemical symbols					
	鉛Lead (Pb)	汞Mercury (Hg)	鎘Cadmium (Cd)	六價鉻 Hexavalent chromium (Cr ⁶⁺)	多溴聯苯 Polybrominated biphenyls (PBB)	多溴二苯醚 Polybrominated diphenyl ethers (PBDE)
外殼	○	○	○	○	○	○
顯示板	○	○	○	○	○	○
電路板	○	○	○	○	○	○
配件(螺絲、按鈕、膠帶)	○	○	○	○	○	○
<p>備考1. “超出0.1 wt %”及“超出0.01 wt %”係指限用物質之百分比含量超出百分比含量基值。</p> <p>Note 1 : “Exceeding 0.1 wt %” and “exceeding 0.01 wt %” indicate that the percentage content of the restricted substance exceeds the reference percentage value of presence condition.</p> <p>備考2. “○”係指該項限用物質之百分比含量未超出百分比含量基準值。</p> <p>Note 2 : “○” indicates that the percentage content of the restricted substance does not exceed the percentage of reference value of presence.</p> <p>備考3. “-”係指該項限用物質為排除項目。</p> <p>Note 3 : The “-” indicates that the restricted substance corresponds to the exemption.</p>						

UkrSEPRO

Category	Item	Specification
Manufacturer		HYUNDAI MOBIS Co., Ltd. 203, Teheran-ro, Gangnam-gu, Seoul, 06141, Korea
Bluetooth	Frequency range	2400 to 2483.5 MHz
	Supported Bluetooth specification	4.1
	Supported profile	HFP (1.7), A2DP (1.3), AVRCP (1.6), PBAP (1.2)
	Aerial power	2.5 mW (maximum)
	Number of channels	79
	Bluetooth patch RAM software version	1

TRA

OMAN-TRA

D172249

TRA/TA-R/5089/18

NBTC



เครื่องวิทยุคมนาคมนี้ ได้รับยกเว้น ไม่ต้องได้รับใบอนุญาตให้มี ใช้ซึ่งเครื่องวิทยุคมนาคม หรือตั้งสถานีวิทยุคมนาคมตามประกาศ กสทช. เรื่อง เครื่องวิทยุคมนาคม และสถานีวิทยุคมนาคมที่ได้รับยกเว้นไม่ต้องได้รับใบอนุญาตวิทยุคมนาคมตามพระราชบัญญัติวิทยุคมนาคม พ.ศ. 2498



nab. | โทรคมนาคม

ถ้ากับลูกค้าฟอรัมออนไลน์

Call Center 1200 (InSWIS)

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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 an authorized HYUNDAI dealer.

Do not run the engine in an enclosed area.

Letting the engine idle in your garage, even with the garage door open, is a hazardous practice. Run the engine only long enough to start the engine and to move the vehicle out of the garage.

Avoid idling the engine for prolonged periods with people inside the vehicle.

If it is necessary to idle the engine for a prolonged period with people inside the vehicle, be sure to do so only in an open area with the air intake set at “Fresh” and fan control set to high so fresh air is drawn into the interior.

Keep the air intakes clear.

To assure proper operation of the ventilation system, keep the ventilation air intakes located in front of the windshield clear of snow, ice, leaves, or other obstructions.

If you must drive with the 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 DRIVING

Before entering the vehicle

- Be sure all windows, outside mirror(s), and outside lights are clean and unobstructed.
- Remove frost, snow, or ice.
- Visually check the tires for uneven wear and damage.
- Check under the vehicle for any sign of leaks.
- Be sure there are no obstacles behind you if you intend to back up.

Before starting

- Make sure the hood, the tailgate, and the doors are securely closed and locked.
- Adjust the position of the seat and steering wheel.
- Adjust the inside and outside rearview mirrors.
- Verify all the lights work.
- Fasten your seat belt. Check that all passengers have fastened their seat 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 information, refer to “Seat Belts” in chapter 2.
- Always drive defensively. Assume other drivers or pedestrians may be careless and make mistakes.
- Stay focused on the task of driving. Driver distraction can cause accidents.
- Leave plenty of space between you and the vehicle in front of you.



WARNING

NEVER drink or take drugs and drive.

Drinking or taking drugs and driving is dangerous and may result in an accident and SERIOUS INJURY or DEATH.

Drunk driving is the number one contributor to the highway death toll each year. Even a small amount of alcohol will affect your reflexes, perceptions and judgment. Just one drink can reduce your ability to respond to changing conditions and emergencies and your reaction time gets worse with each additional drink.

Driving while under the influence of drugs is as dangerous or more dangerous than driving under the influence of alcohol.

You are much more likely to have a serious accident if you drink or take drugs and drive. If you are drinking or taking drugs, don't drive. Do not ride with a driver who has been drinking or taking drugs. Choose a designated driver or call a taxi.

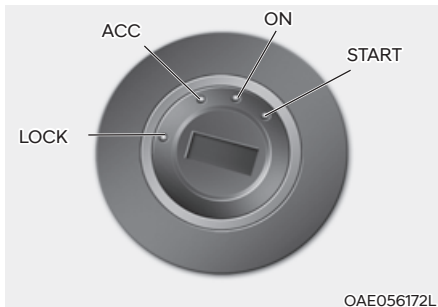
IGNITION SWITCH

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, while the vehicle is in motion. The presence of your hand or arm in this area may cause a loss of vehicle control resulting in an accident.

Key ignition switch (if equipped)



OAE056172L

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 while 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 (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

Switch Position	Action	Notes
LOCK	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. The ignition key can be removed in the LOCK position. The steering wheel locks to protect the vehicle from theft. (if equipped)	
ACC	Some electrical accessories are usable. The steering wheel unlocks.	If difficulty is experienced turning the ignition switch to the ACC position, turn the key while turning the steering wheel right and left to release.
ON	This is the normal key position when the engine has started. All features and accessories are usable. The warning lights can be checked when you turn the ignition switch from ACC to ON.	Do not leave the ignition switch in the ON position when the engine is not running to prevent the battery from discharging.
START	To start the engine, turn the ignition switch to the START position. The switch returns to the ON position when you let go of the key.	The engine will crank until you release the key.

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.**

Starting the gasoline engine

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 intelligent manual transmission :

1. Make sure the parking brake is applied.
2. Depress the brake pedal fully and shift the transmission into Neutral.
3. Keep the brake pedal depressed while turning the ignition switch to the start position. If you turn the ignition switch to the start position without depressing the brake pedal, the engine will not start.

Vehicle with dual clutch transmission / intelligent variable 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.



Information

- **Do not wait for the engine to warm up while the vehicle remains stationary. Start driving at moderate engine speeds. (Steep accelerating and decelerating should be avoided.)**
- **Always start the vehicle with your foot on the brake pedal. Do not depress the accelerator while starting the vehicle. Do not race the engine while warming it up.**

Starting the diesel engine

To start the diesel engine when the engine is cold, it has to be pre-heated and then it has to be warmed up, before starting to drive.

Vehicle with intelligent manual transmission :

1. Make sure the parking brake is applied.
2. Depress the brake pedal fully and shift the transmission into Neutral.
3. Keep the brake pedal depressed while turning the ignition switch to the start position. If you turn the ignition switch to the start position without depressing the brake pedal, the engine will not start.

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 ON position to pre-heat the engine. The glow indicator light (🔦) will illuminate.
5. When the glow indicator light (🔦) goes out, turn the key ignition switch to the START position. Hold the key (maximum of 10 seconds) until the engine starts and release it.

NOTICE

If the engine does not start within 10 seconds after preheating is completed, turn the ignition switch once more to the LOCK position and wait for 10 seconds. Then turn the ignition switch to the ON position in order to preheat the engine again.

Starting and stopping the engine for turbocharger intercooler

1. Do not race or accelerate the engine immediately after starting the engine. If the engine is cold, idle for several seconds before sufficient lubrication is ensured in the turbocharger.
2. After high speed or extended driving that requires heavy engine load, idle the engine about 1 minute before turning the engine off. This idle time will allow the turbocharger to cool prior to shutting the engine off.

NOTICE

Do not turn off the engine immediately after it has been subjected to a heavy load. Doing so may cause severe damage to the engine or turbocharger.

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 while 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.**

Engine Start/Stop button (if equipped)



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 while 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 the P (Park) position, set the parking brake, press the Engine Start/ Stop button to the OFF position, and take the Smart Key with you. Unexpected vehicle movement may occur if these precautions are not followed.





Engine Stop/Start button positions

- Vehicle with Manual Transmission/Intelligent Manual Transmission (iMT)

Button Position	Action	Notes
<p>OFF</p> 	<p>To turn off the engine, stop the vehicle and then press the Engine Start/Stop button. 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>ACC</p> 	<p>Press the Engine Start/Stop button when the button is in the OFF position without depressing the clutch pedal.</p> <p>Some electrical accessories are usable. 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 while turning the steering wheel right and left to release.</p>
<p>ON</p> 	<p>Press the Engine Start/Stop button while it is in the ACC position without depressing the clutch pedal.</p> <p>The warning lights can be checked before the engine is started.</p>	<p>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>START</p> 	<p>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>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: OFF → ACC → ON → OFF or ACC</p>

Engine Stop/Start button positions

- Vehicle with Dual Clutch Transmission/Intelligent Variable Transmission (iVT)


Button Position	Action	Notes
OFF 	<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. 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>
ACC 	<p>Press the Engine Start/Stop button when the button is in the OFF position without depressing the brake pedal. Some electrical accessories are usable. 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. If the steering wheel doesn't unlock properly, the Engine Start/Stop button will not work. Press the Engine Start/Stop button while turning the steering wheel right and left to release tension.</p>
ON 	<p>Press the Engine Start/Stop button while it is in the ACC position without depressing the brake pedal. The warning lights can be checked before the engine is started.</p>	<p>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>
START 	<p>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. For your safety, start the engine with the shift lever in the P (Park) position.</p>	<p>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: OFF → ACC → ON → OFF or ACC</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.**

Starting the gasoline engine

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 Intelligent Manual Transmission :

1. Make sure the parking brake is applied.
2. Depress the clutch pedal fully and shift the transmission into Neutral.
3. Keep the clutch pedal and brake pedal depressed while pressing the ENGINE START/STOP button to the START position.

If you press the ENGINE START/STOP button to the START position without depressing the brake pedal and clutch pedal, the engine will not start.

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.

Information

- **Do not wait for the engine to warm up while the vehicle remains stationary. Start driving at moderate engine speeds. Steep accelerating and decelerating should be avoided.**
- **Always start the vehicle with your foot on the brake pedal. Do not depress the accelerator while starting the vehicle. Do not race the engine while warming it up.**

Starting the diesel engine

To start the diesel engine when the engine is cold, it has to be pre-heated and then it has to be warmed up, before starting to drive.

Vehicle with Intelligent Manual Transmission :

1. Make sure the parking brake is applied.
2. Depress the clutch pedal fully and shift the transmission into Neutral.
3. Keep the clutch pedal and brake pedal depressed while pressing the ENGINE START/STOP button to the START position.

If you press the ENGINE START/STOP button to the START position without depressing the brake pedal and clutch pedal, the engine will not start.

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.
6. Continue depressing the brake pedal until the glow indicator light (⏻) goes out.
7. When the glow indicator light (⏻) goes out, the engine will start.

Information

If the Engine Start/Stop button is pressed while the engine is pre-heating, the engine may start.

Starting and stopping the engine for turbocharger intercooler

1. Do not race or accelerate the engine immediately after starting the engine.
If the engine is cold, idle for several seconds before sufficient lubrication is ensured in the turbocharger.
2. After high speed or extended driving that requires heavy engine load, idle the engine about 1 minute before turning the engine off. This idle time will allow the turbocharger to cool prior to shutting the engine off.

NOTICE

Do not turn off the engine immediately after it has been subjected to a heavy load. Doing so may cause severe damage to the engine or turbocharger.

NOTICE

To prevent damage to the vehicle:

- If the engine stalls while you are in motion, do not attempt to move the shift lever to the P (Park) position.

If traffic and road conditions permit, you may put the shift lever in the N (Neutral) position while the vehicle is still moving and press the Engine Start/Stop button in an attempt to restart the engine.

- Do not push or tow your vehicle to start the engine.

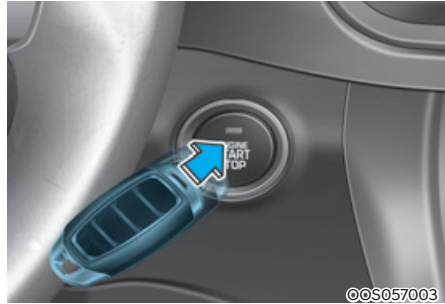
NOTICE

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.

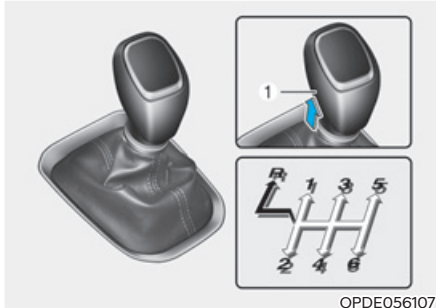


i Information

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.

MANUAL TRANSMISSION (IF EQUIPPED)

Manual transmission operation



OPDE056107

- ⇒ The shift lever can be moved without pressing the button (1).
- ➔ The button (1) must be pressed while moving the shift lever.

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.
- Stopping the engine
 - Stop the vehicle safely and depress the brake pedal and the clutch pedal. Then shift into N(Neutral) gear and turn off the engine.

When releasing the clutch pedal, release it slowly. The clutch pedal should always be released while driving.

NOTICE

To prevent unnecessary wear or damage to the clutch:

- Do not rest your foot on the clutch pedal while driving.
- Do not hold the vehicle with the clutch on an incline, while waiting for the traffic light, etc.
- Always depress the clutch pedal down fully to prevent noise or damage.
- 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.
- Make sure to depress the clutch pedal until the engine starts completely. If you release the clutch pedal before the engine starts completely, the engine may stop.



WARNING

- In case that there is not equipped with an ignition lock switch, if starting engine in below conditions, the vehicle suddenly may move.
 - the parking brake is released.
 - the shift lever is not in N(neutral) position.
 - clutch pedal is not depressed fully.

Downshifting

Down shift to a lower gear when slowing down in heavy traffic or driving up a steep hill to prevent high engine loads.

Also, downshifting reduces the chance of stalling and helps to reaccelerate the vehicle when you need to increase your speed.

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 tires to slip and may result in an accident.



WARNING

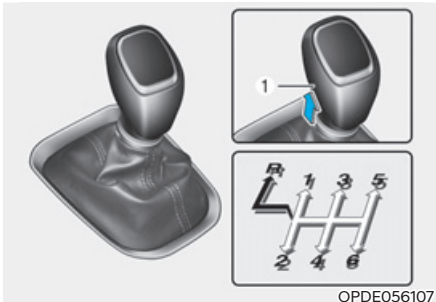
To reduce the risk of SERIOUS INJURY or DEATH:

- **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.**
- **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.**

INTELLIGENT MANUAL TRANSMISSION (IF EQUIPPED)

Intelligent Manual Transmission (iMT) system use E-Clutch (Electronic Clutch) technology. Using the E-Clutch, the vehicle can cut engine drive off without pressing the clutch pedal by driver. The E-Clutch is controlled by an actuator that assists the driver in changing gear.

Intelligent Manual Transmission operation



OPDE056107

- ⇒ The shift lever can be moved without pressing the button (1).
- ➔ The button (1) must be pressed while moving the shift lever.

The Intelligent manual transmission has 6 forward gears. This shift pattern has 6 forward gears. This shift pattern is imprinted on the shift knob. The transmission is fully synchronized in all forward gears so shifting to either a higher or a lower gear is easily accomplished. Depress the clutch pedal down fully while shifting, then release it slowly. If your vehicle is equipped with an ignition lock switch, the engine will not start when starting the engine without depressing the brake pedal and clutch pedal. (if equipped)

The shift lever must be returned to the neutral position before shifting into R (Reverse). Push the button located immediately below the shift knob and pull the gearshift lever to the left sufficiently, and then shift into reverse (R) gear position. Make sure the vehicle is completely stopped before shifting into R (Reverse). Never operate the engine with the tachometer (RPM) in the red zone.

**CAUTION**

- When downshifting from fifth gear to fourth gear, caution should be taken not to inadvertently press the shift lever sideways in such a manner that the second gear is engaged. Such a drastic downshift may cause the engine speed to increase to the point that the tachometer will enter the red-zone. Such overrevving of the engine and transmission may possibly cause engine damage.
- Do not downshift more than 2 gears 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.
- During cold weather, shifting may be difficult until the transmission lubricant is warmed up. This is normal and not harmful to the transmission.
- If you've come to a complete stop and it's hard to shift into 1st or R(Reverse), leave the shift lever at N(Neutral) position and release the clutch. Press the clutch pedal back down, and then shift into 1st or R(Reverse) gear position.
- To avoid premature clutch wear and damage, do not drive with your foot resting on the clutch pedal. Also, don't use the clutch to hold the vehicle stopped on an uphill grade, while waiting for a traffic light, etc.
- Do not use the shift lever as a handrest during driving, as this can result in premature wear of the transmission shift forks.
- To prevent possible damage to the clutch system, do not start with the 2nd (second) gear engaged except when you start on a slippery road.

**WARNING**

- Before leaving the driver's seat, always set the parking brake fully and shut the engine off. Then make sure the transmission is shifted into 1st gear when the vehicle is parked on a level or uphill grade, and shifted into R (Reverse) on a downhill grade. Unexpected and sudden vehicle movement can occur if these precautions are not followed in the order identified.
- Do not use the engine brake (shifting from a high gear to lower gear) rapidly on slippery roads. The vehicle may slip causing an accident.

Using the clutch

The clutch should be pressed all the way to the floor before shifting, then released slowly. The clutch pedal should always be fully released while driving. Do not rest your foot on the clutch pedal while driving. This can cause unnecessary wear. Do not partially engage the clutch to hold the vehicle on an incline. This causes unnecessary wear. Use the foot brake or parking brake to hold the vehicle on an incline. Do not operate the clutch pedal rapidly and repeatedly.

**CAUTION**

When operating the clutch pedal, press the clutch pedal down fully. If you don't press the clutch pedal fully, the clutch may be damaged or noise may occur.

Downshifting

When you must slow down in heavy traffic or while driving up steep hills, downshift before the engine starts to labor. Downshifting reduces the chance of stalling and gives better acceleration when you again need to increase your speed. When the vehicle is traveling down steep hills, downshifting helps maintain safe speed and prolongs brake life.

Good driving practices

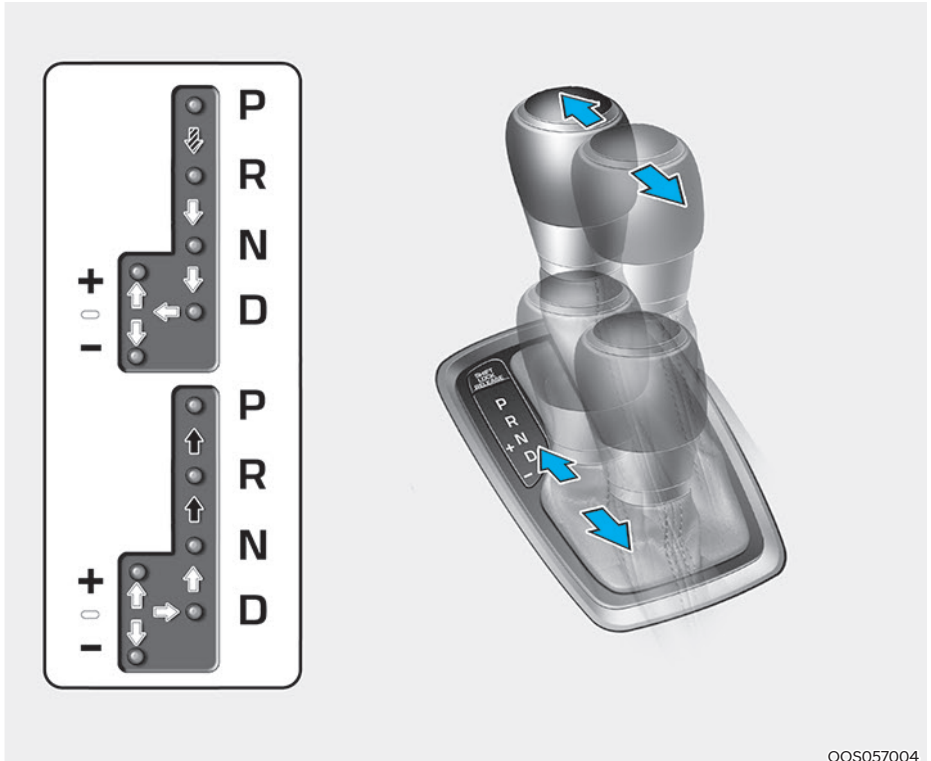
- Never take the vehicle out of gear and coast down a hill. This is extremely hazardous. Always leave the vehicle in gear.
- Don't "ride" the brakes. This can cause them to overheat and malfunction. Instead, when you are driving down a long hill, shift to a lower gear. When you do this, engine braking 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 attempt to shift into reverse. The transmission can be damaged if you do not.
- 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 the vehicle to go out of control.



WARNING

- **Always buckle-up! 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 oversteers 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.**
- **Never exceed posted speed limits.**

INTELLIGENT VARIABLE TRANSMISSION (IF EQUIPPED)



OOS057004

- Depress the brake pedal, press the shift button ahead of the shift lever, and then move shift lever.
- ➡ Press the shift button, then move shift lever.
- ⇨ Move shift lever.

Intelligent variable transmission operation

The Intelligent variable transmission has no actual fixed gears. The varying gear ratios are selected automatically, depending on the position of the shift lever, vehicle's speed and position of the accelerator pedal.



WARNING

To reduce the risk of serious injury or death:

- **ALWAYS** check the surrounding areas near your vehicle for people, especially children, before shifting a vehicle into D (Drive) or R (Reverse).
- Before leaving the driver's seat, always make sure the shift lever is in the P (Park) position, then set the parking brake, and place the ignition switch in the LOCK/OFF position. Unexpected and sudden vehicle movement can occur if these precautions are not followed.
- **Do not use engine braking (shifting from a high gear to lower gear) rapidly on slippery roads. The vehicle may slip causing an accident.**

The indicator in the instrument cluster displays the shift lever position when the ignition switch is in the ON position.

P (Park)

Always come to a complete stop before shifting into P (Park).

The shift lever must be in P (Park) before turning the engine off.



WARNING

- **Shifting into P (Park) while the vehicle is in motion may cause you to lose control of the vehicle.**
- **After the vehicle has stopped, always make sure the shift lever is in P (Park), apply the parking brake, and turn the engine off.**
- **Do not use the P (Park) position in place of the parking brake.**



Information

The RPM (revolutions per minute) may increase or decrease when performing the IVT self-diagnosis.

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 transaxle if you shift into R (Reverse) while 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.

Always depress the brake pedal when you are shifting from N (Neutral) to another gear.



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 could lose control of the vehicle and hit people or objects.

D (Drive)

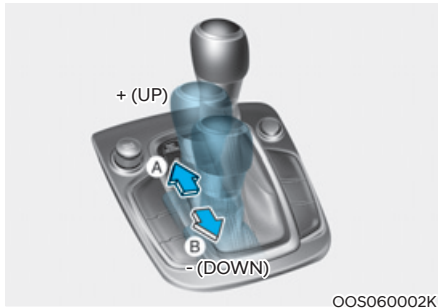
This is the normal forward driving position. The transaxle will automatically shift to the optimal gear ratio, providing better fuel efficiency and a smoother ride.

For extra power when passing another vehicle or driving uphill, depress the accelerator further until you feel the transmission downshift to a lower gear.

The DRIVE MODE switch, located on the shift lever console, allows the driver to switch from NORMAL mode to SPORT mode.

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

Manual shift mode



Whether the vehicle is stationary or in motion, Manual shift mode is selected by pushing the shift lever from the D (Drive) position into the manual gate. To return to D (Drive) range operation, push the shift lever back into the main gate.

In Manual shift mode, moving the shift lever backwards (B) and forwards (A) will allow you to select the desired range of gears for the current driving conditions.

- + (Up): Push the lever forward once to shift up one gear.
- (Down): Pull the lever backwards once to shift down one gear.

i Information

- **Only the four forward gears can be selected. To reverse or park the vehicle, move the shift lever to the R (Reverse) or P (Park) position as required.**
- **Downshifts are made automatically when the vehicle slows down. When the vehicle stops, 1st gear is automatically selected.**
- **When the engine RPM approaches the red zone the transaxle will upshift automatically.**

Shift-lock system

For your safety, the intelligent variable transmission (IVT) 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.

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. Carefully remove the cap (1) covering the shift-lock access hole.
4. Insert a tool (e.g. flathead screwdriver) into the access hole and press down on the tool.
5. Move the shift lever while holding down the screwdriver.
6. Remove the tool from the shift-lock release access hole then install the cap.
7. Depress the brake pedal, and then restart the engine.

If you need to use the shift-lock release, we recommend that the system be inspected by an authorized HYUNDAI dealer immediately.

Parking

Always come to a complete stop and continue to depress the brake pedal. Move the shift lever into the P (Park) position, apply the parking brake, and place the 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 (Reverse) or D (Drive).
- Do not move the shift lever to N (Neutral) when driving. Doing so may result in an accident because of a loss of engine braking and the transaxle could be damaged.
- Driving uphill or downhill, always shift to D (Drive) when driving forward or to R (Reverse) when driving backwards, and check the gear position indicated on the cluster before driving. If you drive in the opposite direction of the selected gear, the engine will turn off and a serious accident might be occurred due to the degraded brake performance.
- Do not drive with your foot resting on the brake pedal. Even light, but consistent pedal pressure can result in the brakes overheating, brake wear and possibly even brake failure.
- Depressing both accelerator and brake pedals at the same time can trigger logic for engine power reduction to assure vehicle deceleration. Vehicle acceleration will resume after the brake pedal is released.
- 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.

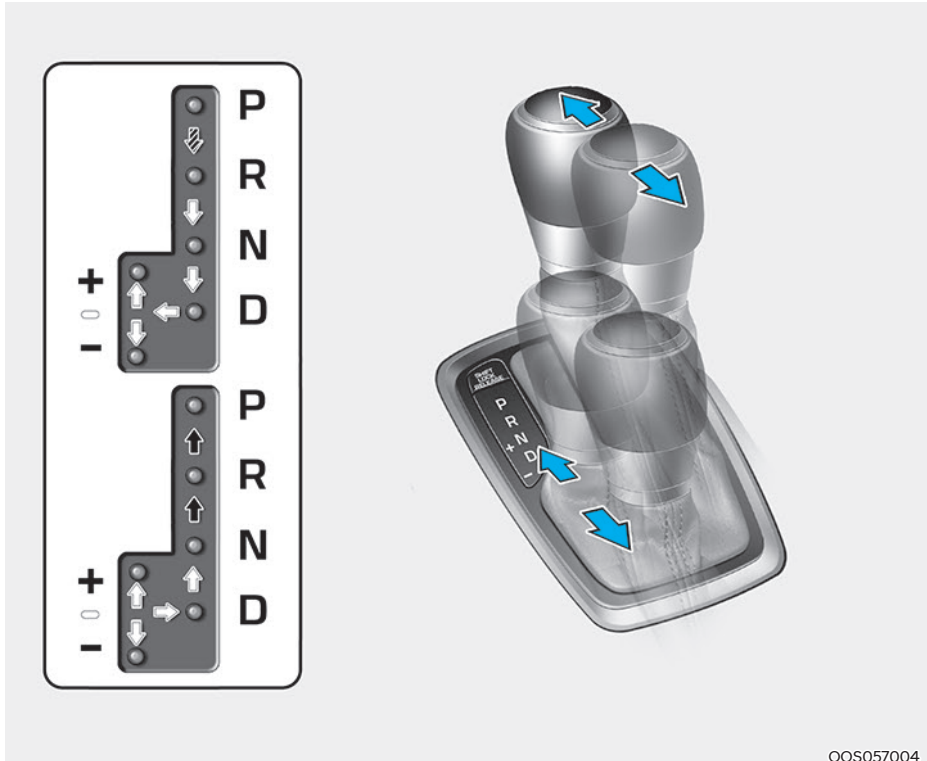


WARNING

To reduce the risk of **SERIOUS INJURY** or **DEATH**:

- **ALWAYS wear your seatbelt. In a collision, an unbelted occupant is significantly more likely to be seriously injured or killed than a properly belted occupant.**
- **Avoid high speeds when cornering or turning.**
- **Do not make quick steering wheel movements, such as sharp lane changes or fast, sharp turns.**
- **The risk of rollover is greatly increased if you lose control of your vehicle at highway speeds.**
- **Loss of control often occurs if two or more wheels drop off the roadway and the driver over steers to reenter the roadway.**
- **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.**

DUAL CLUTCH TRANSMISSION (IF EQUIPPED)



OOS057004

- Depress the brake pedal and press the shift button ahead of the shift lever while moving the shift lever.
- ➡ Press the shift button while moving the shift lever.
- ⇨ The shift lever can freely operate.

Dual clutch transmission operation

The dual clutch transmission has seven forward speeds and one reverse speed. The individual speeds are selected automatically when the shift lever is in the D (Drive) position.

- The dual clutch transmission can be thought of as an automatically shifting manual transmission. It gives the driving feel of a manual transmission, yet provides the ease of a fully automatic transmission.
- When D (Drive) is selected, the transmission will automatically shift through the gears similar to a conventional automatic transmission. Unlike a traditional automatic transmission, the gear shifting can sometimes be felt and heard as the actuators engage the clutches and the gears are selected.

- The dual clutch transmission incorporates a dry-type dual clutch mechanism, which allows for better acceleration performance and increased fuel efficiency while driving. But it differs from a conventional automatic transmission because it does not incorporate a torque converter. Instead, the transition from one gear to the next is managed by clutch slip, especially at lower speeds.

As a result, shifts are sometimes more noticeable, and a light vibration can be felt as the transmission shaft speed is matched with the engine shaft speed. This is a normal condition of the dual clutch transmission.

- The dry-type clutch transfers torque more directly and provides a direct-drive feeling which may feel different from a conventional automatic transmission. This may be more noticeable when launching the vehicle from a stop or when traveling at low, stop-and-go vehicle speeds.
- When rapidly accelerating from a lower vehicle speed, the engine RPM may increase dramatically as a result of clutch slip as the dual clutch transmission selects the correct gear. This is a normal condition.
- When accelerating from a stop on an incline, press the accelerator smoothly and gradually to avoid any shudder feeling or jerkiness.
- When traveling at a lower vehicle speed, if you release the accelerator pedal quickly, you may feel engine braking before the transmission changes gears. This engine braking feeling is similar to operating a manual transmission at low speed.
- When driving downhill, you may wish to move the gear shift lever to Manual Shift mode and 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.
- During the first 1,500 km (1000 miles), you may feel that the vehicle may not be smooth when accelerating at low speed. During this break-in period, the shift quality and performance of your new vehicle is continuously optimized.



WARNING

To reduce the risk of serious injury or death:

- **ALWAYS check the surrounding areas near your vehicle for people, especially children, before shifting a vehicle into D (Drive) or R (Reverse).**
- **Before leaving the driver's seat, always make sure the shift lever is in the P (Park) position, then set the parking brake, and place the ignition switch in the LOCK/OFF position. Unexpected and sudden vehicle movement can occur if these precautions are not followed.**
- **Do not use aggressive engine braking (shifting from a higher gear to a lower gear) on slippery roads. This could cause the tires to slip and may result in an accident.**

NOTICE

- **Always come to a complete stop before shifting into D (Drive) or R (Reverse).**
- **Do not put the shift lever in N (Neutral) while driving.**



WARNING

Due to transmission failure, you may not continue to drive and the position indicator and the position indicator (D, P) on the instrument cluster will blink. We recommend that you contact an authorized HYUNDAI dealer and have the system checked.

DCT warning messages

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

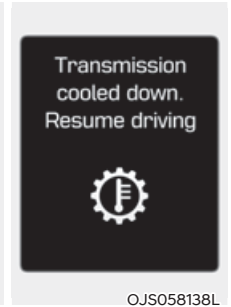
Driving up hills or on steep grades:

- To hold the vehicle on an incline use the foot brake or the parking brake.
- When in stop-and-go traffic on an incline, allow a gap to form ahead of you before moving the vehicle forward. Then hold the vehicle on the incline with the foot brake.
- If the vehicle is held or creeping forward on an incline by applying the accelerator pedal, 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

- 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 temp. 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, 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

- 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 (Trans cooled. 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 that you contact an authorized HYUNDAI dealer 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) while the vehicle is in motion may cause you to lose control of the vehicle.**
- **After the vehicle has stopped, always make sure the shift lever is in P (Park), apply the parking brake, and turn the engine off.**
- **When parking on an incline, place the shift lever in P (Park) and apply the parking brake to prevent the vehicle from rolling downhill.**
- **For safety, always engage the parking brake with the shift lever in the P (Park) position except for the case of emergency parking.**

R (Reverse)

Use this position to drive the vehicle backward.

NOTICE

Always come to a complete stop before shifting into or out of R (Reverse); you may damage the transmission if you shift into R (Reverse) while the vehicle is in motion.

N (Neutral)

The wheels and transmission are not engaged.

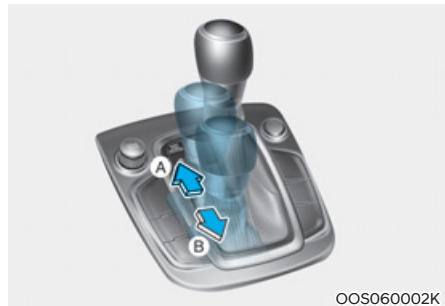
Use N (Neutral) if you need to restart a stalled engine, or if it is necessary to stop with the engine ON. Shift into P (Park) if you need to leave your vehicle for any reason.

Always depress the brake pedal when you are shifting from N (Neutral) to another gear.

D (Drive)

This is the normal driving position. The transmission will automatically shift through a 7-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).



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Manual shift mode

Whether the vehicle is stationary or in motion, manual shift mode is selected by pushing the shift lever from the D (Drive) position into the manual gate. To return to D (Drive) range operation, push the shift lever back into the main gate.

In manual shift mode, moving the shift lever backwards (B) and forwards (A) will allow you to make gearshifts rapidly.

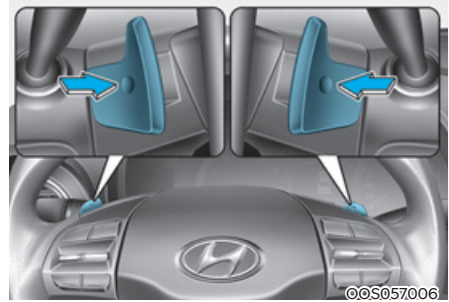
Up (+) : Push the lever forward once to shift up one gear.

Down (-) : Pull the lever backwards once to shift down one gear.

i Information

- Only the seven forward gears can be selected in Manual Shift Mode. To reverse or park the vehicle, move the shift lever to the R (Reverse) or P (Park) position as required.
- Downshifts are made automatically when the vehicle slows down. When the vehicle stops, 1st gear is automatically selected.
- When the engine RPM approaches the red zone the transmission will upshift automatically.
- 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.

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 3km/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 2 km/h, if you depress the accelerator pedal for more than 6 seconds (in the Normal mode) 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 releasing the paddle shifter, pull it for more than 1 second.

With the shift lever in the manual shift mode

Pull the [+ or -] paddle shifter once to shift up or down one gear.

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.

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. Carefully remove the cap (1) covering the shift-lock access hole.
4. Insert a tool (e.g. flathead screwdriver) into the access hole and press down on the tool.
5. Move the shift lever while holding down the screwdriver.
6. Remove the tool from the shift-lock release access hole then install the cap.
7. Depress the brake pedal, and then restart the engine.

If you need to use the shift-lock release, we recommend that the system be inspected by an authorized HYUNDAI dealer immediately.

Parking

Always come to a complete stop and continue to depress the brake pedal. Move the shift lever into the P (Park) position, apply the parking brake, and place the 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 (Reverse) or D (Drive).
- Do not move the shift lever to N (Neutral) when driving. Doing so may result in an accident because of a loss of engine braking and the transmission could be damaged.
- Driving uphill or downhill, always shift to D (Drive) when driving forward or to R (Reverse) when driving backwards, and check the gear position indicated on the cluster before driving. If you drive in the opposite direction of the selected gear, the engine will turn off and a serious accident might be occurred due to the degraded brake performance.
- Do not drive with your foot resting on the brake pedal. Even light, but consistent pedal pressure can result in the brakes overheating, brake wear and possibly even brake failure.
- 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**:

- **ALWAYS** wear your seat belt. In a collision, an unbelted occupant is significantly more likely to be seriously injured or killed than a properly belted occupant.
- Avoid high speeds when cornering or turning.
- Do not make quick steering wheel movements, such as sharp lane changes or fast, sharp turns.
- The risk of rollover is greatly increased if you lose control of your vehicle at highway speeds.
- Loss of control often occurs if two or more wheels drop off the roadway and the driver over steers to reenter the roadway.
- In the event your vehicle leaves the roadway, do not steer sharply. Instead, slow down before pulling back into the travel lanes.
- **HYUNDAI** recommends you follow all posted speed limits.



Information

- Kickdown Mechanism (if equipped)

Use the kickdown mechanism for maximum acceleration. Depress the accelerator pedal beyond the pressure point. The dual clutch transmission will shift to a lower gear depending on the engine speed.

BRAKING SYSTEM

Power brakes

Your vehicle has power-assisted brakes that adjust automatically through normal usage.

If the engine is not running or is turned off while driving, the power assist for the brakes will not work. You can still stop your vehicle by applying greater force to the brake pedal than typical. The stopping distance, however, will be longer than with power brakes.

When the 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.



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.**

- **Wet brakes may impair the vehicle's ability to safely slow down; the vehicle may also pull to one side when the brakes are applied. Applying the brakes lightly will indicate whether they have been affected in this way. Always test your brakes in this fashion after driving through deep water. To dry the brakes, lightly tap the brake pedal to heat up the brakes while maintaining a safe forward speed until brake performance returns to normal. Avoid driving at high speeds until the brakes function correctly.**

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.

Note that some driving conditions or climates may cause a brake squeal when you first apply (or lightly apply) the brakes. This is normal and does not indicate a problem with your brakes.

NOTICE

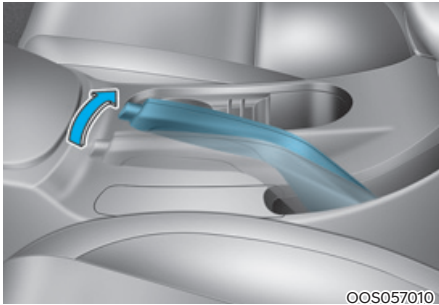
To avoid costly brake repairs, do not continue to drive with worn brake pads.



Information

Always replace brake pads as complete front or rear axle sets.

Parking brake (if equipped)

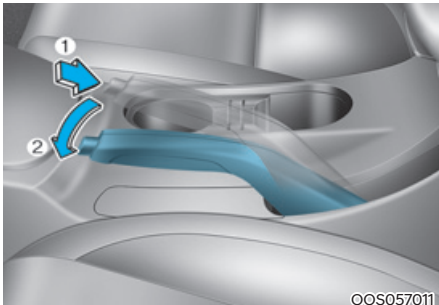


Always set the parking brake before leaving the vehicle, to apply:
Firmly depress the brake pedal.
Pull up the parking brake lever as far as possible.



WARNING

To reduce the risk of **SERIOUS INJURY** or **DEATH**, do not operate the parking brake while 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.
While 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 an authorized HYUNDAI dealer.



WARNING

- Whenever leaving the vehicle or parking, always come to a complete stop and continue to depress the brake pedal. Move the shift lever into the 1st gear (for manual transmission vehicle) or P (Park, for dual clutch transmission vehicle) position, 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 of 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.
- Only release the parking brake when you are seated inside the vehicle with your foot firmly on the brake pedal.

NOTICE

- Do not apply the accelerator pedal while the parking brake is engaged. If you depress the accelerator pedal with the parking brake engaged, 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 while 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 while operating the vehicle and only continue to drive the vehicle until you can reach a safe location.

Electronic Parking Brake (EPB) (if equipped)

Applying the parking brake



To apply EPB (Electronic Parking Brake):

1. Depress the brake pedal.
2. Pull up the EPB switch.

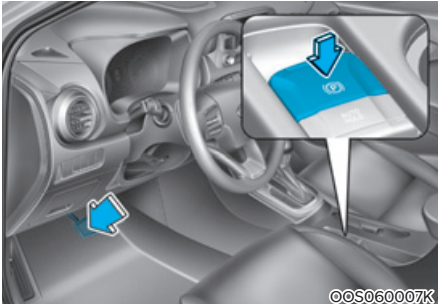
Make sure the Parking Brake Warning Light comes on.



WARNING

To reduce the risk of SERIOUS INJURY or DEATH, do not operate the EPB while the vehicle is moving except in an emergency situation. It could damage the brake system and lead to an accident.

Releasing the parking brake



To release EPB (Electronic Parking Brake):

- Place the ignition switch in the ON position.
- Depress the brake pedal.
- Press the EPB switch.

Make sure the Parking Brake Warning Light goes off.

To release EPB (Electronic Parking Brake) automatically:

- Shift lever in P (Park)
With the vehicle in the ready (🚗) mode, depress the brake pedal and shift out of P (Park) to R (Reverse) or D (Drive).
- Shift lever in N (Neutral)
With the vehicle in the ready (🚗) mode, depress the brake pedal and shift out of N (Neutral) to R (Reverse) or D (Drive).

- Satisfy the following conditions
 1. Ensure seat belts are fastened and the doors, hood and tailgate are closed.
 2. With the vehicle in the ready (🚗) mode, depress the brake pedal and shift out of P (Park) to R (Reverse), D (Drive) or Manual shift mode.
 3. Depress the accelerator pedal.

Make sure the Parking Brake Warning Light goes off.

i Information

- **For your safety, you can engage EPB even though the ignition switch is in the OFF position (only if battery power is available), but you cannot release it.**
- **For your safety, depress the brake pedal and release the parking brake manually with the EPB switch when you drive downhill or when backing up the vehicle.**

NOTICE

- **If the parking brake warning light is still on even though the EPB has been released, we recommend that you have the system checked by an authorized HYUNDAI dealer.**
- **Do not drive your vehicle with EPB applied. It may cause excessive brake pad and brake rotor wear.**

EPB (Electronic Parking Brake) may be automatically applied when:

- Requested by other systems
- The driver turns the vehicle off while Auto Hold is operating.

Warning messages



To release EPB, close the doors, hood and tailgate and fasten seatbelt

- If you try to drive with EPB applied, a warning will sound and a message will appear.
- If the driver's seat belt is unfastened and the engine hood or lift-gate is opened, a warning will sound and a message will appear.
- If there is a problem with the vehicle, a warning may sound and a message may appear.

If the situation occurs, depress the brake pedal and release EPB by pressing the EPB switch.



WARNING

- **Whenever leaving the vehicle or parking, always come to a complete stop and continue to depress the brake pedal.**

Move the shift lever into the P (Park) position, press the EPB switch, and set the ignition switch to the OFF position. Take the Key with you when exiting the vehicle.

Vehicles not fully engaged in P (Park) with the parking brake set are at risk for moving inadvertently and causing injury to yourself or others.

- **NEVER** allow anyone who is unfamiliar with the vehicle to touch the EPB switch. If EPB is released unintentionally, serious injury may occur.
- Only release EPB when you are seated inside the vehicle with your foot firmly on the brake pedal.

NOTICE

- **Do not apply the accelerator pedal while the parking brake is engaged. If you depress the accelerator pedal with EPB engaged, a warning will sound and a message will appear. Damage to the parking brake may occur.**
- **Driving with the parking brake on can overheat the braking system and cause premature wear or damage to brake parts. Make sure EPB is released and the Parking Brake Warning Light is off before driving.**



Information

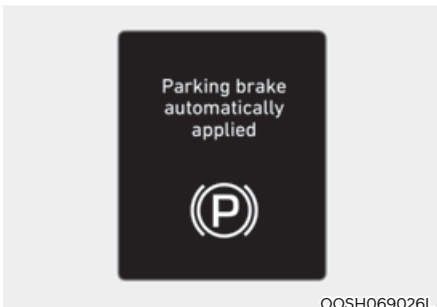
- **A clicking sound may be heard while operating or releasing the EPB. These conditions are normal and indicate that EPB is functioning properly.**
- **When leaving your keys with a parking attendant or assistant, make sure to inform him/her how to operate EPB.**



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Deactivating AUTO HOLD... Press brake pedal

When the conversion from Auto Hold to EPB is not working properly a warning will sound and a message will appear.



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Parking brake automatically applied

If EPB is applied while Auto Hold is activated, a warning will sound and a message will appear.

EPB malfunction indicator



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This warning light illuminates if the ignition switch is set to the ON position and goes off in approximately 3 seconds if the system is operating normally.

If the EPB malfunction indicator remains on, comes on while driving, or does not come on when the ignition switch is set to the ON position, this indicates that the EPB may have malfunctioned.

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

The EPB malfunction indicator may illuminate when the ESC indicator comes on to indicate that ESC is not working properly, but it does not indicate a malfunction of EPB.

NOTICE

- If the EPB warning light is still on, we recommend that you have the system checked by an authorized HYUNDAI dealer.
- If the parking brake warning light does not illuminate or blinks even though the EPB switch was pulled up, EPB may not be applied.
- If the parking brake warning light blinks when the EPB warning light is on, press the switch, and then pull it up. Repeat this one more time. If the EPB warning does not go off, we recommend that you have the system checked by an authorized HYUNDAI dealer.

Parking brake warning light



Check the Parking Brake Warning Light by setting the ignition switch to the ON position (🚗 indicator off).

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 while the vehicle is in the ready (🚗) mode, there may be a malfunction in the brake system. Immediate attention is necessary.

If at all possible, cease driving the vehicle immediately. If that is not possible, use extreme caution while operating the vehicle and only continue to drive the vehicle until you can reach a safe location.

Emergency braking

If there is a problem with the brake pedal while driving, emergency braking is possible by pulling up and holding the EPB switch. Braking is possible only while you are holding the EPB switch. However, braking distance will be longer than normal.



WARNING

Do not operate the parking brake while the vehicle is moving except in an emergency situation. It could damage the brake system and lead to a severe accident.



Information

During emergency braking, the parking brake warning light will illuminate to indicate that the system is operating.

NOTICE

If you continuously notice a noise or burning smell when the EPB is used for emergency braking, we recommend that you have the system checked by an authorized HYUNDAI dealer.

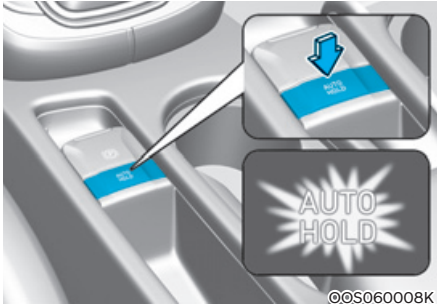
When the EPB (Electronic Parking Brake) does not release

If the EPB does not release normally, we recommend that you contact an authorized HYUNDAI dealer by loading the vehicle on a flatbed tow truck and have the system checked.

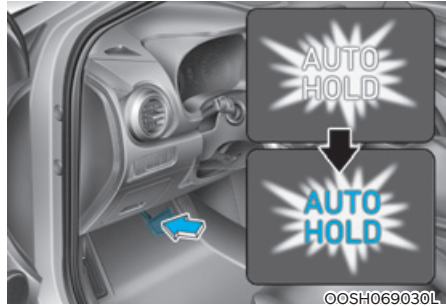
Auto Hold

The Auto Hold maintains the vehicle in a standstill even though the brake pedal is not depressed after the driver brings the vehicle to a complete stop by depressing the brake pedal.

To apply:



1. With the driver's door and engine hood closed, depress the brake pedal and then press the [AUTO HOLD] switch. The white AUTO HOLD indicator will come on and the system will be in the standby position.



2. When you stop the vehicle completely by depressing the brake pedal, the Auto Hold maintains the brake pressure to hold the vehicle stationary. The indicator changes from white to green.
3. The vehicle will remain stationary even if you release the brake pedal.
4. If EPB is applied, Auto Hold will be released.

To release:

- If you depress the accelerator pedal with the shift lever in D (Drive) or Manual shift mode, the Auto Hold will be released automatically and the vehicle will start to move. The AUTO HOLD indicator changes from green to white.
- If the vehicle is restarted using the cruise control toggle switch (RES+ or SET-) while Auto Hold and cruise control is operating, the Auto Hold will be released regardless of accelerator pedal operation. The AUTO HOLD indicator changes from green to white.

WARNING

When the AUTO HOLD is automatically released by depressing the accelerator pedal, always take a look around your vehicle.

Slowly depress the accelerator pedal for a smooth start.

To cancel:



1. Depress the brake pedal.
 2. Press the [AUTO HOLD] switch.
- The AUTO HOLD indicator will turn off.

WARNING

To prevent, unexpected and sudden vehicle movement, **ALWAYS** press your foot on the brake pedal to cancel the Auto Hold before you:

- Drive downhill.
- Drive the vehicle in R (Reverse).
- Park the vehicle.

Information

- The Auto Hold does not operate when:
 - The driver's door is opened
 - The engine hood is opened
 - The shift lever is in P (Park) or R (Reverse)
 - EPB is applied
- For your safety, the Auto Hold automatically switches to EPB when:
 - The driver's door is opened
 - The engine hood is opened
 - The vehicle is in a standstill for more than 10 minutes
 - The vehicle is standing on a steep slope
 - The vehicle moved several times

In these cases, the parking brake warning light comes on, the AUTO HOLD indicator changes from green to white, and a warning sound and a message will appear to inform you that EPB has been automatically engaged. Before driving off again, depress the brake pedal, check the surrounding area near your vehicle and release the parking brake manually with the EPB switch.

- While operating Auto Hold, you may hear mechanical noise. However, it is normal operating noise.

NOTICE

If the AUTO HOLD indicator changes to yellow, the Auto Hold is not working properly. We recommend that you contact an authorized HYUNDAI dealer.

 **WARNING**

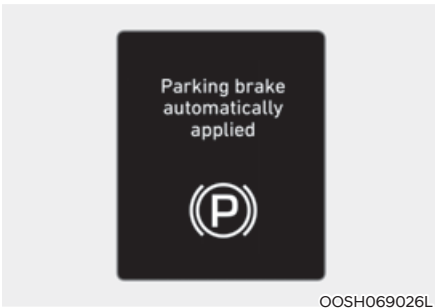
- Depress the accelerator pedal slowly when you start the vehicle.
- For your safety, cancel the Auto Hold when you drive downhill, back up the vehicle or park the vehicle.

NOTICE

If there is a malfunction with the driver's door or engine hood open detection system, the Auto Hold may not work properly.

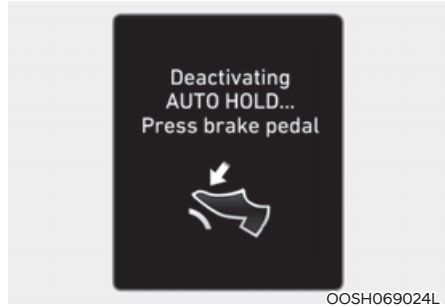
We recommend that you contact an authorized HYUNDAI dealer.

Warning messages



Parking brake automatically applied

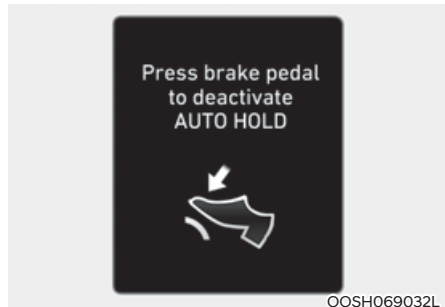
When the EPB is applied from Auto Hold, a warning will sound and a message will appear.



**Deactivating AUTO HOLD...
Press brake pedal**

When the conversion from Auto Hold to EPB is not working properly a warning will sound and a message will appear.

When this message is displayed, the Auto Hold and EPB may not operate. For your safety, depress the brake pedal.



Press brake pedal to deactivate AUTO HOLD

If you did not apply the brake pedal when you release the Auto Hold by pressing the [AUTO HOLD] switch, a warning will sound and a message will appear.



**AUTO HOLD conditions not met.
Close door and hood.**

When you press the [AUTO HOLD] switch, if the driver's door and engine hood are not closed, a warning will sound and a message will appear on the cluster LCD display.

Press the [AUTO HOLD] switch after closing the driver's door and hood.

Anti-lock Brake System (ABS)

WARNING

An Anti-Lock Braking System (ABS) or an Electronic Stability Control (ESC) system will not prevent accidents due to improper or dangerous driving maneuvers. Even though vehicle control is improved during emergency braking, always maintain a safe distance between you and objects ahead of you. Vehicle speeds should always be reduced during extreme road conditions. The braking distance for vehicles equipped with ABS or ESC may be longer than for those without these systems in the following road conditions.

Drive your vehicle at reduced speeds during the following conditions:

- Rough, gravel or snow-covered roads.
- On roads where the road surface is pitted or has different surface height.
- Tire chains are installed on your vehicle. Drive your vehicle at reduced speeds during the above conditions.

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 to 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 depending on 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 an authorized HYUNDAI dealer 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 dealer as soon as possible.

NOTICE

When you drive on a road having poor traction, such as an icy road, and apply your brakes continuously, the ABS will be active continuously and the ABS warning light () 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.

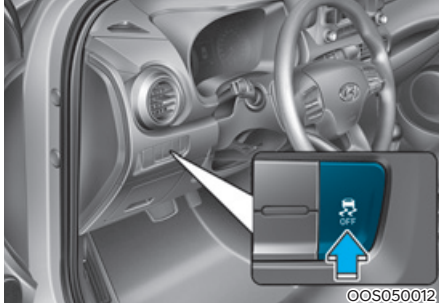
Otherwise, you may have a problem with your ABS system. We recommend that you contact an authorized HYUNDAI dealer as soon as possible.



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) (if equipped)



The Electronic Stability Control (ESC) system helps to stabilize the vehicle during cornering maneuvers.

ESC checks where you are steering and where the vehicle is actually going. ESC applies braking pressure to any one of the vehicle's brakes and intervenes in the 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 maneuvers, 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.

When operating



When the ESC is in operation, the ESC indicator light blinks:

- When you apply your brakes under conditions which may lock the wheels, you may hear sounds from the brakes, or feel a corresponding sensation in the brake pedal. This is normal and it means your ESC is active.
- When the ESC activates, the 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.

ESC OFF condition



To cancel ESC operation:

- State 1

Press the ESC OFF button briefly. The ESC OFF indicator light and message “Traction Control disabled” will illuminate. In this state, the traction control function of ESC (engine management) is disabled, but the brake control function of ESC (braking management) still operates.

- State 2

Press and hold the ESC OFF button continuously for more than 3 seconds. The ESC OFF indicator light and 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. If the ignition switch is placed in the LOCK/OFF position when ESC is off, ESC remains off. Upon restarting the vehicle, the ESC will automatically turn on again.

Indicator lights

- ESC indicator light (blinks)



- ESC OFF indicator light (comes on)



When the 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 an authorized HYUNDAI dealer as soon as possible.

The ESC OFF indicator light comes on when the ESC is turned off with the button.



WARNING

When the ESC is blinking, this indicates the ESC is active:

Drive slowly and NEVER attempt to accelerate. NEVER turn the ESC off while the ESC indicator light is blinking or you may lose control of the vehicle resulting in an accident.

NOTICE

Driving with wheels and tires with different sizes may cause the ESC system to malfunction. Before replacing tires, make sure all four tires and wheels are the same size. Never drive the vehicle with different sized wheels and tires installed.

ESC OFF usage**When Driving**

The ESC OFF mode should only be used briefly to help free the vehicle if stuck in snow or mud, by temporarily stopping operation of the ESC, to maintain wheel torque.

To turn ESC off while driving, press the ESC OFF button while driving on a flat road surface.

NOTICE

To prevent damage to the transmission:

- Do not allow wheel(s) of one axle to spin excessively while the ESC, ABS, and parking brake warning lights are displayed. The repairs would not be covered by the vehicle warranty. Reduce engine power and do not spin the wheel(s) excessively while these lights are displayed.
- When operating the vehicle on a dynamometer, make sure the ESC is turned off (ESC OFF light illuminated).

**Information**

Turning the ESC off does not affect ABS or standard brake system operation.

Vehicle Stability Management (VSM) (if equipped)

The Vehicle Stability Management (VSM) is a function of the Electronic Stability Control (ESC) system. It helps ensure the vehicle stays stable when accelerating or braking suddenly on wet, slippery and rough roads where traction over the four tires can suddenly become uneven.

**WARNING**

Take the following precautions when using the Vehicle Stability Management (VSM):

- **ALWAYS** check the speed and the distance to the vehicle ahead. The VSM is not a substitute for safe driving practices.
- Never drive too fast for the road conditions. The VSM system will not prevent accidents. Excessive speed in bad weather, on 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 15 km/h (9 mph) on curve roads.
- Vehicle speed is approximately above 20 km/h (12 mph) 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 illuminated or blinks, your vehicle may have a malfunction with the VSM system. When the warning light illuminates we recommend that the vehicle be checked by an authorized HYUNDAI dealer as soon as possible.

NOTICE

Driving with wheels and tires with different sizes may cause the VSM system to malfunction. Before replacing tires, make sure all four tires and wheels are the same size. Never drive the vehicle with different sized tires and wheels installed.

Hill-Start Assist Control (HAC) (if equipped)

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.

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, while sharply and severely braking.

The system is activated when:

- The vehicle suddenly stops. (The deceleration power exceeds 7 m/s^2 , and the driving speed exceeds 55 km/h (34 mph).)
- The ABS is activated and the driving speed exceeds 55 km/h (34 mph).

The hazard warning flasher automatically turns ON after blinking the stop lights:

- When the driving speed is under 40 km/h (25 mph),
- When the ABS is deactivated, and
- When the sudden braking situation is over.

The hazard warning flasher turns OFF:

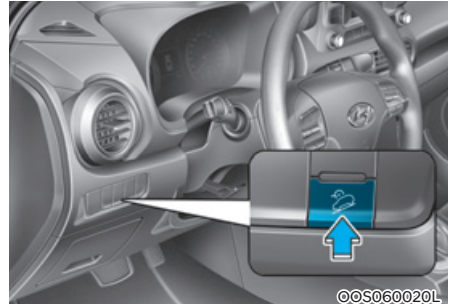
- When the vehicle drives at a low speed for a certain period of time.

The driver can manually turn OFF the hazard warning flasher by pressing the button.

i Information

The Emergency Stop Signal (ESS) system will not activate, when the hazard warning flashers are already on.

Downhill Brake Control (DBC) (if equipped)



The Downhill Brake Control (DBC) supports the driver come down a steep hill without depressing the brake pedal. It slows down the vehicle under 8 km/h (5 mph) (for dual clutch transmission vehicles) or 8 km/h (5 mph) (for manual transaxle vehicles) and lets the driver concentrate on steering the vehicle.





⚠ WARNING

Always turn off the DBC on normal roads. The DBC might activate inadvertently from the standby mode when driving through speed bumps or making sharp curves.

NOTICE

- The DBC defaults to the OFF position whenever the ignition switch is placed in the ON position.
- Noise or vibration may occur from the brakes when the DBC is activated.
- The rear stop light comes on when DBC is activated.

DBC operation

Mode	Indicator light	Description
Standby	 illuminated	Press the DBC button when vehicle speed is under 40km/h (25mph). The DBC system will turn ON and enter the standby mode. The system does not turn ON if vehicle speed is over 40km/h (25mph).
Activated	 blinks	In the standby mode, if vehicle speed is under 35km/h (22mph) while driving down a steep hill, the DBC will activate automatically.
Temporarily deactivated	 illuminated	In the activated mode, the DBC will temporarily deactivate under the following conditions: <ul style="list-style-type: none"> • The hill is not steep enough. • The brake pedal or accelerator pedal is depressed. If the above conditions are gone, the DBC will automatically activate again.
OFF	 not illuminated	The DBC will turn OFF under the following conditions: <ul style="list-style-type: none"> • The DBC button is pressed again. • Vehicle speed is over 60km/h (38mph).

**WARNING**

If the DBC red indicator light illuminates, the system may have overheated or have malfunctioned. When the warning light illuminates even though the DBC system has cooled off, we recommend that the vehicle be checked by an authorized HYUNDAI dealer as soon as possible.

NOTICE

- The DBC may not deactivate on steep inclines even though the brake or accelerator pedal is depressed.
- Do not turn on the DBC when driving with shift lever in 3rd gear (and above) for vehicles with manual transmission. The engine may stop if the DBC system is activated.
- The DBC does not operate when:
 - The shift lever is in P (Park).
 - The ESC is activated.

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 the P (Park) position, 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. We recommend that you call an authorized HYUNDAI dealer for assistance.

DO NOT drive with your foot resting on the brake pedal. Even light, but constant pedal pressure can result in the brakes overheating, brake wear, and possibly even brake failure.

If a tire goes flat while you are driving, apply the brakes gently and keep the vehicle pointed straight ahead while you slow down. When you are moving slowly enough for it to be safe to do so, pull off the road and stop in a safe location.

Keep your foot firmly on the brake pedal when the vehicle is stopped to prevent the vehicle from rolling forward.

FOUR WHEEL DRIVE (4WD) (IF EQUIPPED)



The Four Wheel Drive (4WD) System delivers engine power to all front and rear wheels for maximum traction. 4WD is useful when extra traction is required on slippery, muddy, wet, or snow-covered roads.

Occasional off-road use such as established unpaved roads and trails are OK. It is always important that the driver carefully reduces the speed to a level that does not exceed the safe operating speed for those conditions.



WARNING

To reduce the risk of **SERIOUS INJURY** or **DEATH**:

- Do not drive in conditions that exceed the vehicles intended design such as challenging off-road conditions.
- Avoid high speeds when cornering or turning.
- Do not make quick steering wheel movements, such as sharp lane changes or fast, sharp turns.
- The risk of a rollover is greatly increased if you lose control of your vehicle at highway speeds.
- Loss of control often occurs if two or more wheels drop off the roadway and the driver over steers to reenter the roadway.
- In the event your vehicle leaves the roadway, do not steer sharply. Instead, slow down before pulling back into the travel lanes.




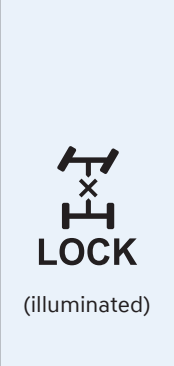
NOTICE

Do not drive in water if the level is higher than the bottom of the vehicle.

- Check your brake condition once you are out of mud or water. Depress the brake pedal several times as you move slowly until you feel normal braking return.
- Shorten your scheduled maintenance interval if you drive in off-road conditions such as sand, mud or water (see “Maintenance Under Severe Usage Conditions” in chapter 9).
- Always wash your vehicle thoroughly after off road use, especially the bottom of the vehicle.
- Be sure to equip all four tires with the correct size and type.
- Make sure that a full time 4WD vehicle is towed by a flat bed tow truck.



4WD operation

Four Wheel Drive (4WD) mode selection

Transfer mode	Selection button	Indicator light	Description
4WD AUTO (4WD LOCK is deactivated)		 (not illuminated)	In the 4WD AUTO mode, under normal operating conditions, the vehicle operates similar to conventional 2WD vehicles. If the system determines there is a need for four wheel drive, the engine's driving power is distributed to all four wheels automatically. Use this mode when driving on normal roads.
4WD LOCK		 (illuminated)	<ul style="list-style-type: none"> This mode is used for climbing or descending sharp grades, off-road driving, driving on sandy and muddy roads, etc., to maximize traction. This mode automatically begins to deactivate at speeds above 40 km (25 mph) and is shifted to 4WD AUTO mode at speed above 60 km (38 mph). If the vehicle decelerates to speeds below 40 km (25 mph), however, the transfer mode is shifted into 4WD LOCK mode again.



WARNING

If 4WD warning light () stays on the instrument cluster, your vehicle may have a malfunction with the 4WD system. When the 4WD warning light () illuminates we recommend that the vehicle be checked by an authorized HYUNDAI dealer as soon as possible.



CAUTION

When driving on normal roads, deactivate the 4WD LOCK mode by pushing the 4WD LOCK button (4WD LOCK indicator light goes off). Driving on normal roads with the 4WD LOCK mode, especially, when cornering may cause mechanical noise or vibration. The noise and vibration will disappear when the 4WD LOCK mode is deactivated. Prolonged driving with the noise and vibration may damage some parts of the power train.

NOTICE

When the 4WD LOCK mode is deactivated, a sensation may be felt as the driving power is delivered entirely to the front wheels.

For safe 4WD operation

Before driving

- Make sure all passengers are wearing seat belts.
- Sit upright and closer to the steering wheel than usual. Adjust the steering wheel to a position comfortable for you to drive.

Driving on snow-covered or icy roads

- Start off slowly by applying the accelerator pedal gently.
- Use snow tires or tire chains.
- Keep sufficient distance between your vehicle and the vehicle in front of you.
- Use engine braking during deceleration.
- Avoid speeding, rapid acceleration, sudden brake applications, and sharp turns to prevent skids.

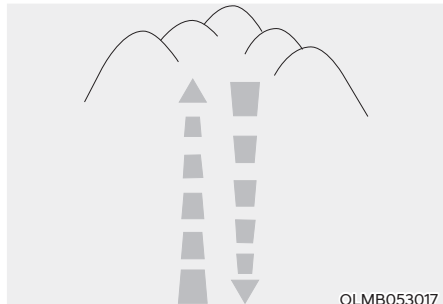
Driving in sand or mud

- Maintain slow and constant speed.
- Use tire chains driving in mud if necessary.
- Keep sufficient distance between your vehicle and the vehicle in front of you.
- Reduce vehicle speed and always check the road condition.
- Avoid speeding, rapid acceleration, sudden brake applications, and sharp turns to prevent getting stuck.



CAUTION

When the vehicle is stuck in snow, sand or mud, place a non-slip material under the drive wheels to provide traction OR slowly spin the wheels in forward and reverse directions which causes a rocking motion that may free the vehicle. However, avoid running the engine continuously at high RPM, doing so may damage the 4WD system.



Driving up or down hills

- Driving uphill
 - Before starting off, check if it is possible to drive uphill.
 - Drive as straight as possible.
- Driving downhill
 - Do not change gear while driving downhill. Select gear before driving downhill.
 - Drive slowly using engine braking while driving downhill.
 - Drive straight as possible.



WARNING

Exercise extreme caution driving up or down steep hills. The vehicle may flip depending on the grade, terrain and water/mud conditions.



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WARNING

Do not drive across the contour of steep hills. A slight change in the wheel angle can destabilize the vehicle, or a stable vehicle may lose stability if the vehicle stops its forward motion. Your vehicle may roll over and lead to a serious injury or death.

Driving through water

- Try to avoid driving in deep standing water. It may stall your engine and clog your exhaust pipes.
- If you need to drive in water, stop your vehicle, set the vehicle in 4WD LOCK mode and drive under 8 km/h (5mph).
- Do not change gear while driving in water.

CAUTION

Always drive slowly in water. If you drive too fast, water may get into the engine compartment and wet the ignition system causing your vehicle to suddenly stop.

Additional driving conditions

- Become familiar with the off-road conditions before driving.
- Always pay attention when driving off-road and avoid dangerous areas.
- Drive slowly when driving in heavy wind.
- Reduce vehicle speed when cornering. The center of gravity of 4WD vehicles is higher than conventional 2WD vehicles, making them more likely to roll over when you rapidly turn corners.



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- Always hold the steering wheel firmly when you are driving off-Wroad.

WARNING

Do not grab the inside of the steering wheel when you are driving off-road. You may hurt your arm by a sudden steering maneuver or from steering wheel rebound due to an impact with objects on the ground. You could lose control of the steering wheel which may lead to serious injury or death.

Emergency precautions

Tires

Do not use tire and wheel with different size and type from the one originally installed on your vehicle. It can affect the safety and performance of your vehicle, which could lead to steering failure or rollover causing serious injury.

When replacing the tires, be sure to equip all four tires with the tire and wheel of the same size, type, tread, brand and load-carrying capacity. If you equip your vehicle with any tire/wheel combination not recommended by HYUNDAI for off-road driving, you should not use these tires for highway driving.



WARNING

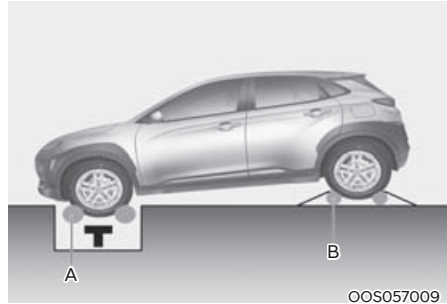
Never start or run the engine while a full-time 4WD vehicle is raised on a jack. The vehicle can slip or roll off of a jack causing serious injury or death to you or those nearby.

Towing

4WD vehicles must be towed with a wheel lift and dollies or flatbed equipment with all the wheels off the ground. For more information, refer to “Towing” in chapter 6.

Dynamometer testing

A full-time 4WD vehicle must be tested on a special four wheel chassis dynamometer.



[A] : Roll Tester (Speedometer)

[B] : Temporary Free Roller

A full-time 4WD vehicle should not be tested on a 2WD roll tester. If a 2WD roll tester must be used, perform the following procedure:

1. Check the tire pressures recommended for your vehicle.
2. Place the front wheels on the roll tester for a speedometer test as shown in the illustration.
3. Release the parking brake.
4. Place the rear wheels on the temporary free roller as shown in the illustration.



CAUTION

- **Never engage the parking brake while performing the test.**
- **When the vehicle is lifted up, do not operate the front and rear wheel separately. All four wheels should be operated.**



WARNING

Keep away from the front of the vehicle while the vehicle is in gear on the dynamometer. The vehicle can jump forward and cause serious injury or death.

IDLE STOP AND GO (ISG) SYSTEM (IF EQUIPPED)

Your vehicle may be equipped with the ISG system, which reduces fuel consumption by stopping and restarting the engine automatically.

The engine starts automatically as soon as the starting conditions are met.

NOTICE

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 is malfunctioning.

Activating the ISG

The ISG system turns on whenever you switch the ignition on.

Deactivating the ISG

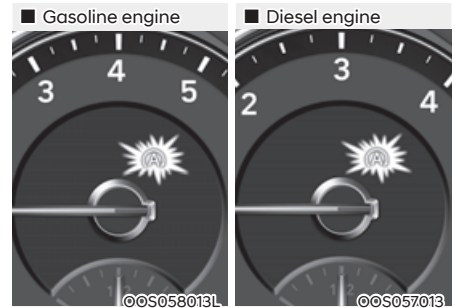


If you want to deactivate the ISG system, press the ISG OFF button.

The light on the ISG OFF button will illuminate.

If you press the ISG OFF button again, the system will be activated and the light on the ISG OFF button will turn off.

Auto stop



To stop the engine in idle stop mode (except 48V MHEV)

Manual Transmission/Intelligent Manual Transmission

1. Decrease the vehicle speed to less than 5 km/h (3 mph).
2. Shift into N (Neutral) position.
3. Release the clutch pedal.

Intelligent Variable Transmission/Dual Clutch Transmission

1. Decrease the vehicle speed to 0 km/h (0 mph).
2. Press the brake pedal.

The engine will stop and the green AUTO STOP indicator ((A)) on the instrument cluster will illuminate.

NOTICE

- Vehicle which is equipped with manual transmission or intelligent manual transmission must reach a speed of at least 8 km/h (5 mph) since last idle stop and vehicle which is equipped with automatic transmission or dual clutch transmission must reach a speed of at least 5 km/h (3 mph) since last idle stop.
- If you unfasten the seat belt or open the driver's door (engine hood) ISG system will be deactivated.

To stop the engine in idle stop mode (for 48V MHEV)

Manual Transmission/Intelligent Manual Transmission

Three versions of idle stop are available for MHEV which is equipped with manual transmission or intelligent manual transmission.

- Conventional Idle STOP
 - Decrease the vehicle speed to less than 7 km/h (4 mph).
 - Shift into N (Neutral) position.
 - Release the clutch pedal.
- Extended Idle STOP
 - Depress the brake pedal.
 - Depress the clutch pedal.
- During Sailing Mode

You can keep engine off status from sailing to standstill by pressing clutch and brake pedal nearly at the same time.

NOTICE

1. **If last gear position was 1st, ISG STOP will not be activated.**
2. **Vehicle which is equipped with manual transmission or intelligent manual transmission must reach a speed of at least 8 km/h (5 mph) since last idle stop.**
3. **During ISG STOP status, you can shift into N(Neutral) position and release clutch pedal, then ISG STOP status will remain as STOP.**
4. **Extended Idle STOP operates even over 7km/h if it meets the speed requirement in each gear position. (example: Extended Idle STOP operates even at the 3rd speed, 40km/h. (24 mph))**
5. **If you unfasten the seat belt or open the driver's door (engine hood), ISG system will be deactivated.**

Intelligent Variable Transmission/Dual Clutch Transmission

- Conventional Idle STOP
 - Decrease the vehicle speed to 0 km/h (0 mph).
 - Press the brake pedal.
- Extended Idle STOP
 - Decrease the vehicle speed less than 25 km/h (15 mph).
 - Press the brake pedal.
- During Sailing Mode

You can keep engine off status from sailing to standstill by pressing brake pedal below 40 km/h (24 mph).

NOTICE

Vehicle which is equipped automatic transmission or dual clutch transmission must reach a speed of at least 30 km/h (18 mph) for Extended Idle STOP or 5 km/h (3 mph) for Conventional Idle STOP since last idle stop.

- **If you unfasten the seat belt or open the driver's door (engine hood) in auto stop mode at standstill, ISG system will be deactivated.**

Auto start

To restart the engine from idle stop mode (except 48V MHEV)

Manual transmission vehicle/ Intelligent Manual Transmission

Vehicle which is equipped with manual transmission or intelligent manual transmission is available two version of restart.

- Conventional restart

Press the clutch pedal when the shift lever is in the N (Neutral) position.

- Late restart (if equipped)
 1. Depress the clutch pedal
 2. Engage the gear
 3. Release the brake pedal

NOTICE

1. **Late restart function is only operated when it is on a level ground and the vehicle is stable.**
2. **To start the engine when the brake pedal is not pressed or gear is already engaged, press the brake pedal first and press on the clutch pedal for safety.**
3. **To turn on the engine without vehicle movement with the brake pedal pressed (only with Late Restart),**
 - Press and release the clutch pedal
 - Press the clutch pedal again immediately
4. **After the engine stall, If you operate as below the engine will start.**
 - Release the clutch pedal, after the engine completely stop
 - Depress the clutch pedal

Intelligent Variable Transmission/ Dual Clutch Transmission

- Release the brake pedal.

The engine will start and the green AUTO STOP indicator ((A)) on the instrument cluster will go out.

To restart the engine from idle stop mode (for 48V MHEV)

Manual Transmission/Intelligent Manual Transmission

- Before standstill

Press the clutch pedal if the clutch pedal has not pressed.

If the clutch pedal has already been pressed, release the brake pedal or move the gear to a position other than N position.

- After standstill
 - If the clutch pedal has already been pressed, release the brake pedal or move the gear from N (Neutral).
 - If the clutch pedal is not pressed, the engine will restart in accordance with the LATE Restart procedure.
- 1) Depress the clutch pedal
 - 2) Engage the gear
 - 3) Release only the brake pedal

NOTICE

1. Late restart function is only operated when it is on a level ground and the vehicle is stable.
2. To start the engine when the brake pedal is not pressed or gear is already engaged, press the brake pedal first and press on the clutch pedal for safety.
3. To turn on the engine without vehicle movement with the brake pedal pressed (only with Late Restart),
 - Press and release the clutch pedal
 - Press the clutch pedal again immediately
4. After the engine stall, if you operate as below the engine will start.
 - Release the clutch pedal, after the engine completely stops
 - Depress the clutch pedal
5. After operating ISG STOP, if the vehicle speed increases instead of decreasing, the engine may restart automatically.

**Intelligent Variable Transmission/
Dual Clutch Transmission**

Release the brake pedal

NOTICE

After operating ISG STOP, if the vehicle speed increases instead of decreasing, the engine may restart automatically.

Condition of ISG system operation

The ISG system will operate under the following condition:

- The driver's seatbelt is fastened
- The driver's door and hood are closed
- The brake vacuum pressure is adequate
- The battery sensor is activated and the battery is sufficiently charged
- Outside temperature is not too low or too high
- The vehicle is driven over a constant speed and stops
- The climate control system satisfies the conditions
- The vehicle is sufficiently warmed up
- The vehicle is not on a steep road grade (Except Manual Transmission)
- The steering wheel is not at a sharp angle (Except Manual Transmission)
- The vehicle is not at a high elevation
- The front windshield defroster is off
- You have not selected Manual shift mode (Except Manual Transmission)
- When sufficient time has elapsed after shifting to R (Reverse) was released ISG system malfunction

The engine will also restart automatically without the driver's any actions if the following occurs:

- The brake vacuum pressure is low.
- You have exceeded the maximum engine off time
- The air conditioning is ON with the fan speed set to the highest position.
- Fogging of the windows could occur and the air conditioning is on.
- The battery is not within optimal operating conditions.
- The cooling and heating performance of the climate control system is unsatisfactory.
- When you press the ISG OFF button with the engine automatically stopped (except Manual Transmission)
- Your vehicle is moving after standstill.
- You press the accelerator and the brake pedal at the same time. (Except Manual Transmission)
- The driver safety belt becomes unfastened or the driver door is ajar (Except Manual Transmission) conditions.

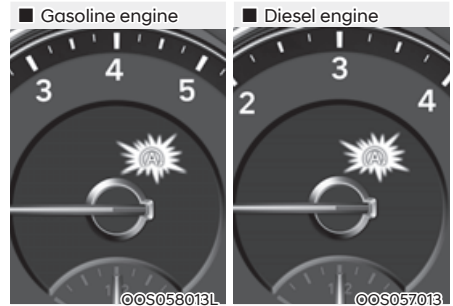
The green AUTO STOP indicator (A) on the instrument cluster will blink for 5 seconds.

NOTICE

If the ISG system does not meet that operation condition, the ISG system is deactivated.

ISG Indication

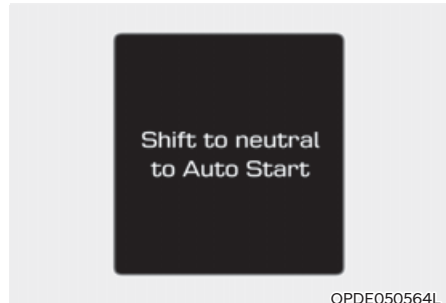
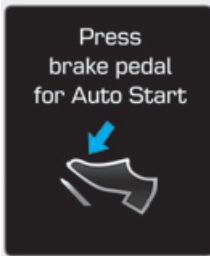
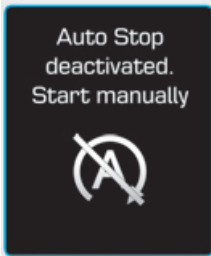
The ISG System is indicated by lamp on the instrument cluster. If your vehicle is equipped with a supervision cluster, the notice will illuminate on the LCD display.



The system may require the engine to manually restart when the light on the ISG OFF button will illuminate and If your vehicle is equipped with a supervision cluster warning message comes on continuously.



Unintentionally, when the engine is turned off or the vehicle is moving, if the gear is engaged and the clutch pedal is not pressed, the system displays the warning message as shown below. At this time, if the driver presses the clutch pedal all the way, the engine restarts automatically. (Only with Late Restart equipped ISG system)

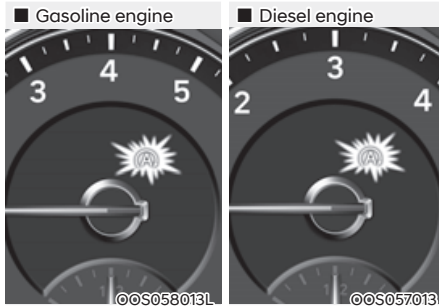


The engine will not start if the shift lever is moved from the N (neutral) stage to the D (driving) stage, manual mode, or R (reverse) stage without stepping on the brake pedal while the engine is stopped automatically. At this time, if you press the brake it will be restarted.

Conventional MT vehicle (not MHEV or not equipped with LATE Restart) is able to restart engine, only in Neutral gear. If you select a gear, without depressing clutch pedal fully, then warning will be displayed with beep. You should restart the engine in Neutral gear position.

ISG malfunction

The system may not operate when:



The ISG related sensors or system error occurs.

The yellow AUTO STOP indicator ((A)) on the instrument cluster will stay on after blinking for 5 seconds and the light on the ISG OFF button will illuminate.

NOTICE

- If the ISG OFF button light is not turned off by pressing the ISG OFF button again or if the ISG system continuously does not work correctly, have your vehicle inspected by a professional workshop as soon as possible. Hyundai recommends to contact an authorized Hyundai dealer.
- When the ISG OFF button light comes on, it may stop illuminating after driving your vehicle at approximately 80 km/h for a maximum of two hours and setting the fan speed control knob below the 2nd position. If the ISG OFF button light continues to be illuminated in spite of the procedure, have your vehicle inspected by a professional workshop as soon as possible. Hyundai recommends to contact an authorized Hyundai dealer.

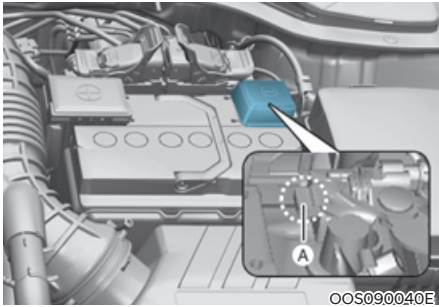
NOTICE

If you want to use the ISG function, the battery sensor needs to be calibrated for approximately 4 hours with the ignition off and then, turn the engine on and off 2 or 3 times.

WARNING

When the engine is in Idle Stop mode, it's possible to restart the engine without the driver taking any action. Before leaving the car or doing anything in the engine room area, stop the engine by turning the ignition switch to the LOCK (OFF) position or removing the ignition key.

The battery sensor deactivation



[A] : Battery sensor

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 (i.e. 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 an authorized HYUNDAI dealer.

NOTICE

- Use only the genuine HYUNDAI ISG battery or the equivalent specified for your vehicle 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.

START STOP COASTING (SSC) (FOR 48V MHEV)

Start Stop Coasting helps reduce fuel consumption by automatically stopping the engine when the vehicle is in motion. The engine is stopped when vehicle speed can be maintained without the accelerator pedal being depressed.

SSC operating conditions

Start Stop Coasting will operate under the following conditions.

- ECO is selected for driving mode
- Vehicle speed maintains a certain speed
- The accelerator or brake pedal is not depressed

When Start Stop Coasting is operating, the 'Sailing!' message appears on the cluster.

Engine restarting conditions

- The engine will restart manually when:
 - The accelerator pedal is depressed
 - The brake pedal is depressed
 - The gear is shifted
- The engine will restart automatically when:
 - The steering wheel is steered above 30~45 degrees
 - The road gradient is between -4~+4 percent
 - The remaining high voltage battery level or 12 volt battery level is low

NOTICE

- **Start Stop Coasting operates only when Drive mode is ECO.**
- **Start Stop Coasting may deactivate depending on indoor or outdoor temperature conditions.**
- **Start Stop Coasting may deactivate depending on climate control conditions (defrost, fan speed, etc.).**
- **Do not shift without depressing the clutch pedal while activating Start Stop Coasting. It may cause transmission damage. Shift the gear all the way after the clutch pedal is fully depressed. (equipped with Intelligent Manual Transmission (iMT))**

DRIVE MODE INTEGRATED CONTROL SYSTEM (IF EQUIPPED)



The drive mode may be selected according to the driver's preference or road condition.

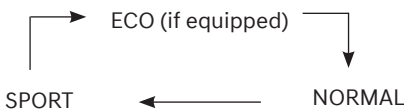
The system resets to be in the NORMAL mode (except if it is in ECO mode), when the engine is restarted.

When the engine is restarted, Drive Mode is set to ECO by default (for iMT/ DCT with 48 MHEV).

i Information

If there is a problem with the instrument cluster, the drive mode will be in NORMAL mode and may not change to SPORT mode.

The mode changes, as below, whenever the DRIVE MODE button is pressed.



When NORMAL mode is selected, it is not displayed on the instrument cluster.

ECO mode (if equipped)



When the Drive Mode is set to ECO mode, the engine and transmission control logic are changed to maximize fuel efficiency.

- When the ECO mode is selected by pressing the DRIVE MODE button, the ECO indicator will illuminate.
- If the vehicle is set to ECO mode, when the engine is turned OFF and restarted, the Drive Mode setting will remain in ECO mode.
- Whenever the engine is restarted, the Drive Mode will change to ECO 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/dual clutch transmission may change.
- The engine noise may get louder.

The above situations are normal conditions when ECO mode is activated, to improve fuel efficiency.

Limitation of ECO mode operation:

If the following conditions occur while ECO mode is operating, the system operation is limited even though there is no change in ECO indicator.

- When the coolant temperature is low:
The system will be limited until engine performance becomes normal.
- When driving the vehicle with the automatic transmission/dual clutch transmission gear shift lever in manual shift mode:
The system will be limited due to the shift location.

NOTICE

Start Stop Coasting (SSC) is activated when Drive Mode is ECO mode (for iMT/DCT with 48 MHEV).

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.
- Whenever the engine is restarted, the Drive Mode will revert back to COMFORT mode. If SPORT mode is desired, re-select SPORT mode from the DRIVE MODE button.
- Whenever the engine is restarted, the Drive Mode will change to ECO mode. If the vehicle is equipped with intelligent manual transmission, whenever the engine is restarted, the Drive Mode will change to ECO mode.
- 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
 - When braking condition, the transmission downshifted earlier for re-acceleration (for DCT).

i Information

In SPORT mode, the fuel efficiency may decrease.

TRACTION CONTROL (IF EQUIPPED)

Traction Control is a system that achieve optimal driving performance by controlling engine and braking by road condition (snow, muddy, sandy).

Traction Control mode



If you press the “DRIVE/TRACTION” mode button, the driving mode is changed from Driving control to Traction control. You can select SNOW, MUD or SAND mode by rotation the knob. If you press the “DRIVE/TRACTION” mode button again, the driving mode is changed from Traction Control to previous driving control.

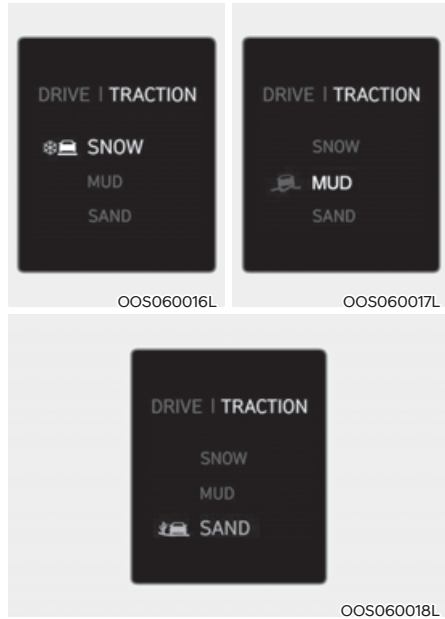
The driving mode will be set to Driving control when the restarted, If it is in Traction Control.

WARNING

Traction mode is designed base on 2WD (2 Wheel Drive), Do not drive in condition that exceed the vehicles intended design.

Invalid mode selection can lead to loss of traction and skidding, particularly on slippery roads, this can cause you to lose control of the vehicle, which can lead to accidents and serious injuries.

Traction mode operation



Traction mode offers special traction tuning for snow/mud/sand, optimizing available traction in adverse conditions. Traction mode adjusts left and right wheel slip control, engine torque and shift patterns according to available traction levels.

LCD display message

Transmission hot! Park with engine On



- When the message "Transmission cooled down. Resume driving (Trans cooled. Resume driving)" appears you can continue to drive your vehicle.
- When possible, drive the vehicle smoothly.

- Under certain conditions, such as harsh driving conditions (mud or sand road), the transmission temperatures will increase excessively. Finally the transmission could be overheated.
- If the vehicle continues to be driven and the transmission temperatures reach the maximum temperature limit, the "Transmission hot! Park with engine On" warning will be displayed. When this occurs the transmission is disabled until the transmission 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.

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, tire chains or other non-slip materials under the wheels to provide additional traction while being stuck in ice, snow, or mud.



WARNING

Downshifting with an a automatic transmission/dual clutch transmission while driving on slippery surfaces can cause an accident. The sudden change in tire speed could cause the tires to skid. Be careful when downshifting on slippery surfaces.

Rocking the vehicle

If it is necessary to rock the vehicle to free it from snow, sand, or mud, first turn the steering wheel right and left to clear the area around your front wheels. Then, shift back and forth between R (Reverse) and a forward gear.

Try to avoid spinning the wheels, and do not race the engine.

To prevent transmission wear, wait until the wheels stop spinning before shifting gears. Release the accelerator pedal while shifting, and press lightly on the accelerator pedal while the transmission is in gear. Slowly spinning the wheels in forward and reverse directions causes a rocking motion that may free the vehicle.



WARNING

If the vehicle is stuck and excessive wheel spin occurs, the temperature in the tires can increase very quickly. If the tires become damaged, a tire blow out or tire explosion can occur. This condition is dangerous - you and others may be injured. Do not attempt this procedure if people or objects are anywhere near the vehicle.

If you attempt to free the vehicle, the vehicle can overheat quickly, possibly causing an engine compartment fire or other damage. Try to avoid spinning the wheels as much as possible to prevent overheating of either the tires or the engine. DO NOT allow the vehicle to spin the wheels above 56 km/h (35 mph).



Information

The ESC system (if equipped) must be turned OFF before rocking the vehicle.

NOTICE

If you are still stuck after rocking the vehicle a few times, have the vehicle pulled out by a tow vehicle to avoid engine overheating, possible damage to the transmission, and tire damage. See “Towing” in chapter 8.

Smooth cornering

Avoid braking or gear changing in corners, especially when roads are wet. Ideally, corners should always be taken under gentle acceleration.

Driving at night

Night driving presents more hazards than driving in the daylight. Here are some important tips to remember:

- Slow down and keep more distance between you and other vehicles, as it may be more difficult to see at night, especially in areas where there may not be any street lights.
- Adjust your mirrors to reduce the glare from other drivers' headlamps.
- Keep your headlamps clean and properly aimed. Dirty or improperly aimed headlamps will make it much more difficult to see at night.
- Avoid staring directly at the headlamps of oncoming vehicles. You could be temporarily blinded, and it will take several seconds for your eyes to readjust to the darkness.

Driving in the rain

Rain and wet roads can make driving dangerous. Here are a few things to consider when driving in the rain or on slick pavement:

- Slow down and allow extra following distance. A heavy rainfall makes it harder to see and increases the distance needed to stop your vehicle.
- Turn OFF your Cruise Control. (if equipped)
- Replace your windshield wiper blades when they show signs of streaking or missing areas on the windshield.
- Be sure your tires have enough tread. If your tires do not have enough tread, making a quick stop on wet pavement can cause a skid and possibly lead to an accident. **See "Tire replacement" in chapter 9.**
- Turn on your headlamps to make it easier for others to see you.
- Driving too fast through large puddles can affect your brakes. If you must go through puddles, try to drive through them slowly.
- If you believe your brakes may be wet, apply them lightly while driving until normal braking operation returns.

Hydroplaning

If the road is wet enough and you are going fast enough, your vehicle may have little or no contact with the road surface and actually ride on the water. The best advice is SLOW DOWN when the road is wet.

The risk of hydroplaning increases as the depth of tire tread decreases, refer to "Tire replacement" in chapter 9.

Driving in flooded areas

Avoid driving through flooded areas unless you are sure the water is no higher than the bottom of the wheel hub. Drive through any water slowly. Allow adequate stopping distance because brake performance may be reduced.

After driving through water, dry the brakes by gently applying them several times while the vehicle is moving slowly.

Highway driving

Tires

Adjust the tire inflation, as specified. Under-inflation may overheat or damage the tires.

Do not install worn-out or damaged tires, which may reduce traction or fail the braking operation.

Information

Never over-inflate your tires above the maximum inflation pressure, as specified on your tires.

Fuel, engine coolant and engine oil

Driving at higher speeds on the highway consumes more fuel and is less efficient than driving at a slower, more moderate speed. Maintain a moderate speed in order to conserve fuel when driving on the highway.

Be sure to check both the engine coolant level and the engine oil before driving.

Drive belt

A loose or damaged drive belt may overheat the engine.

Reducing the risk of a rollover

Your multi-purpose passenger vehicle is defined as a Sports Utility Vehicle (SUV). SUV's have higher ground clearance and a narrower track to make them capable of performing in a wide variety of off-road applications. The specific design characteristics give them a higher center of gravity than ordinary vehicles making them more likely to roll over if you make abrupt turns. Utility vehicles have a significantly higher rollover rate than other types of vehicles. Due to this risk, driver and passengers are strongly recommended to buckle their seat belts. In a rollover crash, an unbelted person is significantly more likely to die than a person wearing a seat belt.

There are steps that a driver can make to reduce the risk of a rollover. If at all possible, avoid sharp turns or abrupt maneuvers, do not load your vehicle with heavy cargo on the roof, and never modify your vehicle in any way.

WARNING

Utility vehicles have a significantly higher rollover rate than other types of vehicles. To prevent rollovers or loss of control:

- **Take corners at slower speeds than you would with a passenger vehicle.**
- **Avoid sharp turns and abrupt maneuvers.**
- **Do not modify your vehicle in any way that you would raise the center of gravity.**
- **Keep tires properly inflated.**
- **Do not carry heavy cargo on the roof.**

WARNING

In a rollover crash, an unbelted person is significantly more likely to die than a person wearing a seat belt. Make sure all passengers are wearing their seat belts.

WINTER DRIVING

The severe weather conditions of winter quickly wear out tires and cause other problems. To minimize winter driving problems, you should take the following suggestions:

Information

Information for Snow Tires and Tire Chains in the national language (Icelandic) is provided in the Appendix.

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 tires or to install tire chains on your tires.

Always carry emergency equipment. Some of the items you may want to carry include tire chains, tow straps or chains, a flashlight, emergency flares, sand, a shovel, jumper cables, a window scraper, gloves, ground cloth, coveralls, a blanket, etc.

Snow tires

WARNING

Snow tires should be equivalent in size and type to the vehicle's standard tires. Otherwise, the safety and handling of your vehicle may be adversely affected.

If you mount snow tires on your vehicle, make sure to use radial tires of the same size and load range as the original tires. Mount snow tires on all four wheels to balance your vehicle's handling in all weather conditions. The traction provided by snow tires on dry roads may not be as high as your vehicle's original equipment tires. Check with the tire dealer for maximum speed recommendations.

Information

Do not install studded tires without first checking local and municipal regulations for possible restrictions against their use.

Tire chains



Since the sidewalls of radial tires are thinner than other types of tires, they may be damaged by mounting some types of tire chains on them. Therefore, the use of snow tires is recommended instead of tire chains. Do not mount tire chains on vehicles equipped with aluminum wheels; if unavoidable use a wire type snow chain. If tire chains must be used, use genuine HYUNDAI parts or equivalent specified for your vehicle and install the tire chain after reviewing the instructions provided with the tire chains. Damage to your vehicle caused by improper tire chain use is not covered by your vehicle manufacturer's warranty.



WARNING

The use of tire chains may adversely affect vehicle handling:

- **Drive less than 30 km/h (20 mph) or the chain manufacturer's recommended speed limit, whichever is lower.**
- **Drive carefully and avoid bumps, holes, sharp turns, and other road hazards, which may cause the vehicle to bounce.**
- **Avoid sharp turns or locked wheel braking.**



Information

- **Install tire chains on the front tires. It should be noted that installing tire chains on the tires will provide a greater driving force, but will not prevent side skids.**
- **Do not install studded tires without first checking local and municipal regulations for possible restrictions against their use.**

Chain Installation

When installing tire chains, follow the manufacturer's instructions and mount them as tightly possible. Drive slowly (less than 30 km/h (20 mph)) with chains installed. If you hear the chains contacting the body or chassis, stop and tighten them. If they still make contact, slow down until the noise stops. Remove the tire chains as soon as you begin driving on cleared roads.

When mounting snow chains, park the vehicle on level ground away from traffic. Turn on the vehicle Hazard Warning Flasher and place a triangular emergency warning device behind the vehicle (if available). Always place the vehicle in P (Park), apply the parking brake and turn off the engine before installing snow chains.

NOTICE

When using tire chains:

- **Wrong size chains or improperly installed chains can damage your vehicle's brake lines, suspension, body and wheels.**
- **Use SAE "S" class or wire chains.**
- **If you hear noise caused by chains contacting the body, retighten the chain to prevent contact with the vehicle body.**
- **To prevent body damage, retighten the chains after driving 0.5~1.0 km (0.3~0.6 miles).**
- **Do not use tire chains on vehicles equipped with aluminum wheels. If unavoidable, use a wire type chain.**
- **Use wire chains less than 12 mm (0.47 in) wide to prevent damage to the chain's connection.**

Winter Precautions**Use high quality ethylene glycol coolant**

Your vehicle is delivered with high quality ethylene glycol coolant in the cooling system. It is the only type of coolant that should be used because it helps prevent corrosion in the cooling system, lubricates the water pump and prevents freezing. Be sure to replace or replenish your coolant in accordance with the maintenance schedule in chapter 9. 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 9.**

We recommend that the system be checked by an authorized HYUNDAI dealer.

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 2. When you are not sure about a type of winter weight oil, we recommend that you consult an authorized HYUNDAI dealer.

Check spark plugs and ignition system
Inspect the spark plugs, as specified in the chapter 9. If necessary, replace them. Also check all ignition wirings and components for any cracks, wear-out, and damage.

To prevent locks from freezing

To prevent the locks from being frozen, spray approved de-icing fluid or glycerin into key holes. When a lock opening is already covered with ice, spray approved de-icing fluid over the ice to remove it. When an internal part of a lock freezes, try to thaw it with a heated key. Carefully use the heated key to avoid an injury.

Use approved window washer anti-freeze solution in system

To prevent the window washer from being frozen, add authorized window washer anti-freeze solution, as specified on the window washer container. Window washer anti-freeze solution is available from an authorized HYUNDAI dealer, and most vehicle accessory outlets. Do not use engine coolant or other types of anti-freeze solution, to prevent any damage to the vehicle paint.

Do not let your parking brake freeze

Under some conditions your parking brake can freeze in the engaged position. This is most likely to happen when there is an accumulation of snow or ice around or near the rear brakes or if the brakes are wet. When there is the risk that your parking brake may freeze, temporarily apply it with the shift lever in P (Park). Also, block the rear wheels in advance, so the vehicle may not roll. Then, release the parking brake.

Do not let ice and snow accumulate underneath

Under some conditions, snow and ice can build up under the fenders and interfere with the steering. When driving in such conditions during the severe winter, you should check underneath the vehicle on a regular basis, to ensure that the front wheels and the steering components is unblocked.

Carry emergency equipment

In accordance with weather conditions, you should carry appropriate emergency equipment, while driving. Some of the items you may want to carry include tire chains, tow straps or chains, flashlight, emergency flares, sand, shovel, jumper cables, window scraper, gloves, ground cloth, coveralls, blanket, etc.

Do not place objects or materials in the 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.

TRAILER TOWING (FOR EUROPE)

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. We recommend that you ask an authorized HYUNDAI dealer 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 - For Europe

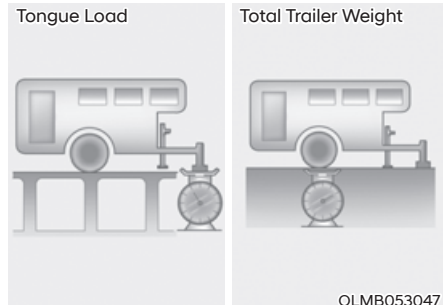
- **The technically permissible maximum load on the rear axle(s) may be exceeded by not more than 15 % and the technically permissible maximum laden mass of the vehicle may be exceeded by not more than 10% or 100 kg (220.4 lbs), whichever value is lower. In this case, do not exceed 100 km/h (62.1 mph) 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 tire maximum load ratings to be exceeded, but not by more than 15%. In this case, do not exceed 100 km/h (62.1 mph) and increase the tire inflation pressure by at least 0.2 bar.**
- * M1 : passenger vehicle (9-seater or under)
- * N1 : commercial vehicle (3.5ton or under)

If you decide to pull a trailer?

Here are some important points if you decide to pull a trailer:

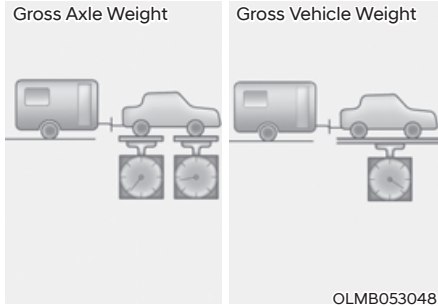
- Consider using a sway control. You can ask a trailer hitch dealer about sway control.
- Do not do any towing with your vehicle during its first 2,000 km (1,200 miles) in order to allow the engine to properly break in. Failure to heed this caution may result in serious engine or transmission damage.
- When towing a trailer, we recommend that you consult an authorized HYUNDAI dealer for further information on additional requirements such as a towing kit, etc.
- Always drive your vehicle at a moderate speed (less than 100 km/h (60 mph)) or posted towing speed limit.
- On a long uphill gradient, do not exceed 70 km/h (45 mph) 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.

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 (for Europe)

Item		Gasoline Engine				
		Smartstream G1.0 T-GDI/ Smartstream G1.0 T-GDI (48V) MHEV			Smartstream G1.6 T-GDI	
		MT	IMT	DCT	DCT	
		2WD	2WD	2WD	2WD	4WD
Maximum trailer weight kg (lbs.)	With brake system	1200 (2645)			1250 (2756)	
	Without brake system	600 (1322)				
Maximum permissible static vertical load on the coupling device kg (lbs.)		80 (176)				
Recommended distance from rear wheel center to coupling point mm (inch)		820 (32.3)				

Item		Diesel Engine		
		Smartstream D1.6 (48V) MHEV		
		IMT	DCT	
		2WD	2WD	4WD
Maximum trailer weight kg (lbs.)	With brake system	Standard package : 700 (1543) Trailer Package : 1250 (2756)		
	Without brake system	600 (1322)		
Maximum permissible static vertical load on the coupling device kg (lbs.)		80 (176)		
Recommended distance from rear wheel center to coupling point mm (inch)		820 (32.3)		

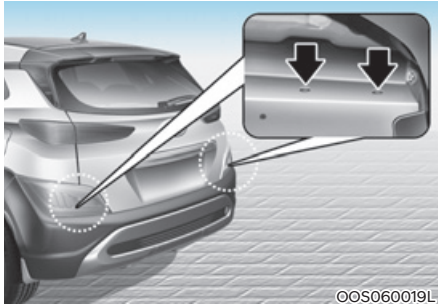
M/T : Manual transmission

DCT : Dual clutch transmission

IMT : Intelligent manual transmission

Trailer towing equipment

Hitches



i Information

The mounting hole for hitches are located on both sides of the underbody behind the rear tires.

It's important to have the correct hitch equipment. Crosswinds, large trucks going by, and rough roads are a few reasons why you'll need the right hitch. Here are some rules to follow:

- Do you have to make any holes in the body of your vehicle when you install a trailer hitch? If you do, then be sure to seal the holes later when you remove the hitch. 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 hitches. Do not attach rental hitches or other bumper-type hitches to them. Use only a frame-mounted hitch that does not attach to the bumper.

- Any part of the rear number plate or lighting devices of the vehicle must not be obscured by the mechanical coupling device. If the rear number plate and/or lighting devices can be obscured partially by any part of the mechanical coupling device, mechanical coupling devices that can not be easily removed or repositioned without use of any tools, except an easily operated (i.e. an effort not exceeding 20Nm) release key which is supplied by the manufacturer of the coupling device, are not permitted for use.

Please note that the mechanical coupling device that is fitted and not in use must always be removed or repositioned if the rear number plate and/or rear lighting devices are obscured by any part of the mechanical coupling device.

- A HYUNDAI trailer hitch accessory is available at an authorized HYUNDAI dealer.

Safety chains

You should always attach chains between your vehicle and your trailer.

Instructions about safety chains may be provided by the hitch 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 hitch and platform, safety chains, electrical connector(s), lights, tires 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, curbs, road signs, trees, or other objects. Avoid jerky or sudden maneuvers. 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. We recommend that you consult an authorized HYUNDAI dealer 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 70 km/h (45 mph) to reduce the possibility of engine and transmission overheating.

If your trailer weighs more than the maximum trailer weight without trailer brakes and you have automatic transmission/dual clutch transmission, you should drive in D (Drive) when towing a trailer.

Operating your vehicle in D (Drive) when towing a trailer will minimize heat build-up and extend the life of your transmission.

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 "H" (HOT), 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.**

- **When towing a trailer, your vehicle speed may be much slower than the general flow of traffic, especially when climbing an uphill gradient. Use the right hand lane when towing a trailer on an uphill gradient. Choose your vehicle speed according to the maximum posted speed limit for vehicles with trailers, the steepness of the gradient, and your trailer weight.**
- **Vehicles equipped with a automatic transmission/dual clutch transmission when towing a trailer on steep gradients, need to be aware that the clutch in the transmission could overheat.**

When the clutch is overheated, the safe protection mode engages. If the safe protection mode engages, the gear position indicator on the cluster blinks with a chime sound.

At this time, a warning message will appear on the LCD display and driving may not be smooth.

If you ignore this warning, the driving condition may become worse.

To return to normal driving conditions, stop the vehicle on a flat road and apply the foot brake for a few minutes before driving off.

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 curb (right if headed down hill, left if headed up hill).
2. Shift the vehicle to P (Park, for automatic transmission/dual clutch transmission vehicle) or neutral (for manual transmission vehicle).
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 P (Park, for automatic transmission/dual clutch transmission vehicle) or 1st gear (for manual transmission vehicle) when the vehicle is parked on a uphill gradient 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 P (Park, for automatic transmission/dual clutch transmission vehicle) or neutral (for manual transmission vehicle), apply your brakes and hold the brake pedal down while 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/dual clutch 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 hitch. 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 hitch 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 while the coolant gauge indicates over-heating.**
(Keep the engine idle to cool down the engine)
- **When towing check automatic transmission/dual clutch transmission fluid more frequently.**
- **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 Tire and Loading Information Label and the Certification Label.

Before loading your vehicle, familiarize yourself with the following terms for determining your vehicle's weight ratings, from the vehicle's specifications and the Certification Label:

Base Curb Weight

This is the weight of the vehicle including a full tank of fuel and all standard equipment. It does not include passengers, cargo, or optional equipment.

Vehicle Curb Weight

This is the weight of your new vehicle when you picked it up from your dealer plus any aftermarket equipment.

Cargo Weight

This figure includes all weight added to the Base Curb Weight, including cargo and optional equipment.

GAW (Gross Axle Weight)

This is the total weight placed on each axle (front and rear) - including vehicle curb weight and all payload.

GAWR (Gross Axle Weight Rating)

This is the maximum allowable weight that can be carried by a single axle (front or rear). These numbers are shown on the Certification Label. The total load on each axle must never exceed its GAWR.

GVW (Gross Vehicle Weight)

This is the Base Curb Weight plus actual Cargo Weight plus passengers.

GVWR (Gross Vehicle Weight Rating)

This is the maximum allowable weight of the fully loaded vehicle (including all options, equipment, passengers and cargo). The GVWR is shown on the Certification Label located on the driver's door sill.

Overloading



WARNING

The Gross Axle Weight Rating (GAWR) and the Gross Vehicle Weight Rating (GVWR) for your vehicle are on the Certification Label attached to the driver's (or front passenger's) door. Exceeding these ratings can cause an accident or vehicle damage. You can calculate the weight of your load by weighing the items (and people) before putting them in the vehicle. Be careful not to overload your vehicle.

7. Driver assistance system

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Driving Convenience

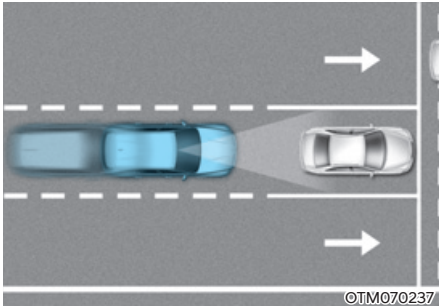
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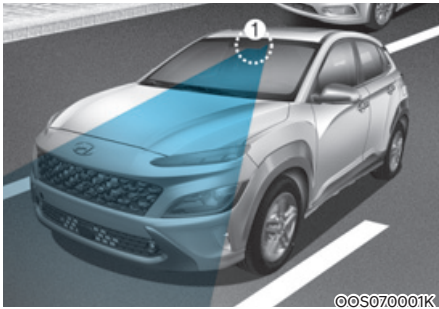
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FORWARD COLLISION-AVOIDANCE ASSIST (FCA) (FRONT VIEW CAMERA ONLY) (IF EQUIPPED)



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 and audible warning, and if necessary, apply 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 apply any impact on it.
- If the detecting sensor have been replaced or repaired, we recommend that you have your vehicle inspected by an authorized HYUNDAI dealer.
- **NEVER** install any accessories or stickers on the front windshield, or tint the front windshield.
- **Pay extreme caution** to keep the front view camera dry.
- **NEVER** place any reflective objects (i.e. white paper, mirror) over the dashboard. Any light reflection may prevent the system from functioning properly.


Forward Collision-Avoidance Assist settings


Setting features



Forward Safety

With the engine on, select or deselect 'Driver Assistance → Forward Safety' from the Settings menu to set whether or not to use each function.

- If 'Active Assist' is selected, the function 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.
- If 'Warning Only' is selected, the function 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, the system 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 the function is ON, we recommend that you have the function inspected by an HYUNDAI dealer.


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

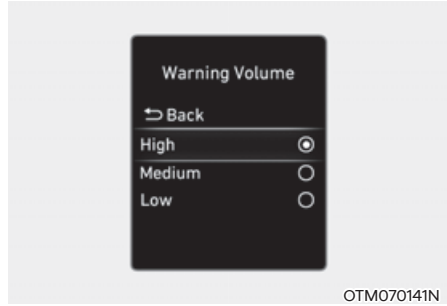
Forward Collision-Avoidance Assist will turn off when ESC is turned off by pressing and holding the ESC OFF button for more than 3 seconds. The  warning light will illuminate on the cluster.



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 time 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 initial warning activation time may not 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.

Forward Collision-Avoidance Assist operation

Basic function

Warning and control

The basic feature of Forward Collision-Avoidance Assist is to help warn and control the vehicle depending on collision level: 'Collision Warning', 'Emergency Braking' and 'Stopping vehicle and ending brake control'.



OTM070143N

Collision warning

- To warn the driver of a collision, the 'Collision Warning' warning message will appear on the 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 10~180 km/h (6~112 mph).
- If a pedestrian is detected in front, the function will operate when your vehicle speed is between approximately 10~60 km/h (6~37 mph).
- If 'Active Assist' is selected, braking may be assisted.



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Emergency braking

- To warn the driver that emergency braking will occur, the 'Emergency Braking' warning message will appear on the 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 10~60 km/h (6~37 mph).
- If a pedestrian is detected in front, the function will operate when your vehicle speed is between approximately 10~60 km/h (6~37 mph).
- In 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 cluster.
For your safety, the driver should depress the brake pedal immediately and check the surroundings.
- Brake control will end after the vehicle is stopped by emergency braking for approximately 2 seconds.



WARNING

Take the following precautions when using 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 for more than 3 seconds, Forward Collision-Avoidance Assist will turn off automatically. In this case, the function cannot be set from the Settings menu and the warning light will illuminate on the cluster which is normal. If ESC is turned on by pressing the ESC OFF button, Forward Collision-Avoidance Assist will maintain the last setting.
- Forward Collision-Avoidance Assist does not operate in all situations or cannot avoid all collisions.
- The driver should hold the responsibility to control the vehicle. Do not solely depend on Forward Collision-Avoidance Assist. Rather, maintain a safe braking distance, and, if necessary, depress the brake pedal to reduce driving speed or to stop the vehicle.
- Never deliberately operate Forward Collision-Avoidance Assist on people, animal, objects, etc. It may cause serious injury or death.
- Forward Collision-Avoidance Assist may not operate if the driver depresses the brake pedal to avoid collision.
- Depending on the road and driving conditions, Forward Collision-Avoidance Assist may warn the driver late or may not warn the driver.
- During Forward Collision-Avoidance Assist operation the vehicle may stop suddenly injuring passengers and shifting loose objects. Always have the seat belt on and keep loose objects secured.
- If any other function's warning message is displayed or audible warning is generated, Forward Collision-Avoidance Assist warning message may not be displayed and audible warning may not be generated.
- You may not hear the warning sound of Forward Collision-Avoidance Assist if the surrounding is noisy.
- Forward Collision-Avoidance Assist may turn off or may not operate properly or may operate unnecessarily depending on the road conditions and the surroundings.

WARNING

- Even if there is a problem with Forward Collision-Avoidance Assist, the vehicle's basic braking performance will operate normally.
- During emergency braking, braking control by the function will automatically cancel when the driver excessively depresses the accelerator pedal or sharply steers the vehicle.

CAUTION

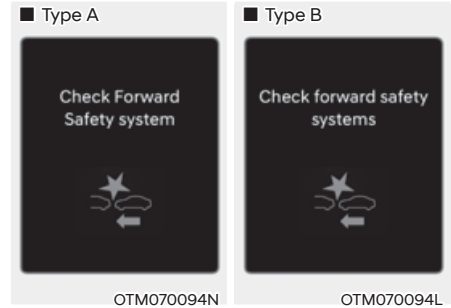
Forward Collision-Avoidance Assist operating speed range may reduce due to the conditions of the vehicle or pedestrian in front or surroundings. Depending on the speed, the function may only warn the driver, or the function may not operate.



Information

In a situation where collision is imminent, braking may be assisted by Forward Collision-Avoidance Assist when braking is insufficient by the driver.

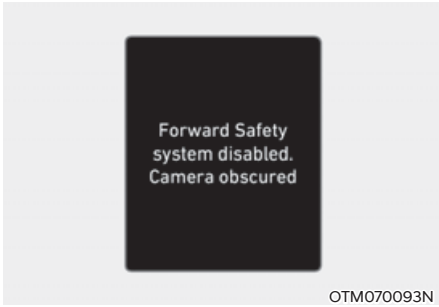
Forward Collision-Avoidance Assist malfunction and limitations

Forward Collision-Avoidance Assist malfunction





When Forward Collision-Avoidance Assist is not working properly, the 'Check Forward Safety system(s)' warning message will appear, and the  and  warning lights will illuminate on the cluster. We recommend that the function be inspected by an authorized HYUNDAI dealer.

Forward Collision-Avoidance Assist disabled



When the front windshield 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 cluster.

The function will operate normally when such snow, rain or foreign material is removed.

If the function does not operate normally after obstruction (snow, rain, or foreign material) is removed, we recommend that the function be inspected by an authorized HYUNDAI dealer.

WARNING

- **Even though the warning message or warning light does not appear on the cluster, Forward Collision-Avoidance Assist may not properly operate.**
- **Forward Collision-Avoidance Assist may not properly operate in an area (e.g. open terrain), where any substance are not detected after turning ON the engine.**

Limitations of Forward Collision-Avoidance Assist

Forward Collision-Avoidance Assist may not operate normally, or the system 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
- The camera lens is contaminated due to tinted, filmed or coated windshield, damaged glass, or stuck of foreign material (sticker, bug, etc.) on the glass
- Moisture is not removed or frozen on the windshield
- Washer fluid is continuously sprayed, or the wiper is on
- Driving in heavy rain or snow, or thick fog
- The field of view of the front view camera is obstructed by sun glare
- Street light or light from an oncoming vehicle is reflected on the wet road surface, such as a puddle on the road
- An object is placed on the dashboard
- Your vehicle is being towed
- The surrounding is very bright
- The surrounding is very dark, such as in a tunnel, etc.
- The brightness changes suddenly, for example when entering or exiting a tunnel
- The brightness outside is low, and the headlamps are not on or are not bright

- Driving through steam, smoke or shadow
- Only part of the vehicle, pedestrian or cyclist is detected
- The vehicle in front is a bus, heavy truck, truck with a unusually shaped luggage, trailer, etc.
- The vehicle in front has no tail lights, tail lights are located unusually, etc.
- The brightness outside is low, and the tail lamps are not on or are not bright
- The rear of the front vehicle is small or the vehicle does not look normal, such as when the vehicle is tilted, overturned, or the side of the vehicle is visible, etc.
- The front vehicle's ground clearance is low or high
- A vehicle 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 as a pedestrian



OADAS051

The illustration above shows the image the front view camera will detect as a vehicle and pedestrian.

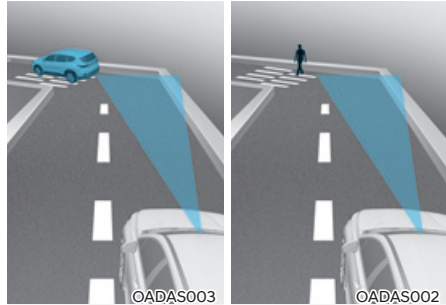
- The pedestrian in front is moving very quickly
- The pedestrian in front is short or is posing a low posture
- The pedestrian in front has impaired mobility
- The pedestrian in front is moving intersected with the driving direction

- 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 similar 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 through a roadside with trees or streetlights
- The adverse road conditions cause excessive vehicle vibrations while driving
- Your vehicle height is low or high due to heavy loads, abnormal tire pressure, etc.
- Driving through a narrow road where trees or grass or overgrown
- There is interference by electromagnetic waves such as driving in an area with strong radio waves or electrical noise



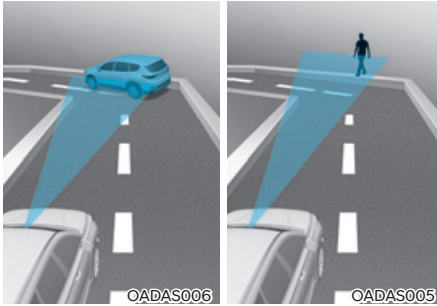
WARNING

- Driving on a curve



Forward Collision-Avoidance Assist may not detect other vehicles or pedestrians in front of you on curved roads adversely affecting the performance of the sensors. This may result in no warning or braking assist when necessary.

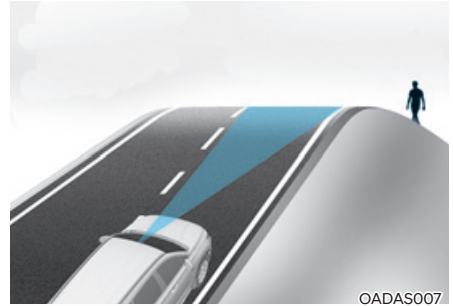
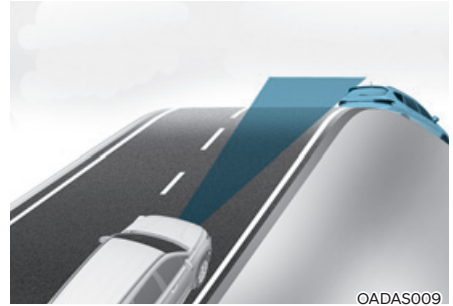
When driving on a curve, you must maintain a safe braking distance, and if necessary, steer the vehicle and depress the brake pedal to reduce your driving speed in order to maintain a safe distance.



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, the function may unnecessarily warn the driver and control the brake. Always check the traffic conditions around the vehicle.

- **Driving on a slope**



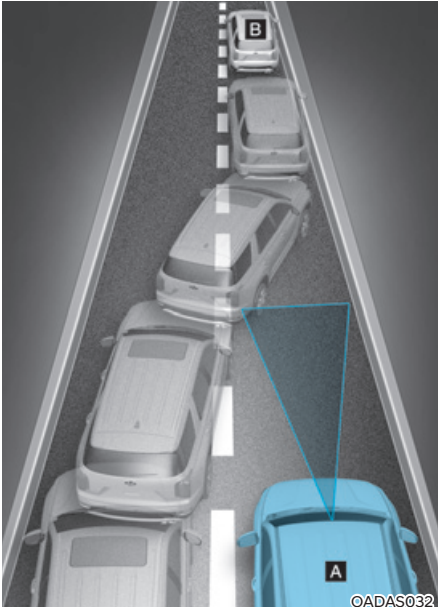
Forward Collision-Avoidance Assist may not detect other vehicles or pedestrians in front of you while driving uphill or downhill adversely affecting the performance of the sensors.

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.

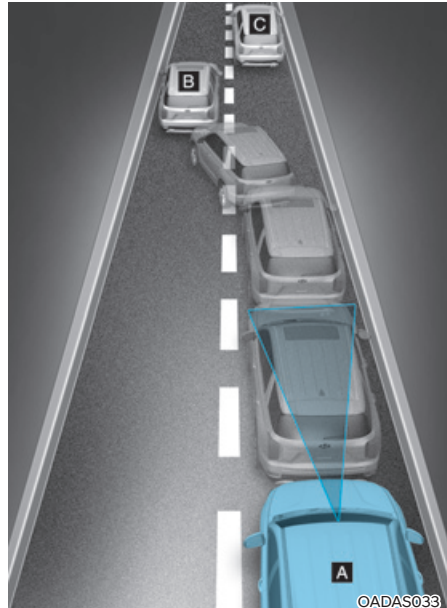
Always have your eyes on the road while driving uphill or downhill and if necessary, steer the vehicle and depress the brake pedal to reduce your driving speed in order to maintain a safe distance.

• Changing lanes



[A] : Your vehicle,
[B] : Lane changing vehicle

When a vehicle moves into your lane from an adjacent lane, it cannot be detected by the sensor until it is in the sensor's detection range. Forward Collision-Avoidance Assist may not immediately detect the vehicle when the vehicle changes lanes abruptly. In this case, you must maintain a safe braking distance, and if necessary, steer the vehicle and depress the brake pedal to reduce your driving speed in order to maintain a safe distance.

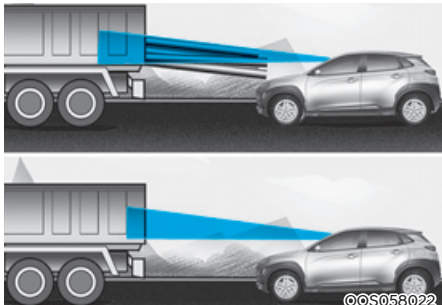


[A] : Your vehicle,
[B] : Lane changing vehicle,
[C] : Same lane vehicle

When a vehicle in front of you merges out of the lane, Forward Collision-Avoidance Assist may not immediately detect the vehicle that is now in front of you.

In this case, you must maintain a safe braking distance, and if necessary, steer the vehicle and depress the brake pedal to reduce your driving speed in order to maintain a safe distance.

- Detecting vehicle

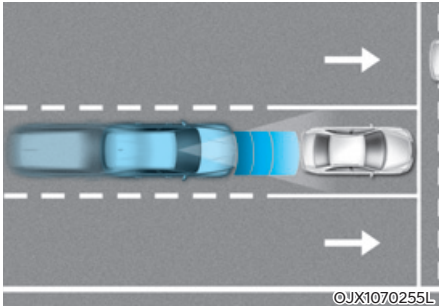


If the vehicle in front of you has cargo that extends rearward from the cab, or when the vehicle in front of you has higher ground clearance, additional special attention is required. Forward Collision-Avoidance Assist may not be able to detect the cargo extending from the vehicle. In these instances, you must maintain a safe braking distance from the rearmost object, and if necessary, steer the vehicle and depress the brake pedal to reduce your driving speed in order to maintain distance.

 **WARNING**

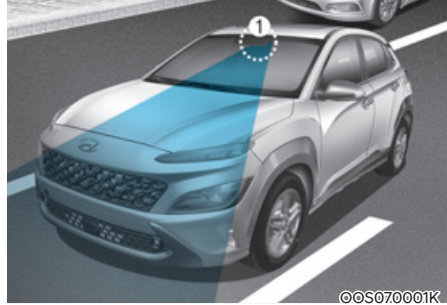
- When you are towing a trailer or another vehicle, we recommend that Forward Collision-Avoidance Assist is turned off due to safety reasons.
- Forward Collision-Avoidance Assist may operate if objects that are similar in shape or characteristics to vehicles and pedestrians are detected.
- Forward Collision-Avoidance Assist does not operate on bicycles, motorcycles, or smaller wheeled objects, such as luggage bags, shopping carts, or strollers.
- Forward Collision-Avoidance Assist may not operate normally if interfered by strong electromagnetic waves.
- Forward Collision-Avoidance Assist may not operate for 15 seconds after the vehicle is started, or the front view camera is initialized.

FORWARD COLLISION-AVOIDANCE ASSIST (FCA) (SENSOR FUSION) (IF EQUIPPED)



Forward Collision-Avoidance Assist is designed to help detect and monitor the vehicle ahead or help detect a pedestrian or cyclist in the roadway and warn the driver that a collision is imminent with a warning message and an audible warning, and if necessary, apply emergency braking.

Detecting sensor (Front view camera, Front radar)



- [1] : Front view camera,
- [2] : Front 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 detecting sensor or sensor assembly, or apply any impact on it.
 - If the detecting sensors have been replaced or repaired, we recommend that you have your vehicle inspected by an authorized HYUNDAI dealer.
 - Never install any accessories or stickers on the front windshield, or tint the front windshield.
 - Pay extreme caution to keep the front view camera dry.
 - Never place any reflective objects (i.e. white paper, mirror) over the dashboard. Any light reflection may prevent the system from functioning properly.
 - Do not apply license plate frame or objects, such as a bumper sticker, film or a bumper guard, near the front radar cover.
 - Always keep the front radar and cover clean and free of dirt and debris.
Use only a soft cloth to wash the vehicle. Do not spray pressurized water directly on the sensor or sensor cover.
- If unnecessary force has been applied to the radar or around the radar, Forward Collision-Avoidance Assist may not properly operate even though a warning message does not appear on the cluster. We recommend that the vehicle be inspected by an authorized HYUNDAI dealer.
 - Use only genuine parts to repair or replace a damaged front radar cover. Do not apply paint to the front radar cover.


Forward Collision-Avoidance Assist settings


Setting features



Forward Safety

With the engine on, select or deselect 'Driver Assistance → Forward Safety' from the Settings menu to set whether or not to use each function.

- If 'Active Assist' is selected, the function 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.
- If 'Warning Only' is selected, the function 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, the function 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 the function is ON, we recommend that the function be inspected by an authorized HYUNDAI dealer.


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.
- The settings for Forward Safety include 'Basic function'.

Information

Forward Collision-Avoidance Assist will turn off when ESC is turned off by pressing and holding the ESC OFF button for more than 3 seconds. The  warning light will illuminate on the cluster.

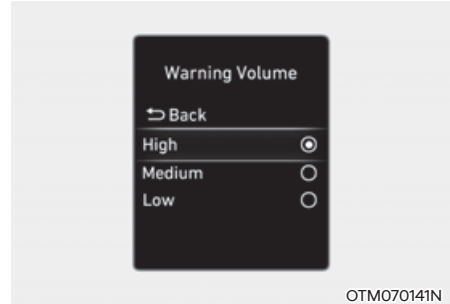


OTM070140N

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 time of other Driver Assistance systems may change.



OTM070141N

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 initial warning activation time may not 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.

Forward Collision-Avoidance Assist operation

Basic function

Warning and control

The basic function for Forward Collision-Avoidance Assist is to help warn and control the vehicle depending on the collision level: 'Collision Warning', 'Emergency Braking' and 'Stopping vehicle and ending brake control'.



Collision Warning

- To warn the driver of a collision, the 'Collision Warning' warning message will appear on the cluster and an audible warning will sound.
- If a vehicle is detected in front, the function will operate when your vehicle speed is between approximately 10~180 km/h (6~112 mph).
- If a pedestrian or cyclist is detected in front, the function will operate when your vehicle speed is between approximately 10~85 km/h (6~53 mph).
- If 'Active Assist' is selected, braking may be assisted.



Emergency Braking

- To warn the driver that emergency braking will be assisted, the 'Emergency Braking' warning message will appear on the 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 10~75 km/h (6~47 mph).
- If a pedestrian or cyclist is detected in front, the function will operate when your vehicle speed is between approximately 10~65 km/h (6~40 mph).
- In emergency braking situation, braking is assisted with strong braking power by the function to help prevent collision with the vehicle, pedestrian or cyclist ahead.



Stopping vehicle and ending brake control

- When the vehicle is stopped due to emergency braking, the 'Drive carefully' warning message will appear on the cluster.
For your safety, the driver should depress the brake pedal immediately and check the surroundings.
- Brake control will end after the vehicle is stopped by emergency braking for approximately 2 seconds.

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 for more than 3 seconds, Forward Collision-Avoidance Assist will turn off automatically. In this case, the function cannot be set from the Settings menu and the warning light will illuminate on the cluster which is normal. If ESC is turned on by pressing the ESC OFF button, Forward Collision-Avoidance Assist will maintain the last setting.
- Forward Collision-Avoidance Assist does not operate in all situations or cannot avoid all collisions.
- The driver should hold the responsibility to control the vehicle. Do not solely depend on Forward Collision-Avoidance Assist. Rather, maintain a safe braking distance, and if necessary, depress the brake pedal to reduce driving speed or to stop the vehicle.
- Never deliberately operate Forward Collision-Avoidance Assist on people, animal, objects, etc. It may cause serious injury or death.
- Forward Collision-Avoidance Assist may not operate if the driver depresses the brake pedal to avoid collision.
- Depending on the road and driving conditions, Forward Collision-Avoidance Assist may warn the driver late or may not warn the driver.

- During Forward Collision-Avoidance Assist operation, the vehicle may stop suddenly injuring passengers and shifting loose objects. Always have the seat belt on and keep loose objects secured.
- If any other system's warning message is displayed or audible warning is generated, Forward Collision-Avoidance Assist warning message may not be displayed and audible warning may not be generated.
- You may not hear the warning sound of Forward Collision-Avoidance Assist if the surrounding is noisy.
- Forward Collision-Avoidance Assist may turn off or may not operate properly or may operate unnecessarily depending on the road conditions and the surroundings.



WARNING

- Even if there is a problem with Forward Collision-Avoidance Assist, the vehicle's basic braking performance will operate normally.
- During emergency braking, braking control by the system will automatically cancel when the driver excessively depresses the accelerator pedal or sharply steers the vehicle.



CAUTION

- Forward Collision-Avoidance Assist operating speed range may reduce due to the conditions of the vehicle or pedestrian in front or surroundings. Depending on the speed, the system may only warn the driver, or the system may not operate.
- Forward Collision-Avoidance Assist will operate under certain conditions by judging the risk level based on the condition of the oncoming vehicle, driving direction, speed and surroundings.

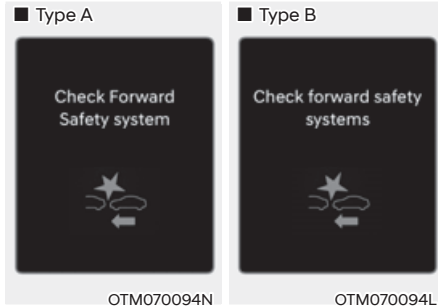




Information

In a situation where collision is imminent, braking may be assisted by Forward Collision-Avoidance Assist when braking is insufficient by the driver.

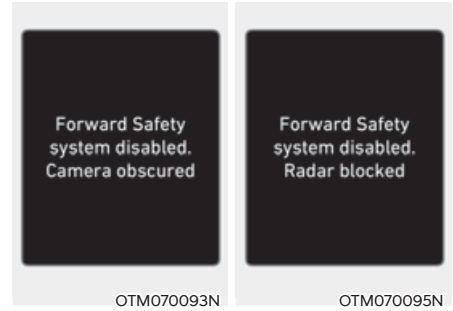
Forward Collision-Avoidance Assist malfunction and limitations

Forward Collision-Avoidance Assist malfunction





When Forward Collision-Avoidance Assist is not working properly, the 'Check Forward Safety system(s)' warning message will appear, and the  and  warning lights will illuminate on the cluster. We recommend that the function be inspected by an authorized HYUNDAI dealer.

Forward Collision-Avoidance Assist disabled



When the front windshield where the front view camera is located, front radar cover, or sensor is covered with foreign material, such as snow or rain, it can reduce the detecting performance and temporarily limit or disable Forward Collision-Avoidance Assist.

If this occurs the 'Forward Safety system(s) disabled. Camera obscured' or the 'Forward Safety system(s) disabled. Radar blocked' warning message, and the  and  warning lights will illuminate on the cluster.

The function will operate normally when such snow, rain or foreign material is removed.

If the function does not operate normally after obstruction (snow, rain, or foreign material) is removed, we recommend that the function be inspected by an authorized HYUNDAI dealer.



WARNING

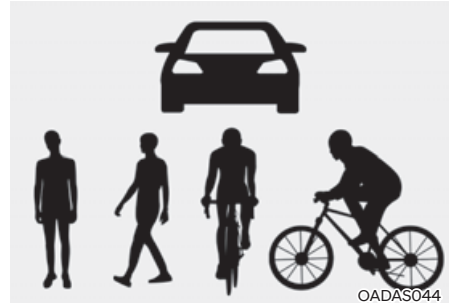
- **Even though the warning message or warning light does not appear on the cluster, Forward Collision-Avoidance Assist may not properly operate.**
- **Forward Collision-Avoidance Assist may not properly operate in an area (e.g. open terrain), where any substance are not detected after turning ON the engine.**

Limitations of Forward Collision-Avoidance Assist

Forward Collision-Avoidance Assist may not operate normally, or the system 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
- The camera lens is contaminated due to tinted, filmed or coated windshield, damaged glass, or stuck of foreign material (sticker, bug, etc.) on the glass
- Moisture is not removed or frozen on the windshield
- Washer fluid is continuously sprayed, or the wiper is on
- Driving in heavy rain or snow, or thick fog
- The field of view of the front view camera is obstructed by sun glare
- Street light or light from an oncoming vehicle is reflected on the wet road surface, such as a puddle on the road
- An object is placed on the dashboard
- Your vehicle is being towed
- The surrounding is very bright
- The surrounding is very dark, such as in a tunnel, etc.
- The brightness changes suddenly, for example when entering or exiting a tunnel
- The brightness outside is low, and the headlamps are not on or are not bright
- Driving through steam, smoke or shadow
- Only part of the vehicle, pedestrian or cyclist is detected
- The vehicle in front is a bus, heavy truck, truck with a unusually shaped luggage, trailer, etc.
- The vehicle in front has no tail lights, tail lights are located unusually, etc.
- The brightness outside is low, and the tail lamps are not on or are not bright
- The rear of the front vehicle is small or the vehicle does not look normal, such as when the vehicle is tilted, overturned, or the side of the vehicle is visible, etc.
- The front vehicle's ground clearance is low or high
- A vehicle, pedestrian or cyclist suddenly cuts in front
- The bumper around the front radar is impacted, damaged or the front radar is out of position
- The temperature around the front radar is high or low

- Driving through a tunnel or iron bridge
- Driving in large areas where there are few vehicles or structures (i.e. desert, meadow, suburb, etc.)
- Driving near areas containing metal substances, such as a construction zone, railroad, etc.
- A material is near that reflects very well on the front radar, such as a guardrail, nearby vehicle, etc.
- The cyclist in front is on a bicycle made of material that does not reflect on the front radar
- The vehicle in front is detected late
- The vehicle in front is suddenly blocked by an obstacle
- The vehicle in front suddenly changes lane or suddenly reduces speed
- The vehicle in front is bent out of shape
- The front vehicle's speed is fast or slow
- The vehicle in front steers in the opposite direction of your vehicle to avoid a collision
- With a vehicle in front, your vehicle changes lane at low speed
- The vehicle in front is covered with snow
- You are departing or returning to the lane
- Unstable driving
- You are on a roundabout and the vehicle in front is not detected
- You are continuously driving in a circle
- The vehicle in front has an unusual shape
- The vehicle in front is driving uphill or downhill
- The pedestrian or cyclist is not fully detected, for example, if the pedestrian is leaning over or is not fully walking upright
- The pedestrian or cyclist is wearing clothing or equipment that makes it difficult to detect as a pedestrian or cyclist



The illustration above shows the image the front view camera will detect as a vehicle, pedestrian and cyclist.

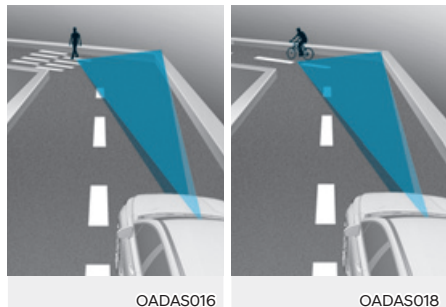
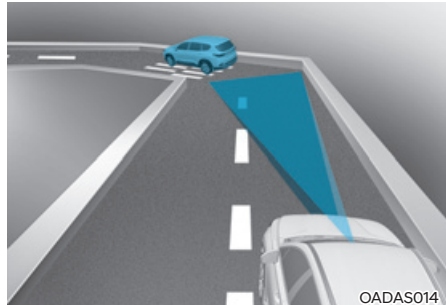
- The pedestrian or cyclist in front is moving very quickly
- The pedestrian or cyclist in front is short or is posing a low posture
- The pedestrian or cyclist in front has impaired mobility
- The pedestrian or cyclist in front is moving intersected with the driving direction
- There is a group of pedestrians, cyclists or a large crowd in front

- The pedestrian or cyclist is wearing clothing that easily blends into the background, making it difficult to detect
- The pedestrian or cyclist is difficult to distinguish from the similar shaped structure in the surroundings
- You are driving by a pedestrian, cyclist, traffic 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 through a roadside with trees or streetlights
- The adverse road conditions cause excessive vehicle vibrations while driving
- Your vehicle height is low or high due to heavy loads, abnormal tire pressure, etc.
- Driving through a narrow road where trees or grass are overgrown
- There is interference by electromagnetic waves, such as driving in an area with strong radio waves or electrical noise



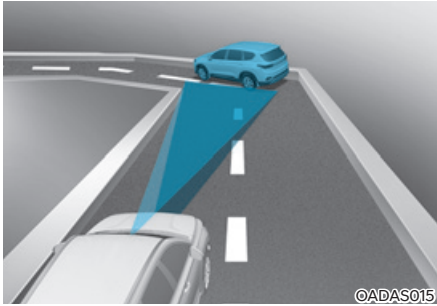
WARNING

- Driving on a curve



Forward Collision-Avoidance Assist may not detect other vehicles, pedestrians or cyclists in front of you on curved roads adversely affecting the performance of the sensors. This may result in no warning or braking assist when necessary.

When driving on a curve, you must maintain a safe braking distance, and if necessary, steer the vehicle and depress the brake pedal to reduce your driving speed in order to maintain a safe distance.



OADAS015



OADAS017



OADAS019

Forward Collision-Avoidance Assist may detect a vehicle, pedestrian or cyclist in the next lane or outside the lane when driving on a curved road. If this occurs, the system may unnecessarily warn the driver and control the brake. Always check the traffic conditions around the vehicle.

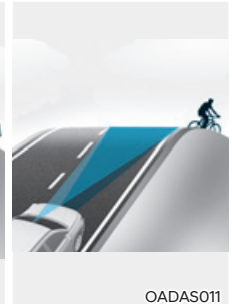
- **Driving on a slope**



OADAS012



OADAS010



OADAS011

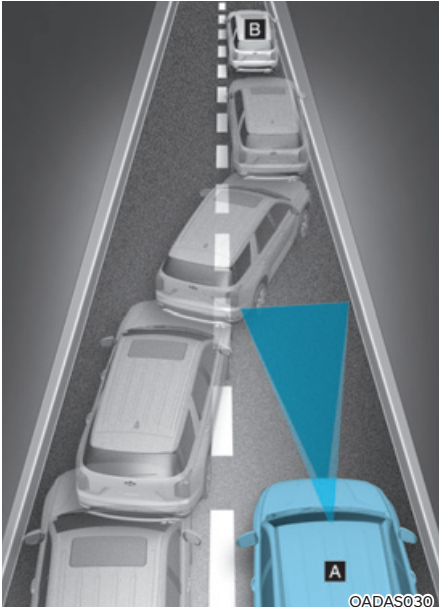
Forward Collision-Avoidance Assist may not detect other vehicles, pedestrians or cyclists in front of you while driving uphill or downhill adversely affecting the performance of the sensors.

This may result in unnecessary warning or braking assist, or no warning or braking assist when necessary.

Also, vehicle speed may rapidly decrease when a vehicle, pedestrian or cyclist ahead is suddenly detected.

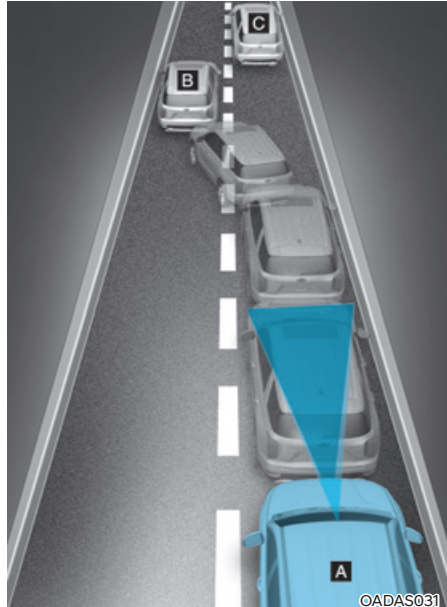
Always have your eyes on the road while driving uphill or downhill and if necessary, steer your vehicle and depress the brake pedal to reduce your driving speed in order to maintain a safe distance.

- Changing lanes



[A] : Your vehicle,
[B] : Lane changing vehicle

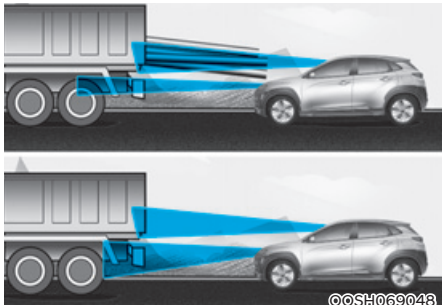
When a vehicle moves into your lane from an adjacent lane, it cannot be detected by the sensor until it is in the sensor's detection range. Forward Collision-Avoidance Assist may not immediately detect the vehicle when the vehicle changes lanes abruptly. In this case, you must maintain a safe braking distance, and if necessary, steer your vehicle and depress the brake pedal to reduce your driving speed in order to maintain a safe distance.



[A] : Your vehicle, [B] : Lane changing vehicle,
[C] : Same lane vehicle

When a vehicle in front of you merges out of the lane, Forward Collision-Avoidance Assist may not immediately detect the vehicle that is now in front of you. In this case, you must maintain a safe braking distance, and if necessary, steer your vehicle and depress the brake pedal to reduce your driving speed in order to maintain a safe distance.

- Detecting vehicle



If the vehicle in front of you has cargo that extends rearward from the cab, or when the vehicle in front of you has higher ground clearance, additional special attention is required. Forward Collision-Avoidance Assist may not be able to detect the cargo extending from the vehicle. In these instances, you must maintain a safe braking distance from the rearmost object, and if necessary, steer your vehicle and depress the brake pedal to reduce your driving speed in order to maintain distance.

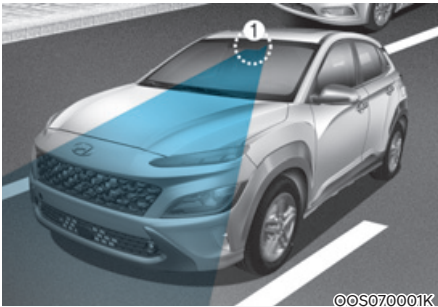
WARNING

- When you are towing a trailer or another vehicle, we recommend that Forward Collision-Avoidance Assist is turned off due to safety reasons.
- Forward Collision-Avoidance Assist may operate if objects that are similar in shape or characteristics to vehicles, pedestrians and cyclists are detected.
- Forward Collision-Avoidance Assist does not operate on bicycles, motorcycles, or smaller wheeled objects, such as luggage bags, shopping carts, or strollers.
- Forward Collision-Avoidance Assist may not operate normally if interfered by strong electromagnetic waves.
- Forward Collision-Avoidance Assist may not operate for 15 seconds after the vehicle is started, or the front view camera is initialized.

LANE KEEPING ASSIST (LKA) (IF EQUIPPED)

Lane Keeping Assist is designed to help detect lane markings (or road edges) while driving over a certain speed. The function 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 (Front view camera)



[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 chapter 7.


Lane Keeping Assist settings

Setting features



Lane Safety

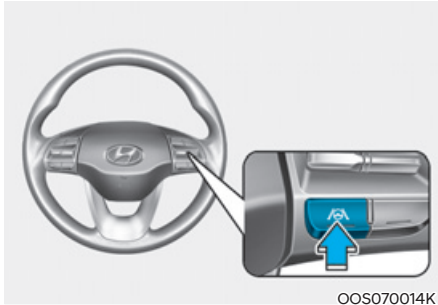
With the engine on, select or deselect 'Driver Assistance → Lane Safety' from the Settings menu to set whether or not to use each function.



- If 'Assist' is selected, the function 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, the function will warn the driver with an audible warning when lane departure is detected. The driver must steer the vehicle.
- If 'Off' is selected, the function will turn off. The  indicator light will turn off on the cluster.

WARNING

- If 'Warning Only' is selected, steering is not assisted.
- Lane Keeping Assist does not control the steering wheel when the vehicle is driven in the middle of the lane.
- The driver should always be aware of the surroundings and steer the vehicle if 'Off' is selected.

Turning the function On/Off (Lane Driving Assist button)

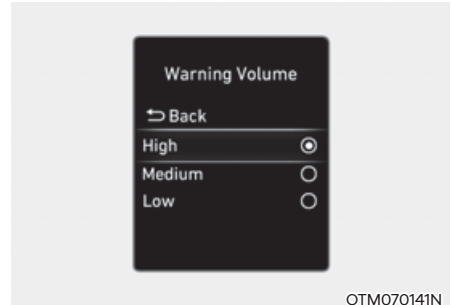


- Except Europe
With the engine on, press and hold the Lane Driving Assist button located on the steering wheel to turn on Lane Keeping Assist. The white  indicator light will illuminate on the cluster.
Press the button again to turn off the system.
If the engine is restarted, Lane Keeping Assist will maintain the last setting.
- For Europe
Whenever the engine is turned on, Lane Keeping Assist will always turn on. The white  indicator light will illuminate on the cluster.
When Lane Keeping Assist is on, press and hold the Lane Driving Assist button to turn off the function.



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 changed.

Lane Keeping Assist operation

Warning and control

Lane Keeping Assist will help warn and control the vehicle with Lane Departure Warning and Lane Keeping Assist.

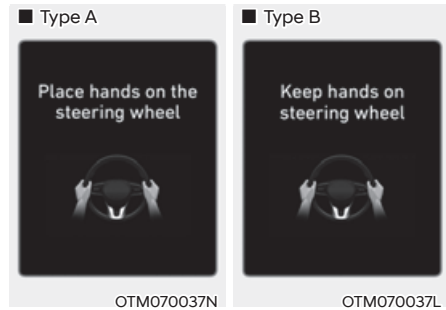


Lane Departure Warning

- To warn the driver that the vehicle is departing from the projected lane in front, the green indicator light will blink on the cluster, the lane line will blink on the cluster depending on which direction the vehicle is veering, and an audible warning will sound.
- The function will operate when your vehicle speed is between approximately 60~200 km/h (40~120 mph).

Lane Keeping Assist

- To warn the driver that the vehicle is departing from the projected lane in front, the green indicator light will blink on the cluster, and the steering wheel will make adjustments to keep the vehicle inside the lane.
- The function will operate when your vehicle speed is between approximately 60~200 km/h (40~120 mph).




Hands-off warning

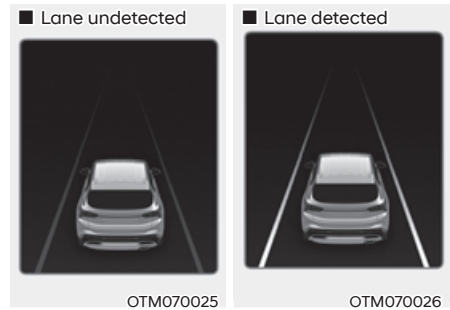
If the driver takes their hands off the steering wheel for several seconds, the 'Place hands on the steering wheel' (or 'Keep hands on the steering wheel') warning message will appear on the cluster, and an audible warning will sound in stages.

WARNING

- The steering wheel may not be assisted if the steering wheel is held very tight or the steering wheel is steered over a certain degree.
- Lane Keeping Assist does not operate at all times. It is the responsibility of the driver to safely steer the vehicle and to maintain the vehicle in its lane.
- The hands-off warning message may appear late depending on road conditions. Always have your hands on the steering wheel while driving.
- If the steering wheel is held very lightly, the hands-off warning message may appear because the function may not recognize that the driver has their hands on the steering wheel.
- If you attach objects to the steering wheel, the hands-off warning may not work properly.

Information

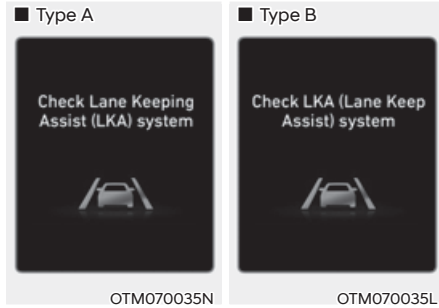
- You may change settings from the instrument cluster (User Settings) or infotainment system (Vehicle Settings), whichever option that is provided with your vehicle. For more details, see "User Settings" section in chapter 4, or "Vehicle Settings" section in supplied Infotainment Manual.
- When lane 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.




- 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.

Lane Keeping Assist malfunction and limitations

Lane Keeping Assist malfunction



When Lane Keeping Assist is not working properly, the 'Check Lane Keeping Assist (LKA) system' (or 'Check LKA (Lane Keeping Assist) system') warning message will appear and the yellow  indicator light will illuminate on the cluster. If this occurs, we recommend that the function be inspected by an authorized HYUNDAI dealer.

WARNING

Take the following precautions when using Lane Keeping Assist:

- The driver should hold the responsibility to safely drive and control the vehicle. Do not solely rely on the system and drive dangerously.
- The operation of Lane Keeping Assist can be cancelled or not work properly depending on road conditions and surroundings. Always be cautious while driving.
- Refer to "Limitations of the Function" if the lane is not detected properly.
- When you are towing a trailer or another vehicle, we recommend that Lane Keeping Assist is turned off due to safety reasons.

- If the vehicle is driven at high speed, the steering wheel will not be controlled. The driver must always follow the speed limit when using the function.
- If any other system's warning message is displayed or audible warning is generated, Lane Keeping Assist warning message may not be displayed and audible warning may not be generated.
- You may not hear the warning sound of Lane Keeping Assist if the surrounding is noisy.
- If you attach objects to the steering wheel, steering may not be assisted properly.
- Lane Keeping Assist may not operate for 15 seconds after the vehicle is started, or the front view camera is initialized.
- Lane Keeping Assist will not operate when:
 - The turn signal or hazard warning flasher is turned on
 - The vehicle is not driven in the center of the lane when the system is turned on or right after changing a lane
 - ESC (Electronic Stability Control) or VSM (Vehicle Stability Management) is activated
 - The vehicle is driven on a sharp curve
 - Vehicle speed is below 55 km/h (35 mph) or above 210 km/h (130 mph)
 - The vehicle makes sharp lane changes
 - The vehicle brakes suddenly

Limitations of Lane Keeping Assist malfunction

Lane Keeping Assist may not operate normally or may operate unexpectedly under the following circumstances:

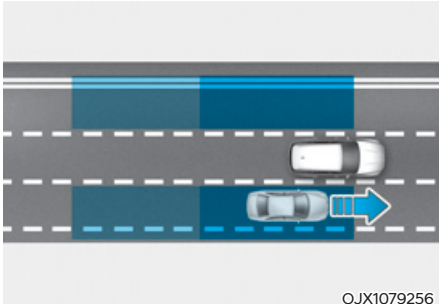
- The lane is contaminated or difficult to distinguish because,
 - The lane markings (or road edge) is covered with rain, snow, dirt, oil, etc.
 - The color of the lane marking (or road edge) is not distinguishable from the road
 - There are markings (or road edges) on the road near the lane or the markings (or road edges) on the road looks similar to the lane markings (or road edge)
 - The lane marking (or road edge) is indistinct or damaged
 - The shadow is on the lane marking (or road edge) by a median strip, trees, guardrail, noise barriers, etc.
- 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 the intersection
- The lane (or road width) is very wide or narrow

- There is a road edge without a lane
- There is a boundary structure in the roadway, such as a tollgate, sidewalk, curb, etc.
- The distance to the front vehicle is extremely short or the vehicle in front is covering the lane marking (or road edge)

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

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.

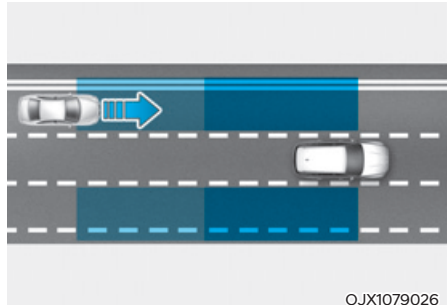


Blind-Spot Collision Warning helps detect and inform the driver that a vehicle is in the blind spot.



CAUTION

The detecting range may vary depending on the speed of your vehicle. However, even if there is a vehicle in the blind spot, the system may not warn you when you pass by at high speed.



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.



Information

In the following text, Blind-Spot Collision Warning will be referred as Blind-Spot Safety system.

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 apply any impact on it.
- If the rear corner radars have been replaced or repaired, we recommend that the vehicle be inspected by an authorized HYUNDAI dealer.
- If there is impact on the rear corner radar or near the radar, even though the warning message does not appear on the cluster, Blind-Spot Safety system may not operate properly. We recommend that the system be inspected by an authorized HYUNDAI dealer.
- Use only genuine parts to repair the rear bumper where the rear corner radar is located.
- Do not apply license plate frame or objects, such as a bumper sticker, film or a bumper guard near the rear corner radar.

- The system may not work properly if the bumper has been replaced, or the surroundings of the rear corner radar has been damaged or paint has been applied.
- If a trailer, carrier, etc. is installed, it may adversely affect the performance of the rear corner radar or the system may not operate.

Blind-Spot Safety system settings

Setting features



OTM070202N

Blind-Spot Safety

With the engine on, select or deselect 'Driver Assistance → Blind-Spot Safety' from the Settings menu to set whether or not to use each function.

- If 'Warning Only' is selected, the function 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, the function will turn off.



When the engine is restarted with the function 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 the function is set to '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

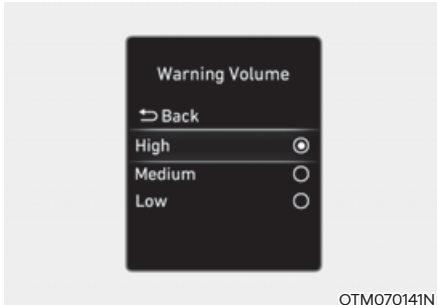
If the engine is restarted, Blind-Spot Safety system will maintain the last setting.



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 Safety system.

When the vehicle is first delivered, Warning Timing is set to 'Normal'. If you change the Warning Timing, the warning time of other Driver Assistance systems may change.



Warning Volume

With the engine on, select 'Driver Assistance → Warning Volume' from the Settings menu to change the Warning Volume to 'High', 'Medium' or 'Low' for Blind-Spot Safety system.

If you change the Warning Volume, the warning volume of other Driver Assistance systems may change.

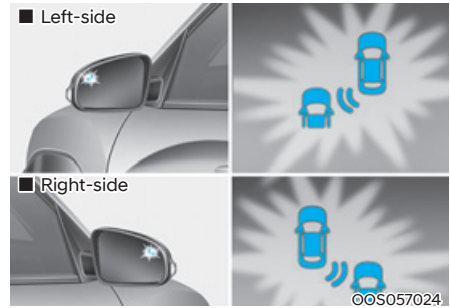


CAUTION

- **The setting of the Warning Timing and Warning Volume applies to all functions of the Blind-Spot Safety system.**
- **Even though 'Normal' is selected for Warning Timing, if the vehicles approaches at high speed, the initial warning activation time may seem late.**
- **Select 'Late' for Warning Timing when traffic is light and when driving speed is slow.**

Blind-Spot Safety system operation

Warning and control



Vehicle detection

- To warn the driver a vehicle is detected, the warning light on the outside rearview mirror and head-up display (if equipped) will illuminate.
- The function will operate when your vehicle speed is above 20 km/h (12 mph) and the speed of the vehicle in the blind spot area is above 10 km/h (7 mph).

Collision warning

- Collision warning will operate when the turn signal is turned on in the direction of the detected vehicle.
- To warn the driver of a collision, the warning light on the outside rearview mirror and head-up display (if equipped) will blink. At the same time, an audible warning will sound.
- When the turn signal is turned off or you move away from the lane, the collision warning will be canceled and the system 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, the function may detect other vehicles in the next next lane and warn you. In contrast, on a wide road, the function 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.



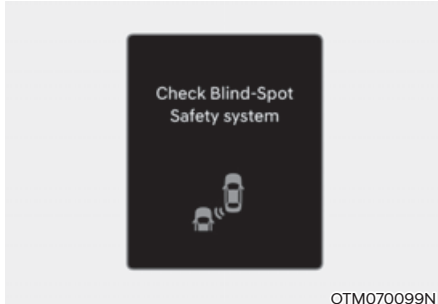
WARNING

Take the following precautions when using Blind-Spot Safety system:

- For your safety, change the Settings after parking the vehicle at a safe location.
- If any other function's warning message is displayed or audible warning is generated, Blind-Spot Safety system's warning message may not be displayed and audible warning may not be generated.
- You may not hear the warning sound of Blind-Spot Safety system if the surrounding is noisy.
- Blind-Spot Safety system 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 Safety system. Maintain a safe braking distance, and if necessary, depress the brake pedal to reduce driving speed or to stop the vehicle.

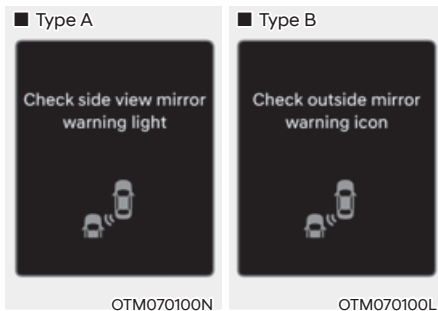
Blind-Spot Safety system malfunction and limitations

Blind-Spot Safety system malfunction



OTM070099N

When Blind-Spot Safety system is not working properly, the 'Check Blind-Spot Safety system(s)' warning message will appear on the cluster, and the function will turn off automatically, or the function will be limited. We recommend that the function be inspected by an authorized HYUNDAI dealer.

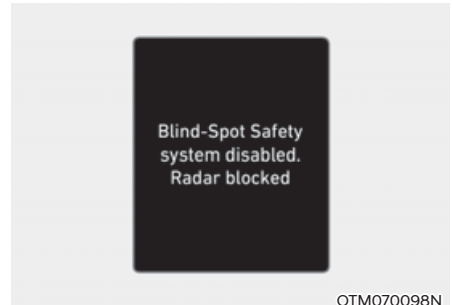


OTM070100N

OTM070100L

When the outside rearview mirror warning light is not working properly, the 'Check side view mirror warning light' (or 'Check outside mirror warning icon') warning message will appear on the cluster. We recommend that the function be inspected by an authorized HYUNDAI dealer.

Blind-Spot Safety system disabled



OTM070098N

When the rear bumper around the rear corner radar or sensor is covered with foreign material, such as snow or rain, or installing a trailer or carrier, it can reduce the detecting performance and temporarily limit or disable Blind-Spot Safety system.

If this occurs, the 'Blind-Spot Safety system(s) disabled. Radar blocked' warning message will appear on the cluster.

The function will operate normally when such foreign material or trailer, etc. is removed, and then the engine is restarted.

If the system does not operate normally after it is removed, we recommend that the function be inspected by an authorized HYUNDAI dealer.



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 (e.g. open terrain), where any substance 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 Safety system to install a trailer, carrier, etc., or remove the trailer, carrier, etc. to use Blind-Spot Safety system.

Limitations of Blind-Spot Safety system

Blind-Spot Safety system may not operate normally, or the system may operate unexpectedly under the following circumstances:

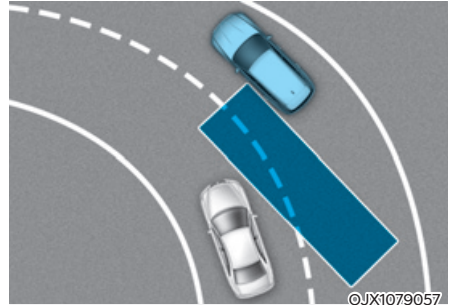
- There is inclement weather, such as heavy snow, heavy rain, etc.
- The rear corner radar is covered with snow, rain, dirt, etc.
- The temperature around the rear corner radar is high or low
- Driving on a highway (or motorway) ramp
- The road pavement (or the peripheral ground) abnormally contains metallic components (i.e. possibly due to subway construction)
- There is a fixed object near the vehicle, such as sound barriers, guardrails, central dividers, entry barriers, street lamps, signs, tunnels, walls, etc. (including double structures)
- Driving in large areas where there are few vehicles or structures (i.e. desert, meadow, suburb, etc.)
- Driving through a narrow road where trees or grass are overgrown
- Driving on a wet road surface, such as a puddle on the road
- The other vehicle drives very close behind your vehicle, or the other vehicle passes by your vehicle in close proximity
- The speed of the other vehicle is very fast that it passes by your vehicle in a short time
- Your vehicle passes by the other vehicle
- Your vehicle changes lane
- Your vehicle has started at the same time as the vehicle next to you and has accelerated
- The vehicle in the next lane moves two lanes away from you, or when the vehicle two lanes away moves to the next lane from you
- A trailer or carrier is installed around the rear corner radar
- The bumper around the rear corner radar is covered with objects, such as a bumper sticker, bumper guard, bike rack, etc.
- The bumper around the rear corner radar is impacted, damaged or the radar is out of position
- Your vehicle height is low or high due to heavy loads, abnormal tire pressure, etc.

Blind-Spot Safety system may not operate normally, or the system 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

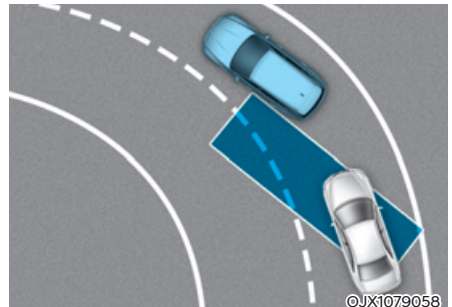
 **WARNING**

- **Driving on a curve**



Blind-Spot Safety system may not operate properly when driving on a curved road. The function may not detect the vehicle in the next lane.

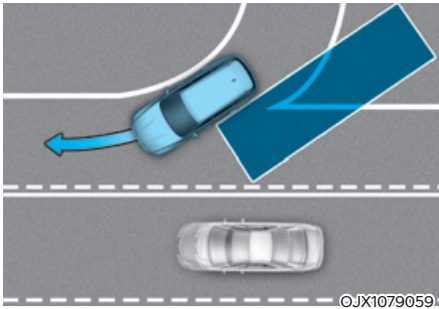
Always pay attention to road and driving conditions while driving.



Blind-Spot Safety system may not operate properly when driving on the curved road. The system may recognize the vehicle in the same lane.

Always pay attention to road and driving conditions while driving.

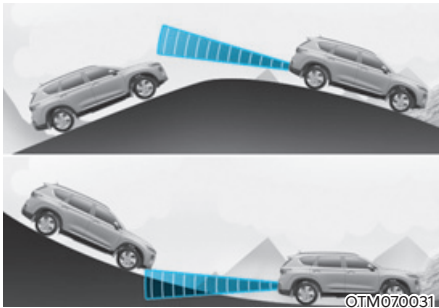
- Driving where the road is merging/dividing



Blind-Spot Safety system may not operate properly when driving where the road merges or divides. The system may not detect the vehicle in the next lane.

Always pay attention to road and driving conditions while driving.

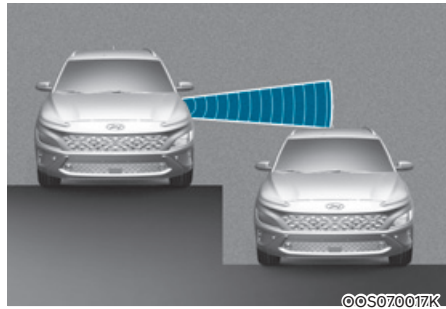
- Driving on a slope



Blind-Spot Safety system may not operate properly when driving on a slope. The system may not detect the vehicle in the next lane or may incorrectly detect the ground or structure.

Always pay attention to road and driving conditions while driving.

- Driving where the heights of the lanes are different



Blind-Spot Safety system may not operate properly when driving where the heights of the lanes are different. The function may not detect the vehicle on a road with different lane heights (underpass joining section, grade separated intersections, etc.).

Always pay attention to road and driving conditions while driving.

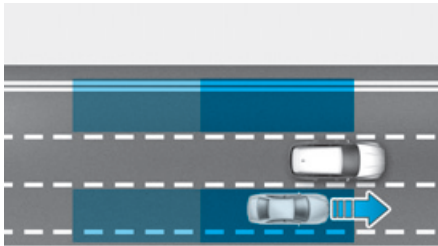
 **WARNING**

- When you are towing a trailer or another vehicle, make sure that you turn off Blind-Spot Safety system.
- Blind-Spot Safety system may not operate normally if interfered by strong electromagnetic waves.
- Blind-Spot Safety system may not operate for 15 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, the function will help avoid a collision by applying the brake.

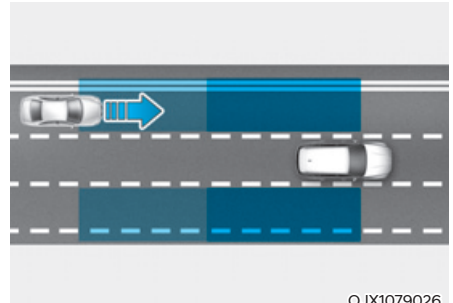


OJX1079256

Blind-Spot Collision-Avoidance Assist helps detect and inform the driver that a vehicle is in the blind spot.

CAUTION

The detecting range may vary depending on the speed of your vehicle. However, even if there is a vehicle in the blind spot area, the function may not warn you when you pass by at high speeds.

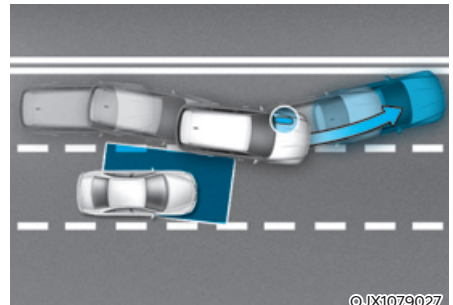


OJX1079026

Blind-Spot Collision Assist helps detect and informs the driver that a vehicle is approaching at high speed from the blind spot area.

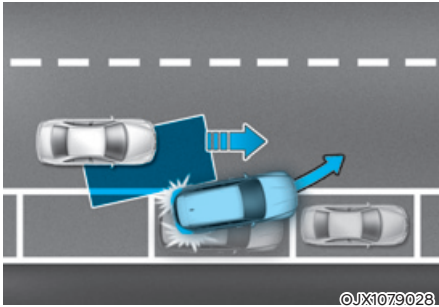
CAUTION

Warning timing may vary depending on the speed of the vehicle approaching at high speed.



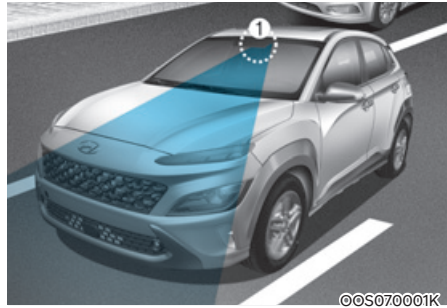
OJX1079027

When changing lanes by detecting the lane ahead, if the function judges that there is a collision risk with an approaching vehicle in the blind spot, the function will help avoid a collision by applying the brake.



When you are driving forward out of a parking space, if the function judges that there is a collision risk with an approaching vehicle in the blind spot, the function will help avoid a collision by applying the brake.

Detecting sensor (Front view camera, Rear corner radar)



[1] : Front view camera,
[2] : Rear corner radar

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

CAUTION

Take the following precautions to maintain optimal performance of the detecting sensor:

- Never disassemble the rear corner radar or radar assembly, or apply any impact on it.
- If there is impact on the rear corner radar or near the radar, even though the warning message does not appear on the cluster, Blind-Spot Collision-Avoidance Assist may not operate properly. We recommend that the function be inspected by an authorized HYUNDAI dealer.

- If the rear corner radars have been replaced or repaired, we recommend that the vehicle be inspected by an authorized HYUNDAI dealer.
- Use only genuine parts to repair the rear bumper where the rear corner radar is located.
- Do not apply license plate frame or objects, such as a bumper sticker, film or a bumper guard near the rear corner radar.
- Blind-Spot Collision-Avoidance Assist may not work properly if the bumper has been replaced, or the surroundings of the rear corner radar has been damaged or paint has been applied.
- If a trailer, carrier, etc. is installed, it may adversely affect the performance of the rear corner radar or Blind-Spot Collision-Avoidance Assist may not operate.

For more details on the precautions of the front view camera, refer to “Forward Collision-Avoidance Assist (FCA)” section in chapter 7.

Blind-Spot Collision-Avoidance Assist settings

Settings features



Blind-Spot Safety

With the engine on, select or deselect ‘Driver Assistance → Blind-Spot Safety’ from the Settings menu to set whether or not to use each function.

- If ‘Active Assist’ 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 Blind-Spot Collision-Avoidance Assist off, the 'Blind-Spot Safety System is Off' message will appear on the cluster.

If you change the setting from 'Off' to 'Active Assist' or 'Warning Only', the warning light on the outside rearview mirror will blink for three seconds.

In addition, if the engine is turned on, when the function 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

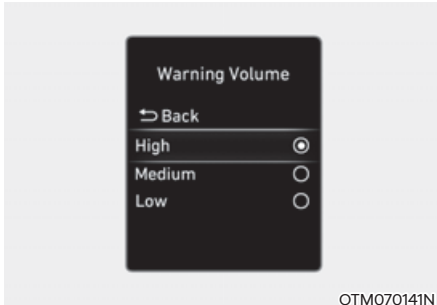
If the engine is restarted, Blind-Spot Collision-Avoidance Assist will maintain the last setting.



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-Avoidance Assist.

When the vehicle is first delivered, Warning Timing is set to 'Normal'. If you change the Warning Timing, the warning time of other Driver Assistance systems may change.



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.

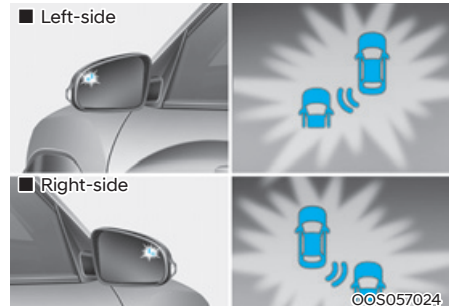


CAUTION

- **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 the vehicles approaches at high speed, the initial warning activation time may seem late.**
- **Select 'Late' for Warning Timing when traffic is light and when driving speed is slow.**

Blind-Spot Safety system operation

Warning and control



Vehicle detection

- To warn the driver a vehicle is detected, the warning light on the outside rearview mirror and head-up display (if equipped) will illuminate.
- Blind-Spot Collision-Avoidance Assist will operate when your vehicle speed is above 20 km/h (12 mph) and the speed of the vehicle in the blind spot area is above 10 km/h (7 mph).

Collision Warning

- Collision warning will operate when the turn signal is turned on in the direction of the detected vehicle.
- If 'Warning Only' is selected from the Settings menu, the collision warning will operate when your vehicle approaches the lane the blind spot vehicle is detected.
- To warn the driver of a collision, the warning light on the outside rearview mirror and head-up display (if equipped) will blink. At the same time, an audible warning will sound.
- When the turn signal is turned off or you move away from the lane, the collision warning will be canceled and Blind-Spot Collision-Avoidance Assist will return to vehicle detection state.



WARNING

- **The detecting range of the rear corner radar is determined by a standard road width, therefore, on a narrow road, Blind-Spot Collision-Avoidance Assist may detect other vehicles in the next next lane and warn you. In contrast, on a wide road, Blind-Spot Collision-Avoidance Assist may not be able to detect a vehicle driving in the next lane and may not warn you.**
- **When the hazard warning flasher is on, the collision warning by the turn signal will not operate.**



Information

If the driver's seat is on the left side, the collision warning may occur when you turn left. Maintain a proper distance with the vehicles in the left lane. If the driver's seat is on the right side, the collision warning may occur when you turn right. Maintain a proper distance with the vehicles in the right lane.



Collision-Avoidance Assist (while driving)

- To warn the driver of a collision, the warning light on the outside rearview mirror will blink and a warning message will appear on the cluster. At the same time, an audible warning will sound and warning light on the head-up display (if equipped) will blink.
- The system will operate when your vehicle speed is between 60~200 km/h (40~120 mph) and both lane markings of the driving lane are detected.
- Emergency braking will be assisted to help prevent collision with the vehicle in the blind spot area.

WARNING

- **Collision-Avoidance Assist will be canceled under the following circumstances:**
 - Your vehicle enters the next lane by a certain distance
 - Your vehicle is away from the collision risk
 - The steering wheel is sharply steered
 - The brake pedal is depressed
 - Forward Collision-Avoidance Assist is operating
- **After Blind-Spot Collision-Avoidance Assist operation or lane change, you must drive to the center of the lane. Blind-Spot Collision-Avoidance Assist will not operate if the vehicle is not driven in the center of the lane.**



Collision-Avoidance Assist (while departing)

- To warn the driver of a collision, the warning light on the outside rearview mirror will blink and a warning message will appear on the cluster. At the same time, an audible warning will sound and warning light on the head-up display (if equipped) will blink.
- Blind-Spot Collision-Avoidance Assist will operate when your vehicle speed is below 3 km/h (2 mph) and the speed of the vehicle in the blind spot area is above 5 km/h (3 mph).
- Emergency braking will be assisted to help prevent collision with the vehicle in the blind spot area.



Stopping vehicle and ending brake control

- When the vehicle is stopped due to emergency braking, the 'Drive carefully' warning message will appear on the cluster.

For your safety, the driver should depress the brake pedal immediately and check the surroundings.

- Brake control will end after the vehicle is stopped by emergency braking for approximately 2 seconds.

**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 function warning message is displayed or audible warning is generated, Blind-Spot Collision-Avoidance Assist's warning message may not be displayed and audible warning may not be generated.
- You may not hear the warning sound of Blind-Spot Collision-Avoidance Assist if the surrounding is noisy.
- Blind-Spot Safety system may not operate if the driver applies the brake pedal to avoid collision.
- When Blind-Spot Collision-Avoidance Assist is operating, braking control by the system will automatically cancel when the driver excessively depresses the accelerator pedal or sharply steers the vehicle.
- During Blind-Spot Collision-Avoidance Assist operation, the vehicle may stop suddenly injuring passengers and shifting loose objects. Always have the seat belt on and keep loose objects secured.
- Even if there is a problem with Blind-Spot Collision-Avoidance Assist, the vehicle's basic braking performance will operate normally.
- Blind-Spot Collision-Avoidance Assist does not operate in all situations or cannot avoid all collisions.

- Blind-Spot Collision-Avoidance Assist may warn the driver late or may not warn the driver depending on the road and driving conditions.
- Driver should maintain control of the vehicle at all times. Do not depend on Blind-Spot Collision-Avoidance Assist. Maintain a safe braking distance, and if necessary, depress the brake pedal to reduce driving speed or to stop the vehicle.
- Never operate Blind-Spot Collision-Avoidance Assist on people, animal, objects, etc. It may cause serious injury or death.

**WARNING**

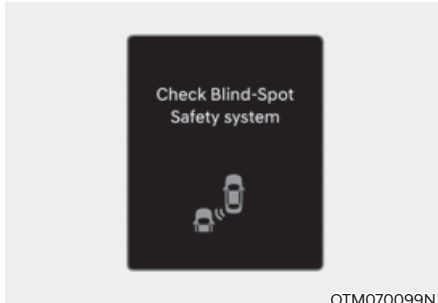
The brake control may not operate properly depending on the status of ESC (Electronic Stability Control).

There will only be a warning when:

- The ESC (Electronic Stability Control) warning light is on
- ESC (Electronic Stability Control) is engaged in a different function

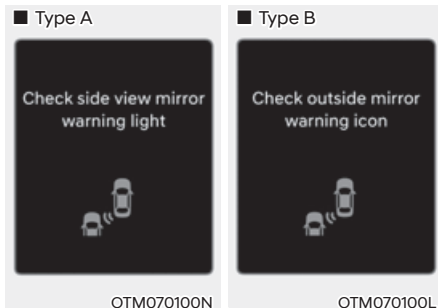
Blind-Spot Collision-Avoidance Assist malfunction and limitation

Blind-Spot Collision-Avoidance Assist malfunction



OTM070099N

When Blind-Spot Collision-Avoidance Assist is not working properly, the 'Check Blind-Spot Safety system(s)' warning message will appear on the cluster, and the function will turn off automatically or the function will be limited. We recommend that the function be inspected by an authorized HYUNDAI dealer.

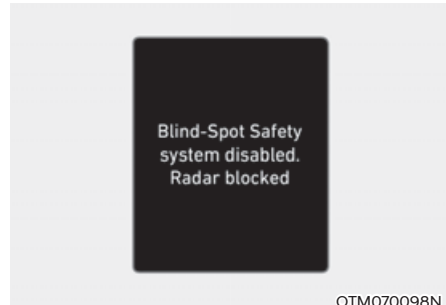


OTM070100N

OTM070100L

When the outside rearview mirror warning light is not working properly, the 'Check side view mirror warning light' (or 'Check outside mirror warning icon') warning message will appear on the cluster. We recommend that the system be inspected by an authorized HYUNDAI dealer.

Blind-Spot Collision-Avoidance Assist disabled



OTM070098N

When the rear bumper around the rear corner radar or sensor is covered with foreign material, such as snow or rain, or installing a trailer or carrier, it can reduce the detecting performance and temporarily limit or disable Blind-Spot Collision-Avoidance Assist.

If this occurs, the 'Blind-Spot Safety system(s) disabled. Radar blocked' warning message will appear on the cluster.

Blind-Spot Collision-Avoidance Assist will operate normally when such foreign material or trailer, etc. is removed, and then the engine is restarted.

If Blind-Spot Collision-Avoidance Assist does not operate normally after it is removed, we recommend that the system be inspected by an authorized HYUNDAI dealer.

WARNING

- Even though the warning message does not appear on the cluster, Blind-Spot Collision-Avoidance Assist may not properly operate.
- Blind-Spot Collision-Avoidance Assist may not properly operate in an area (e.g. open terrain) where any substance are not detected right after the 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-Avoidance Assist to install a trailer, carrier, etc., or remove the trailer, carrier, etc. to use Blind-Spot Collision-Avoidance Assist.

Limitations of Blind- Spot Collision-Avoidance Assist

Blind-Spot Collision-Avoidance Assist may not operate normally, or 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 (i.e. possibly due to subway construction)
- There is a fixed object near the vehicle, such as sound barriers, guardrails, central dividers, entry barriers, street lamps, signs, tunnels, walls, etc. (including double structures)
- Driving in large areas where there are few vehicles or structures (i.e. desert, meadow, suburb, etc.)
- Driving through a narrow road where trees or grass are overgrown
- Driving on a wet road surface, such as a puddle on the road
- The other vehicle drives very close behind your vehicle, or the other vehicle passes by your vehicle in close proximity

- The speed of the other vehicle is very fast that it passes by your vehicle in a short time
- Your vehicle passes by the other vehicle
- Your vehicle changes lane
- Your vehicle has started at the same time as the vehicle next to you and has accelerated
- The vehicle in the next lane moves two lanes away from you, or when the vehicle two lanes away moves to the next lane from you
- A trailer or carrier is installed around the rear corner radar
- The bumper around the rear corner radar is covered with objects, such as a bumper sticker, bumper guard, bike rack, etc.
- The bumper around the rear corner radar is impacted, damaged or the radar is out of position
- Your vehicle height is low or high due to heavy loads, abnormal tire pressure, etc.

Blind-Spot Collision-Avoidance Assist may not operate normally, or it may operate unexpectedly when the following objects are detected:

- A motorcycle or bicycle is detected
- A vehicle such as a flat trailer is detected
- A big vehicle such as a bus or truck is detected
- A moving obstacle such as a pedestrian, animal, shopping cart or a baby stroller is detected
- A vehicle with low height such as a sports car is detected

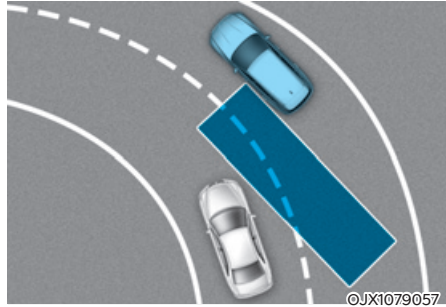
Braking control may not work, driver's attention is required in the following circumstances:

- The vehicle severely vibrates while driving over a bumpy road, uneven road or concrete patch
- Driving on a slippery surface due to snow, water puddle, ice, etc.
- The tire pressure is low or a tire is damaged
- The brake is reworked
- The vehicle makes abrupt lane changes

For more details on the limitations of the front view camera, refer to "Forward Collision-Avoidance Assist (FCA)" and "Lane Keeping Assist (LKA)" section in chapter 7.

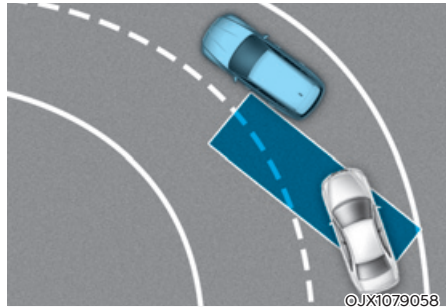
WARNING

- **Driving on a curve**



Blind-Spot Collision-Avoidance Assist may not operate properly when driving on a curved road. The function may not detect the vehicle in the next lane.

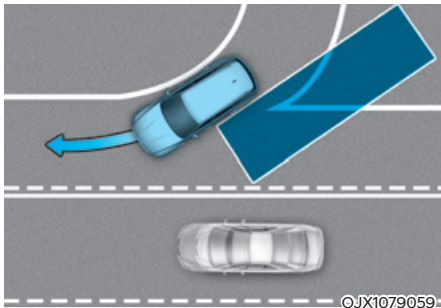
Always pay attention to road and driving conditions while driving.



Blind-Spot Collision-Avoidance Assist may not operate properly when driving on a curved road. The function may recognize a vehicle in the same lane.

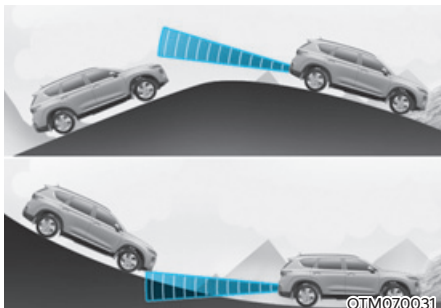
Always pay attention to road and driving conditions while driving.

- Driving where the road is merging/dividing



Blind-Spot Collision-Avoidance Assist may not operate properly when driving where the road merges or divides. The system may not detect the vehicle in the next lane. Always pay attention to road and driving conditions while driving.

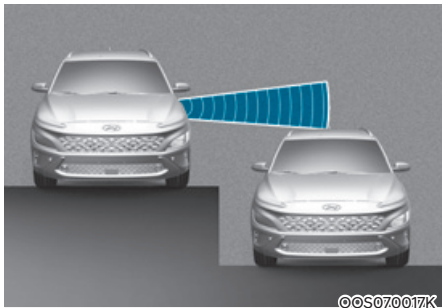
- Driving on a slope



Blind-Spot Collision-Avoidance Assist may not operate properly when driving on a slope. The function may not detect the vehicle in the next lane or may incorrectly detect the ground or structure.

Always pay attention to road and driving conditions while driving.

- Driving where the heights of the lanes are different



Blind-Spot Collision-Avoidance Assist may not operate properly when driving where the heights of the lanes are different. The system may not detect the vehicle on a road with different lane heights (underpass joining section, grade separated intersections, etc.).

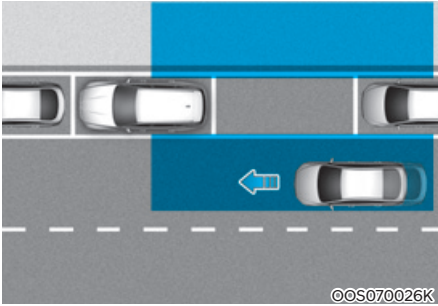
Always pay attention to road and driving conditions while driving.



WARNING

- When you are towing a trailer or another vehicle, make sure that you turn off Blind-Spot Collision-Avoidance Assist.
- Blind-Spot Collision-Avoidance Assist may not operate normally if interfered by strong electromagnetic waves.
- Blind-Spot Collision-Avoidance Assist may not operate for 15 seconds after the vehicle is started, or the front view camera or rear corner radars are initialized.

SAFE EXIT WARNING (SEW) (IF EQUIPPED)



©OS070026K

After the vehicle stops, when an approaching vehicle from the rear area is detected as soon as a passenger opens a door, Safe Exit Warning will warn the driver with a warning message and an audible warning to help prevent a collision.



CAUTION

Warning timing may vary depending on the speed of the approaching vehicle.

Detecting sensor (Rear corner radar)



©OS070004K

[1] : Rear corner radar

The rear corner radars are sensors located inside the rear bumper to detect the side and rear areas. Always keep the rear bumper clean for proper operation of Safe Exit Warning

NOTICE

For more details on the precautions of the rear corner radars, refer to “Blind- Spot Collision Warning (BCW)” or “Blind-Spot Collision Assist (BCA)” section in chapter 7.

Safe Exit Warning settings

Setting features



Safe Exit Warning

With the engine on, select 'Driver Assistance → Blind-Spot Safety → Safe Exit Warning (SEW) (or SEW (Safe Exit Warning))' from the Settings menu to turn on Safe Exit Assist and deselect to turn off the system.



WARNING

The driver should always be aware of unexpected and sudden situations from occurring. If 'Safe Exit Warning' is deselected, the system cannot assist you.



Information

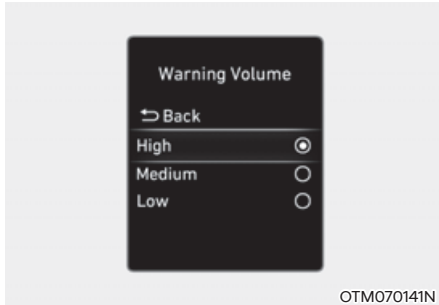
If the engine is restarted, Safe Exit Warning will maintain the last setting.



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 Safety system.

When the vehicle is first delivered, Warning Timing is set to 'Normal'. If you change the Warning Timing, the warning time of other Driver Assistance systems may change.



Warning Volume

With the engine on, select 'Driver Assistance → Warning Volume' from the Settings menu to change the Warning Volume 'High', 'Medium' and 'Low' for Blind-Spot Safety system.

If you change the Warning Volume, the Warning Volume of other Driver Assistance systems may change.

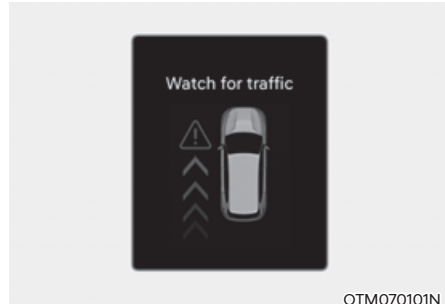


CAUTION

- **The setting of the Warning Timing and Warning Volume applies to all functions of the Safe Exit Warning.**
- **Even though 'Normal' is selected for Warning Timing, if the vehicles approaches at high speed from the rear, the initial warning activation time may seem late.**
- **Select 'Late' for Warning Timing when traffic is light.**

Safe Exit Warning operation

Warning and control



Collision warning when exiting vehicle

- When an approaching vehicle from the rear is detected, the 'Watch (out) for traffic' warning message will appear on the cluster, and an audible warning will sound.
- Safe Exit Warning will warn the driver when your vehicle speed is below 3 km/h (2 mph), and the speed of the approaching vehicle from the rear is above 5 km/h (3 mph).



WARNING

Take the following precautions when using Safe Exit Warning

- **For your safety, change the Settings after parking the vehicle at a safe location.**
- **If any other system's warning message is displayed or audible warning is generated, Safe Exit Warning warning message may not be displayed and audible warning may not be generated.**
- **You may not hear the warning sound of Safe Exit Warning if the surrounding is noisy.**
- **Safe Exit Warning does not operate in all situations or cannot prevent all collisions.**

- **Safe Exit Warning** may warn the driver late or may not warn the driver depending on the road and driving conditions. Always check vehicle surroundings.
- The driver and passengers are responsible for accidents that occurs while exiting the vehicle. Always check the surroundings before you exit the vehicle.
- Never deliberately operate **Safe Exit Warning**. Doing so may lead to serious injury or death.
- **Safe Exit Warning** does not operate if there is a problem with **Blind-Spot Safety system**. There may be a problem with **Blind Spot Safety system** when:
 - **Blind Spot Safety system warning light appears**
 - **Blind-Spot Safety system sensor or the sensor surrounding is polluted or covered**
 - **Blind-Spot Safety system 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 Warning malfunction and limitations

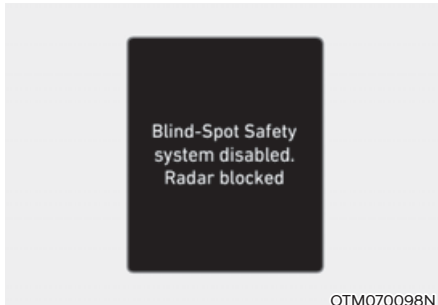
Safe Exit Warning malfunction



OTM070099N

When **Safe Exit Warning** is not working properly, the 'Check Blind-Spot Safety system(s)' warning message will appear on the cluster, and the warning will turn off automatically or the warning will be limited. We recommend that the warning be inspected by an authorized HYUNDAI dealer.

Safe Exit Warning disabled



When the rear bumper around the rear corner radar or sensor is covered with foreign material, such as snow or rain, or installing a trailer or carrier, it can reduce the detecting performance and temporarily limit or disable Safe Exit Warning.

If this occurs, the 'Blind-Spot Safety system(s) disabled. Radar blocked' warning message will appear on the cluster.

The function will operate normally when such foreign material or trailer, etc. is removed, and then the engine is restarted.

If the system does not operate normally after it is removed, we recommend that the system be inspected by an authorized HYUNDAI dealer.

WARNING

- Even though the warning message does not appear on the cluster, Safe Exit Warning may not properly operate.
- Safe Exit Warning may not properly operate in an area (e.g. open terrain) where any substance 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 Safe Exit Warning to install a trailer, carrier, etc., or remove the trailer, carrier, etc. to use Safe Exit Warning.

Limitations of Safe Exit Warning

Safe Exit Warning may not operate normally, or the system may operate unexpectedly under the following circumstances:

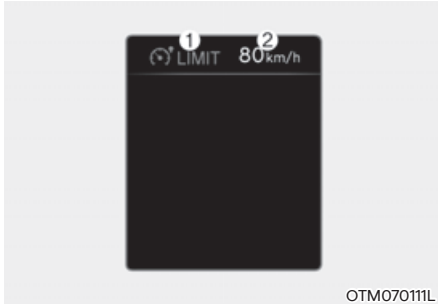
- Getting out of the vehicle where trees or grass are overgrown
- Getting out of the vehicle where the road is wet
- The approaching vehicle is very fast or very slow

For more details on the limitations of the rear corner radar, refer to "Blind-Spot Collision-Avoidance Assist (BCA)" section in chapter 7.

WARNING

- Safe Exit Warning may not operate normally if interfered by strong electromagnetic waves.
- Safe Exit Warning may not operate for 3 seconds after the vehicle is started, or the rear corner radars are initialized.

MANUAL SPEED LIMIT ASSIST (MSLA) (FOR EUROPE)



(1) Manual Speed Limit Assist enabled indicator

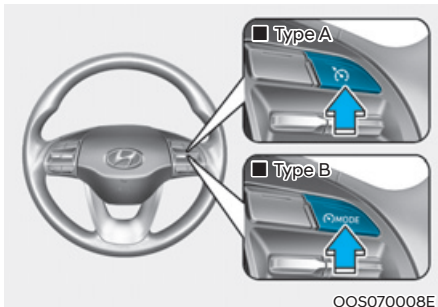
(2) Set speed

You can set the speed limit when you do not want to drive over a specific speed.

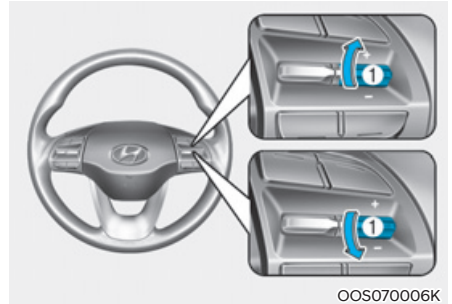
If you drive over the preset speed limit, Manual Speed Limit Assist will operate (set speed limit will blink and chime will sound) until the vehicle speed returns within the speed limit.

Manual Speed Limit Assist operation

To set speed limit



1. Press and hold Driving Assist (MODE) button at the desired speed. The Manual Speed Limit Assist enabled (LIMIT) indicator will illuminate on the cluster.



2. Push the + switch up or - switch down, and release it at the desired speed.

Push the + switch up or - switch down and hold it. The speed will increase or decrease to the nearest multiple of ten (multiple of five in mph) at first, and then increase or decrease by 10 km/h (5 mph).



3. The set speed limit will be displayed on the cluster.

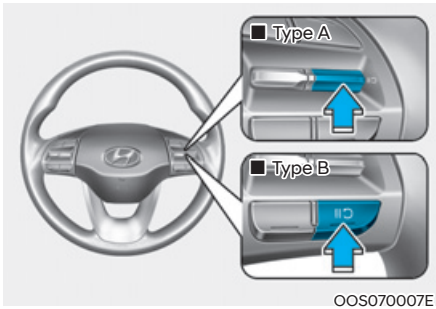
If you would like to drive over the preset speed limit, depress the accelerator pedal beyond the pressure point to activate the kickdown mechanism.



The set speed limit will blink and chime will sound until you return the vehicle speed within the speed limit.

i Information

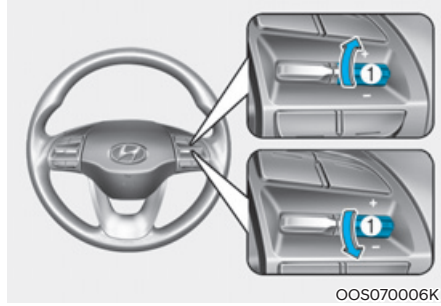
- When the accelerator pedal is not depressed beyond the pressure point, vehicle speed will maintain within the speed limit.
- A clicking sound may be heard from the kickdown mechanism when the accelerator pedal is depressed beyond the pressure point.


To temporarily pause Manual Speed Limit Assist




Push the  switch to temporarily pause the set speed limit. The set speed limit will turn off but the Manual Speed Limit Assist enabled () indicator will stay on.

To resume Manual Speed Limit Assist

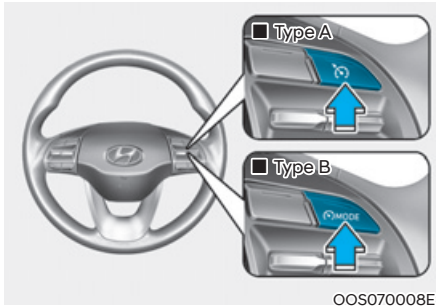


To resume Manual Speed Limit Assist after the system was paused, push the +, -,  switch.

If you push the + switch up or - switch down, vehicle speed will be set to the current speed on the cluster.

If you push the  switch, vehicle speed will resume to the preset speed.

To turn off Manual Speed Limit Assist



Press the Driving Assist (MODE) button to turn Manual Speed Limit Assist off. The Manual Speed Limit Assist enabled (LIMIT) indicator will go off.

Always press the Driving Assist (MODE) button to turn Manual Speed Limit Assist off when not in use.

WARNING

Take the following precautions when using Manual Speed Limit Assist:

- Always set the vehicle speed to the speed limit in your country.
- Keep Manual Speed Limit Assist off when the system is not in use, to avoid inadvertently setting a speed. Check that the Manual Speed Limit Assist enabled (LIMIT) indicator is off.
- Manual Speed Limit Assist does not substitute for proper and safe driving. It is the responsibility of the driver to always drive safely and should always be aware of unexpected and sudden situations from occurring. Pay attention to the road conditions at all times.

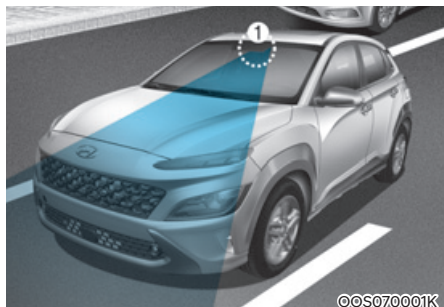
INTELLIGENT SPEED LIMIT WARNING (ISLW) (IF EQUIPPED)

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 function is used in other countries.

Detecting sensor (Front view camera)



[1] : Front view camera

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

CAUTION

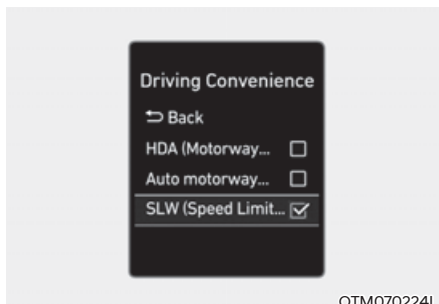
For more details on the precautions of the front view camera, refer to “Forward Collision-Avoidance Assist (FCA)” section in chapter 7.

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 features



Speed Limit Warning

With the engine on, select or deselect ‘Driver Assistance → Driving Convenience → SLW (Speed Limit Warning)’ from the Settings menu to set whether or not to use the function.

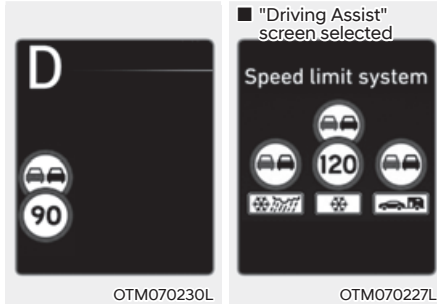
- If ‘SLW (Speed Limit Warning)’ is selected, the system will inform the driver of speed limit and additional road signs.

Information

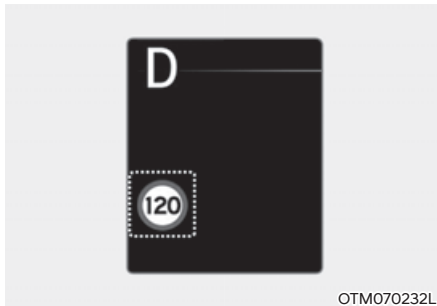
Intelligent Speed Limit Warning is turned on automatically whenever the engine is turned on.

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.

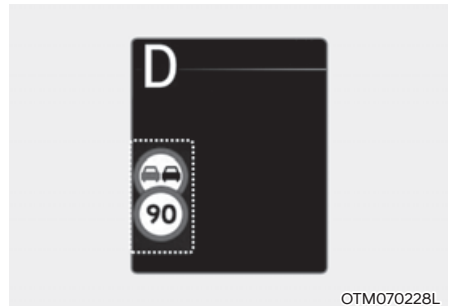


Displaying speed limit

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 recognized, it will be 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 100 km/h (60 mph), however, the speed limit is 60 km/h (45 mph) 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

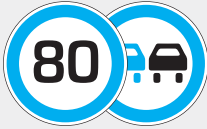
■ No reliable speed limit information



WTL-220

- The symbol is displayed when Intelligent Speed Limit Warning does not have any reliable speed limit information.

■ No passing information



WTL-222



WTL-221

- The symbol is displayed when Intelligent Speed Limit Warning detects a no overtaking sign.

■ End of a speed limit



WUM-207



WUM-208

- 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)



WUM-205

- 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.

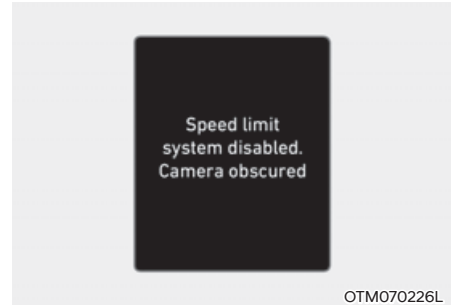
Intelligent Speed Limit Warning malfunction and limitations

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. If this occurs, we recommend that the function be inspected by an authorized HYUNDAI dealer.

Intelligent Speed Limit Warning disabled



When the front windshield where the front view camera is located is covered with foreign material, such as snow or rain, it can reduce the detecting performance and temporarily limit or disable Intelligent Speed Limit Warning. If this occurs, the 'Speed limit system disabled. Camera obscured' warning message will appear on the cluster.

The function will operate normally when snow, rain or foreign material is removed.

If the function does not operate normally after it is removed, we recommend that the function be inspected by an authorized 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, the system may not operate properly.

Limitations of Intelligent Speed Limit Warning

Intelligent Speed Limit Warning function 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
 - 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
 - An conditional road sign is not installed with a sign located on the road to enter or exit
 - 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 recognize 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
 - The front view camera may not detect correctly speed limit sign over 130 km/h

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

DRIVER ATTENTION WARNING (DAW) (IF EQUIPPED)

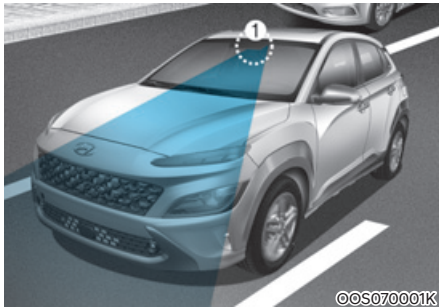
Basic function

Driver Attention Warning will help determine the driver's attention level by analyzing driving pattern and driving time, etc. while vehicle is being 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 (Front view camera)



[1] : Front view camera

The front view camera is used to detect driving patterns and front vehicle departure while vehicle is being driven. Refer to the picture above for the detailed location of the detecting sensor.



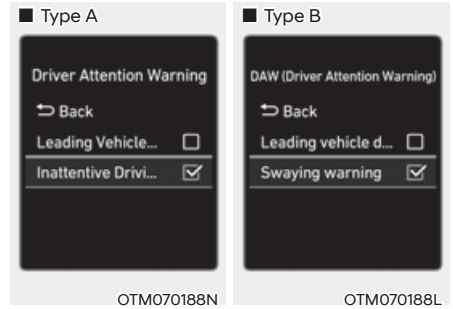
CAUTION

Always keep the front view camera in good condition to maintain optimal performance of Driver Attention Warning.

For more details on the precautions of the front view camera, refer to "Forward Collision-Avoidance Assist (FCA)" section in chapter 7.

Drive Attention Warning settings

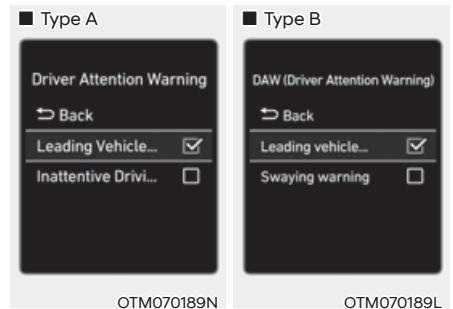
Setting features



Driver Attention Warning

With the engine on, select or deselect 'Driver Assistance → Driver Attention Warning (or DAW (Driver Attention Warning))' from the Settings menu to set whether or not to use each function.

- If 'Inattentive Driving Warning' (or 'Swaying warning') is selected, the system 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 system will inform the driver when the front vehicle 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 time of other Driver Assistance systems may change.

Information

If the engine is restarted, Driver Attention Warning will maintain the last setting.

Drive Attention Warning operation

Basic function

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'.

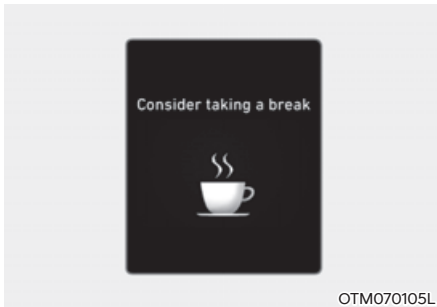
Attention level



- The driver can monitor his/her 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 0~210km/h (0~130 mph)
 - When vehicle speed is not within the operating speed, the message 'Standby' (or 'Disabled') will be displayed.

- The driver's attention level is displayed on the scale of 1 to 5. The lower the level is, the more inattentive the driver is.
- The level decreases when the driver does not take a break for a certain period of time.

Taking a break



- The 'Consider taking a break' message will appear on the cluster and an audible warning will sound to suggest that the driver take a break, when the driver's attention level is below 1.
- Driver Attention Warning will not suggest a break when the total driving time is shorter than 10 minutes or 10 minutes has not passed after the last break was suggested.



WARNING

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



CAUTION

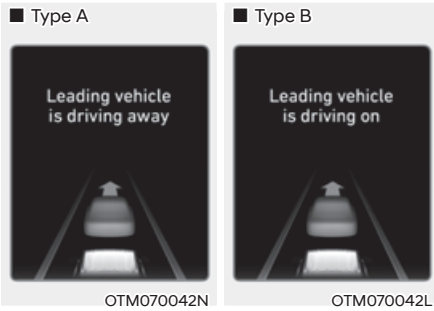
- Driver Attention Warning may suggest a break depending on the driver's driving pattern or habits, even if the driver doesn't feel fatigued.
- Driver Attention Warning is a supplemental system and may not be able to determine whether the driver is inattentive.
- The driver who feels fatigued should take a break at a safe location, even though there is no break suggestion by Driver Attention Warning.



Information

- 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 4, or "Vehicle Settings" section in 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 the front vehicle departs from a stop, Leading Vehicle Departure Alert will inform the driver by displaying the 'Leading vehicle is driving away' (or 'Leading vehicle is driving on') message on the cluster and an audible warning will sound.

WARNING

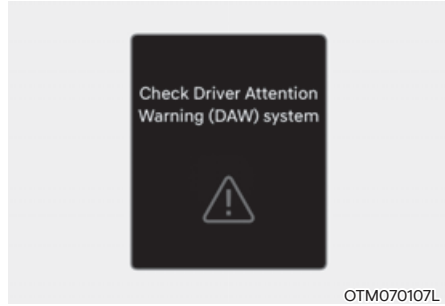
- If any other function's warning message is displayed or audible warning is generated, Leading Vehicle Departure Alert's warning message may not be displayed and audible warning may not be generated.
- The driver should hold the responsibility to safely drive and control the vehicle.

CAUTION

- Leading Vehicle Departure Alert is a supplemental function and may not alert the driver whenever the front vehicle departs from a stop.
- Always check the front of the vehicle and road conditions before departure.

Drive Attention Warning malfunction and limitations

Drive Attention Warning malfunction



When Driver Attention Warning is not working properly, the 'Check Driver Attention Warning (DAW) system' warning message will appear on the cluster for several seconds, and the master (WAE-211) warning light will illuminate on the cluster. If this occurs, we recommend that the function be inspected by an authorized HYUNDAI dealer.

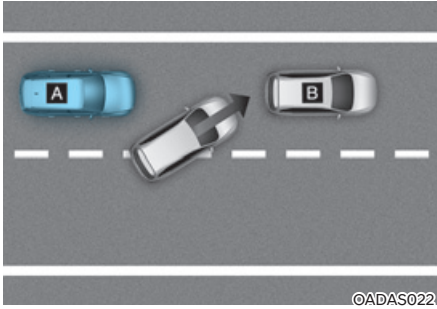
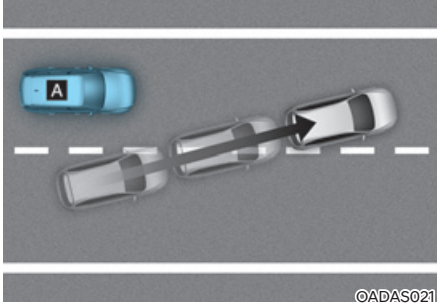
Limitations of Drive Attention Warning

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 feature

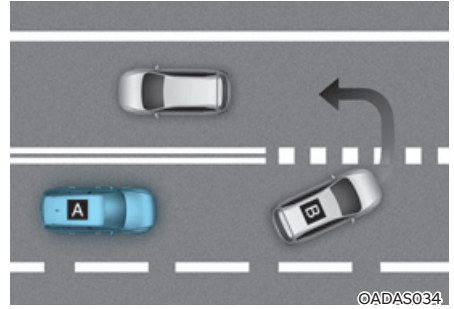
- When the vehicle cuts in



[A] : Your vehicle, [B] : Front vehicle

If a vehicle cuts in front of your vehicle, Leading Departure Alert may not operate properly.

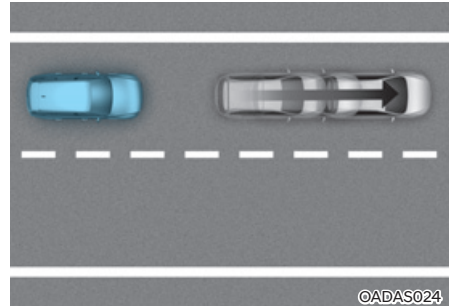
- When the vehicle ahead sharply steers



[A] : Your vehicle, [B] : Front vehicle

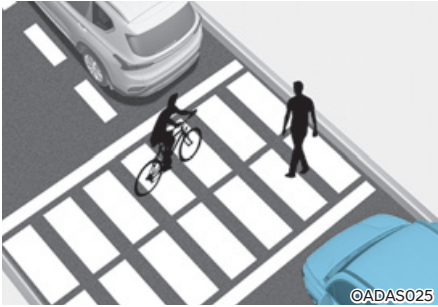
If the vehicle in front makes a sharp turn, such as to turn left or right or make a U-turn, etc., Leading Vehicle Departure Alert may not operate properly.

- When the vehicle ahead abruptly departs



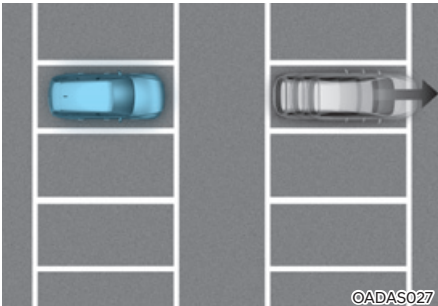
If the vehicle in front abruptly departs, Leading Vehicle Departure Alert may not operate properly.

- When a pedestrian or bicycle is between you and the vehicle ahead



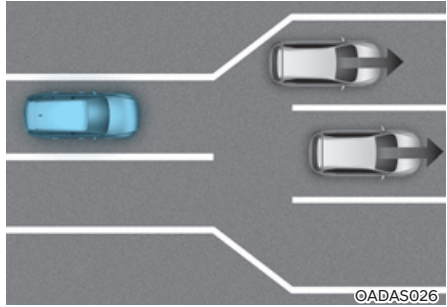
If there is a pedestrian(s) or bicycle(s) in between you and the vehicle in front, Leading Vehicle Departure Alert may not operate properly.

- 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.



CAUTION

For more details on the precautions of the front view camera, refer to “Forward Collision-Avoidance Assist (FCA)” section in chapter 7.

CRUISE CONTROL (CC) (IF EQUIPPED)



OTM070111

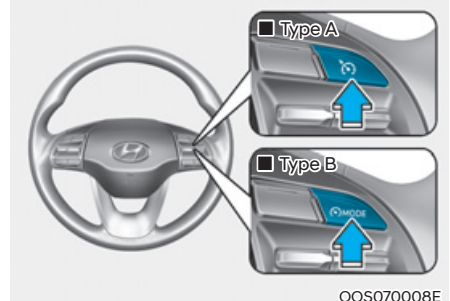
- (1) Cruise indicator
- (2) Set speed

Cruise Control will allow you to drive at speeds above 30 km/h (20 mph) without depressing the accelerator pedal.

Cruise Control operation

To set speed

1. Accelerate to the desired speed, which must be more than 30 km/h (20 mph).



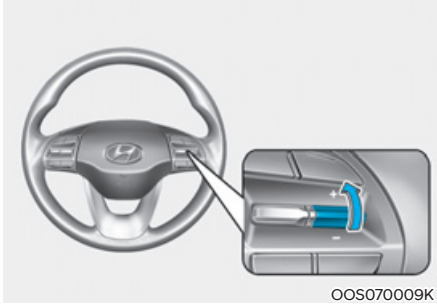
OOS07008E

2. Press the Driving Assist (MODE) button at the desired speed. The set speed and Cruise (CRUISE) indicator will illuminate on the cluster.
3. Release the accelerator pedal. Vehicle speed will maintain the set speed even when the accelerator pedal is not depressed.

i Information

On a steep slope, the vehicle may slightly slow down or speed up while driving uphill or downhill.

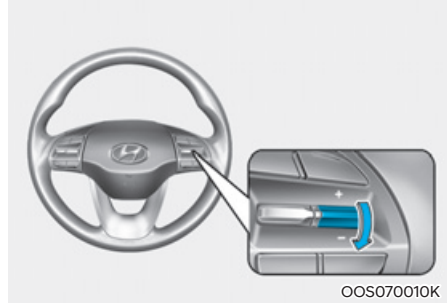
To increase speed



- Push the + switch up and release it immediately. The cruising speed will increase by 1 km/h (1 mph) each time the switch is operated in this manner.
- Push the + switch up and hold it while monitoring the set speed on the cluster. The cruising speed will increase to the nearest multiple of ten (multiple of five in mph) at first, and then increase by 10 km/h (5 mph) each time the switch is operated in this manner.

Release the switch when the desired speed is shown and the vehicle will accelerate to that speed.

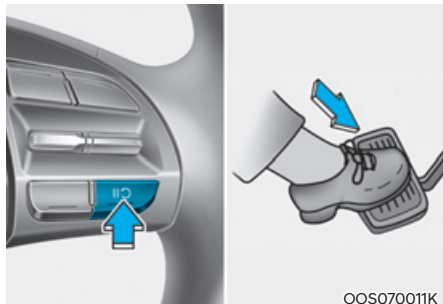
To decrease speed



- Push the - switch down and release it immediately. The cruising speed will decrease by 1 km/h (1 mph) each time the switch is operated in this manner.
- Push the - switch down and hold it while monitoring the set speed on the cluster. The cruising speed will decrease to the nearest multiple of ten (multiple of five in mph) at first, and then decrease by 10 km/h (5 mph) each time the switch is operated in this manner.

Release the switch at the speed you want to maintain.

To temporarily pause Cruise Control

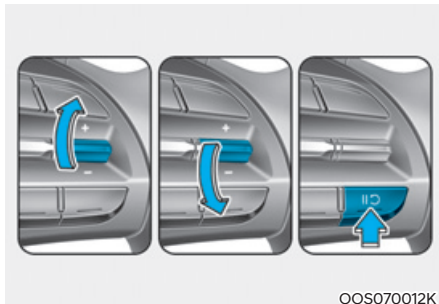


Cruise Control will be paused when:

- Depressing the brake pedal.
- Pushing the **||** button.
- Shifting the gear to N (Neutral).
- Decreasing vehicle speed to less than approximately 30 km/h (20 mph).
- 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.

To resume Cruise Control

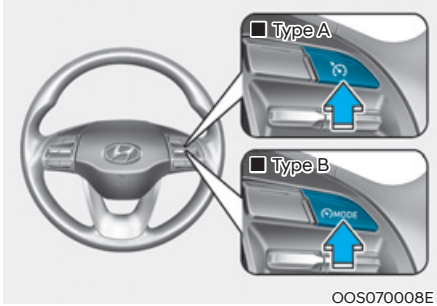


Push the +, - switch or **||** button.

If you push the + switch up or - switch down, vehicle speed will be set to the current speed on the cluster.

If you push the **||** button, vehicle speed will resume to the preset speed. Vehicle speed must be above 30 km/h (20 mph) for the function to resume.

To turn off Cruise Control



Press the Driving Assist button to turn Cruise Control off. The Cruise (CRUISE) indicator will go off.

Always press the Driving Assist button to turn Cruise Control off when not in use.

i Information

If your vehicle is equipped with Manual Speed Limit Assist, press and hold the Driving Assist button to turn off Cruise Control. However, Manual Speed Limit Assist will turn on.

! WARNING

Take the following precautions when using Cruise Control:

- Always set the vehicle speed to the speed limit in your country.
- Keep Cruise Control off when the 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.
- Do not use Cruise Control when it may be unsafe to keep the vehicle at a constant speed:
 - When driving in heavy traffic, or when traffic conditions make it difficult to drive at a constant speed
 - When driving on rainy, icy, or snow-covered roads
 - When driving on hilly or windy roads
 - When driving in windy areas
 - When driving with limited view (possibly due to bad weather, such as fog, snow, rain and sandstorm)
- Do not use Cruise Control when towing a trailer.

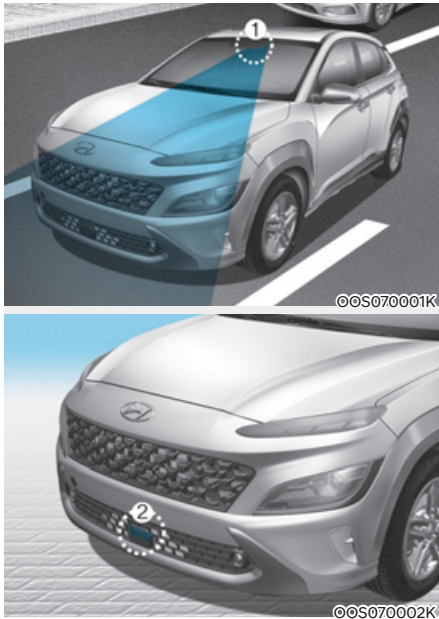
SMART CRUISE CONTROL (SCC) (IF EQUIPPED)

Smart Cruise Control is designed to detect the vehicle ahead and help maintain the desired speed and minimum distance between the vehicle ahead.

Overtaking Acceleration Assist

While Smart Cruise Control is operating, if the system judges that the driver is determined to overtake the vehicle in front, acceleration will be assisted.

Detecting sensor (Front view camera, Front radar)



[1] : Front view camera,

[2] : Front radar

The front view camera and front radar are used as a detecting sensor to help detect the vehicles in front.

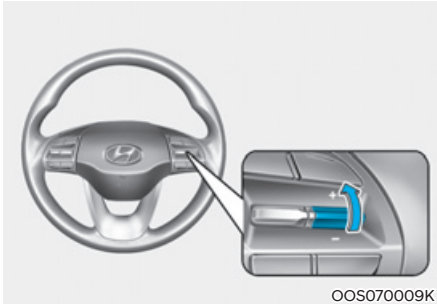
Refer to the picture above for the detailed location of the detecting sensor.



CAUTION

Always keep the front view camera and front radar in good condition to maintain optimal performance of Smart Cruise Control.

For more details on the precautions of the front view camera and front radar, refer to “Forward Collision-Avoidance Assist (FCA)” section in chapter 7.



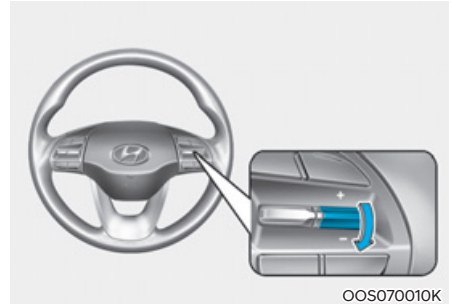
To increase speed

- Push the + switch up and release it immediately. The cruising speed will increase by 1 km/h (1 mph) each time the switch is operated in this manner.
- Push the + switch up and hold it while monitoring the set speed on the cluster. The cruising speed will increase by 10 km/h or 5 mph each time the switch is operated in this manner. Release the switch when the desired speed is shown, and the vehicle will accelerate to that speed. You can set the speed to 180 km/h (110 mph).



WARNING

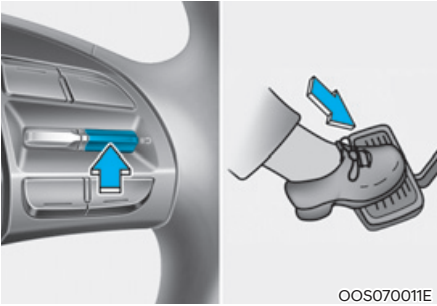
Check the driving condition before using the + switch. Driving speed may sharply increase when you push up and hold the + switch.



To decrease speed

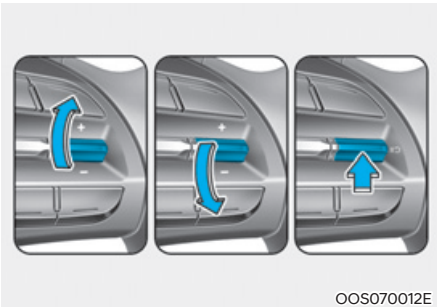
- Push the - switch down and release it immediately. The cruising speed will decrease by 1 km/h (1 mph) each time the switch is operated in this manner.
- Push the - switch down and hold it while monitoring the set speed on the cluster. The cruising speed will decrease by 10 km/h or 5 mph each time the switch is operated in this manner.

Release the switch at the speed you want to maintain. You can set the speed to 30 km/h (20 mph).



To temporarily cancel the function

Press the switch or depress the brake pedal to temporarily cancel Smart Cruise Control.



To resume the function

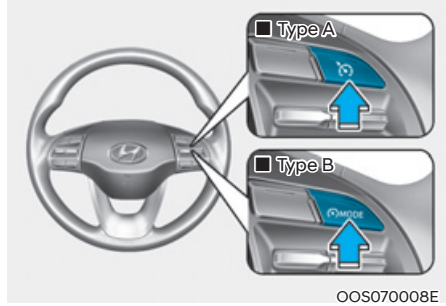
To resume Smart Cruise Control after the system was canceled, push the +, - or switch.

If you push the + switch up or - switch down, vehicle speed will be set to the current speed on the cluster.

If you push the switch, vehicle speed will resume to the preset speed.

WARNING

Check the driving condition before using the switch. Driving speed may sharply increase or decrease when you press the switch.

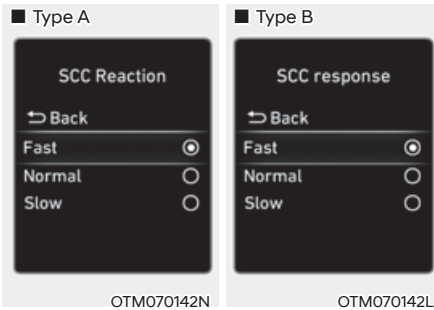


To turn off the function

Press the Driving Assist button to turn Smart Cruise Control system off.

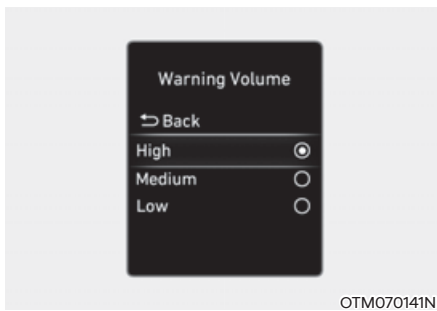
Information

If your vehicle is equipped with Manual Speed Limit Assist, press and hold the Driving Assist button to turn off Smart Cruise Control. However, Manual Speed Limit Assist will turn on.



Smart Cruise Reaction

With the engine on, select 'Driver Assistance → Smart Cruise Reaction (or Smart Cruise response)' from the settings menu to select the sensitivity of vehicle speed when following the front vehicle to maintain the set distance.



Warning Volume

With the engine on, select 'Driver Assistance → Warning Volume' from the Settings menu to change the Warning Volume 'High', 'Medium' or 'Low' for Smart Cruise Control.

If you change the Warning Volume, the Warning Volume of other Driver Assistance systems may change.

i Information

If the engine is restarted, Warning Volume will maintain the last setting.

Smart Cruise Control operation

Operating conditions

Smart Cruise Control will operate when the following conditions are satisfied.

Basic function

- The gear is in D (Drive)
- The driver's door is closed
- EPB (Electronic Parking Brake) is not applied
- Your vehicle speed is within the operating speed range
 - 10~180 km/h (5~110 mph): when there is no vehicle in front
 - 0~180 km/h (0~110 mph): when there is a vehicle in front
- ESC (Electronic Stability Control), TCS (Traction Control System) or ABS is on
- ESC (Electronic Stability Control), TCS (Traction Control System) or ABS is not controlling the vehicle
- Engine RPM is not in the red zone
- Forward Collision-Avoidance Assist brake control is not operating
- Remote Smart Parking Assist brake control is not operating

i Information

At a stop, if there is no vehicle in front of your vehicle, the function will turn on when the brake pedal is depressed.

Overtaking Acceleration Assist

Overtaking Acceleration Assist will operate when the turn signal indicator is turned on to the left (left-hand drive) or turned on to the right (right-hand drive) while Smart Cruise Control is operating, and the following conditions are satisfied:

- Your vehicle speed is above 60 km/h (40 mph)
- The hazard warning flasher is off
- A vehicle is detected in front of your vehicle
- Deceleration is not needed to maintain distance with the vehicle in front

WARNING

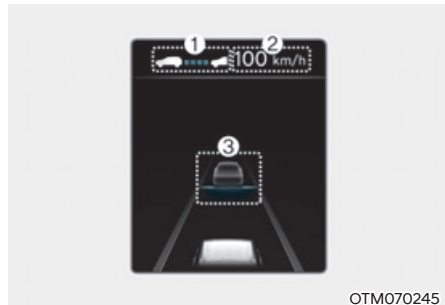
- **When the turn signal indicator is turned on to the left (left-hand drive) or turned on to the right (right-hand drive) while there is a vehicle ahead, the vehicle may accelerate temporarily. Pay attention to the road conditions at all times.**
- **Regardless of your country's driving direction, Overtaking Acceleration Assist will operate when the conditions are satisfied. When using the function in countries with different driving direction, always check the road conditions at all times.**

Smart Cruise Control display and control

Basic function

You can see the status of the Smart Cruise Control operation in the Driving Assist mode on the cluster. Refer to “LCD Display Modes” section in chapter 4.

Smart Cruise Control will be displayed as below depending on the status of the system.




OTM070245

- When operating
 - (1) Whether there is a vehicle ahead and the selected distance level are displayed.
 - (2) Set speed is displayed.
 - (3) Whether there is a vehicle ahead and the target vehicle distance are displayed.



OTM070155

- When temporarily canceled
- (1)  CRUISE indicator is displayed.
 - (2) The previous set speed is shaded.

Information

- The distance of the front vehicle on the cluster is displayed according to the actual distance between your vehicle and the vehicle ahead.
- The target distance may vary according to the vehicle speed and the set distance level. If vehicle speed is low, even though the vehicle distance have changed, the change of the target vehicle distance may be small.

To temporarily accelerate



OTM070246

If you want to speed up temporarily when Smart Cruise Control is on, depress the accelerator pedal. While the speed is increasing, the set speed, distance level and target distance will blink on the cluster.

WARNING

Be careful when accelerating temporarily, because the speed and distance is not controlled automatically even if there is a vehicle in front of you.

Smart Cruise Control temporarily canceled



Smart Cruise Control will be temporarily canceled automatically when:

- The vehicle speed is above 190 km/h (120 mph)
- The vehicle is stopped for a certain period of time
- The accelerator pedal is continuously depressed for a certain period of time
- The conditions for the Smart Cruise Control to operate is not satisfied

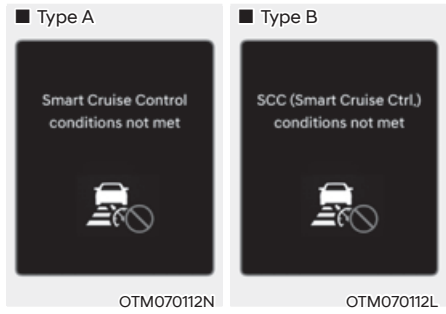
If the function is temporarily canceled automatically, the 'Smart Cruise Control canceled' (or 'SCC (Smart Cruise Control) cancelled') warning message will appear on the cluster, and an audible warning will sound to warn the driver.


If the Smart Cruise Control is temporarily canceled while the vehicle is at a standstill with the system operating, EPB (Electronic Parking Brake) maybe applied.

WARNING

When the function is temporarily canceled, distance with the front vehicle will not be maintained. Always have your eyes on the road while driving, and if necessary, depress the brake pedal to reduce your driving speed in order to maintain a safe distance.


Smart Cruise Control conditions not satisfied



If the Driving Assist button, + switch, - switch or  switch is pushed when the system's operating conditions are not satisfied, the 'Smart Cruise Control conditions not met' (or SCC (Smart Cruise Ctrl. conditions not met') will appear on the cluster, and an audible warning will sound.

In traffic situation



In traffic, your vehicle will stop if the vehicle ahead of you stops. Also, if the vehicle ahead of you starts moving, your vehicle will start as well. In addition, after the vehicle has stopped and a certain time have passed, the 'Use switch or pedal to accelerate' message will appear on the cluster. Depress the accelerator pedal or push the + switch, - switch or  switch to start driving.

Warning road conditions ahead



In the following situation, the 'Watch for surrounding vehicles' warning message will appear on the cluster, and an audible warning will sound to warn the driver of road conditions ahead.

- The vehicle in front disappears when Smart Cruise Control is maintaining the distance with the vehicle ahead while driving below a certain speed



WARNING

Always pay attention to vehicles or objects that may suddenly appear in front of you, and if necessary, depress the brake pedal to reduce your driving speed in order to maintain a safe distance.

Collision Warning



While Smart Cruise Control is operating, when the collision risk with the vehicle ahead is high, the 'Collision Warning' warning message will appear on the cluster, and an audible warning will sound to warn the driver. Always have your eyes on the road while driving, and if necessary, depress the brake pedal to reduce your driving speed in order to maintain a safe distance.

WARNING

In the following situations, Smart Cruise Control may not warn the driver of a collision.

- The distance from the front vehicle is near, or the vehicle speed of the front vehicle is faster or similar with your vehicle
- The speed of the front vehicle is very slow or is at a standstill
- The accelerator pedal is depressed right after Smart Cruise Control is turned on

WARNING

Take the following precautions when using Smart Cruise Control:

- Smart Cruise Control does not substitute for proper and safe driving. It is the responsibility of the driver to always check the speed and distance to the vehicle ahead.
- Smart Cruise Control may not recognize unexpected and sudden situations or complex driving situations, so always pay attention to driving conditions and control your vehicle speed.
- Keep Smart Cruise Control off when the function is not in use to avoid inadvertently setting a speed.
- Do not open the door or leave the vehicle when Smart Cruise Control is operating, even if the vehicle is stopped.
- Always be aware of the selected speed and vehicle distance.
- Keep a safe distance according to road conditions and vehicle speed. If the vehicle distance is too close during high-speed driving, a serious collision may result.
- When maintaining distance with the vehicle ahead, if the front vehicle disappears, the system may suddenly accelerate to the set speed. Always be aware of unexpected and sudden situations from occurring.
- Vehicle speed may decrease on an upward slope and increase on a downward slope.
- Always be aware of situations such as when a vehicle cuts in suddenly.

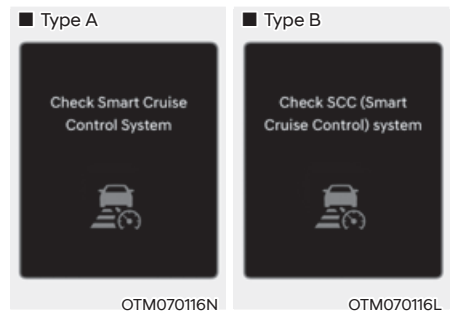
- When you are towing a trailer or another vehicle, we recommend that Smart Cruise Control is turned off due to safety reasons.
- Turn off Smart Cruise Control when your vehicle is being towed.
- Smart Cruise Control may not operate normally if interfered by strong electromagnetic waves.
- Smart Cruise Control may not detect an obstacle in front and lead to a collision. Always look ahead cautiously to prevent unexpected and sudden situations from occurring.
- Vehicles moving in front of you with a frequent lane change may cause a delay in the system's reaction or may cause the system to react to a vehicle actually in an adjacent lane. Always drive cautiously to prevent unexpected and sudden situations from occurring.
- Always be aware of the surroundings and drive safely, even though a warning message does not appear or an audible warning does not sound.
- If any other function's warning message is displayed or warning sound is generated, Smart Cruise Control warning message may not be displayed and warning sound may not be generated.
- You may not hear the warning sound of Forward Collision-Avoidance Assist if the surrounding is noisy.
- The vehicle manufacturer is not responsible for any traffic violation or accidents caused by the driver.
- Always set the vehicle speed to the speed limit in your country.


i Information

- Smart Cruise Control may not operate for 15 seconds after the vehicle is started or the front view camera or front radar is initialized.
- You may hear a sound when the brake is controlled by Smart Cruise Control.

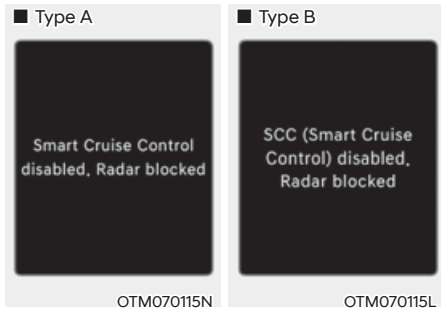
Smart Cruise Control malfunction and limitations

Smart Cruise Control malfunction



When Smart Cruise Control is not working properly, the 'Check Smart Cruise Control system' (or 'Check SCC (Smart Cruise Control) system') warning message will appear, and the  warning light will illuminate on the cluster. We recommend that the function be inspected by an authorized HYUNDAI dealer.

Smart Cruise Control disabled



When the front radar cover or sensor is covered with snow, rain, or foreign material, it can reduce the detecting performance and temporarily limit or disable Smart Cruise Control.

If this occurs the 'Smart Cruise Control disabled. Radar blocked' (or 'SCC (Smart Cruise Control) disabled. Radar blocked' warning message will appear for a certain period of time on the cluster.

The function will operate normally when snow, rain or foreign material is removed.

WARNING

- **Even though the warning message does not appear on the cluster, Smart Cruise Control may not properly operate.**
- **Smart Cruise Control may not properly operate in an area (e.g. open terrain), where there is nothing to detect after turning ON the engine.**

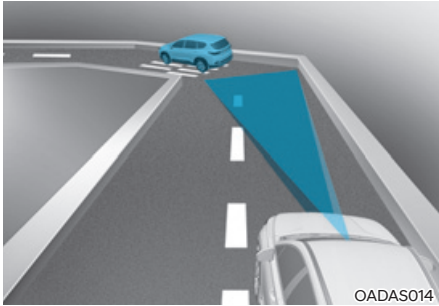
Limitations of Smart Cruise Control

Smart Cruise Control may not operate normally, or the function may operate unexpectedly under the following circumstances:

- The detecting sensor or the surroundings are contaminated or damaged
- Washer fluid is continuously sprayed, or the wiper is on
- The camera lens is contaminated due to tinted, filmed or coated windshield, damaged glass, or stuck of foreign material (sticker, bug, etc.) on the glass
- Moisture is not removed or frozen on the windshield
- The field of view of the front view camera is obstructed by sun glare
- Street light or light from an oncoming vehicle is reflected on the wet road surface, such as a puddle on the road
- The temperature around the front view camera is high or low
- An object is placed on the dashboard
- The surrounding is very bright
- The surrounding is very dark, such as in a tunnel, etc.
- The brightness changes suddenly, for example when entering or exiting a tunnel
- The brightness outside is low, and the headlamps are not on or are not bright
- Driving in heavy rain or snow, or thick fog
- Driving through steam, smoke or shadow

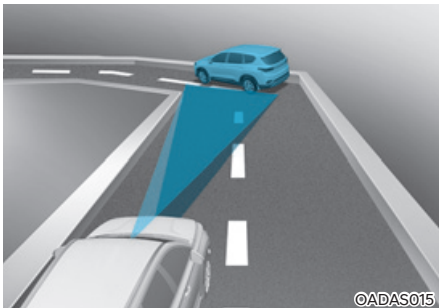
- Only part of the vehicle is detected
- The vehicle in front has no tail lights, tail lights are located unusually, etc.
- The brightness outside is low, and the tail lamps are not on or are not bright
- The rear of the front vehicle is small or does not look normal (i.e. tilted, overturned, etc.)
- The front vehicle's ground clearance is low or high
- A vehicle suddenly cuts in front
- Your vehicle is being towed
- Driving through a tunnel or iron bridge
- Driving near areas containing metal substances, such as a construction zone, railroad, etc.
- A material is near that reflects very well on the front radar, such as a guardrail, nearby vehicle, etc.
- The bumper around the front radar is impacted, damaged or the front radar is out of position
- The temperature around the front radar is high or low
- Driving in large areas where there are few vehicles or structures (i.e. desert, meadow, suburb, etc.)
- The vehicle in front is made of material that does not reflect on the front radar
- Driving near a highway (or motorway) interchange or tollgate
- Driving on a slippery surface due to snow, water puddle, ice, etc.
- Driving on a curved road
- The vehicle in front is detected late
- The vehicle in front is suddenly blocked by an obstacle
- The vehicle in front suddenly changes lane or suddenly reduces speed
- The vehicle in front is bent out of shape
- The front vehicle's speed is fast or slow
- With a vehicle in front, your vehicle changes lane at low speed
- The vehicle in front is covered with snow
- Unstable driving
- You are on a roundabout and the vehicle in front is not detected
- You are continuously driving in a circle
- Driving in a parking lot
- Driving through a construction area, unpaved road, partial paved road, uneven road, speed bumps, etc.
- Driving on an incline road, curved road, etc.
- Driving through a roadside with trees or streetlights
- The adverse road conditions cause excessive vehicle vibrations while driving
- Your vehicle height is low or high due to heavy loads, abnormal tire pressure, etc.
- Driving through a narrow road where trees or grass are overgrown
- There is interference by electromagnetic waves, such as driving in an area with strong radio waves or electrical noise

- Driving on a curve



On curves, Smart Cruise Control may not detect a vehicle in the same lane, and may accelerate to the set speed. Also, vehicle speed may rapidly decrease when the vehicle ahead is detected suddenly.

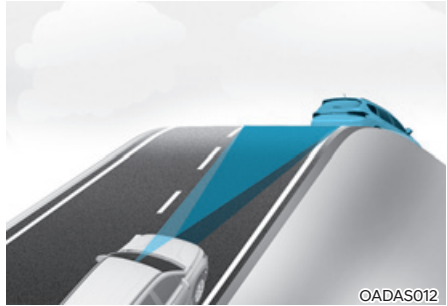
Select the appropriate set speed on curves and apply the brake pedal or accelerator pedal according to the road and driving conditions ahead.



Your vehicle speed can be reduced due to a vehicle in the adjacent lane.

Apply the accelerator pedal and select the appropriate set speed. Check to be sure that the road conditions permit safe operation of the Smart Cruise Control.

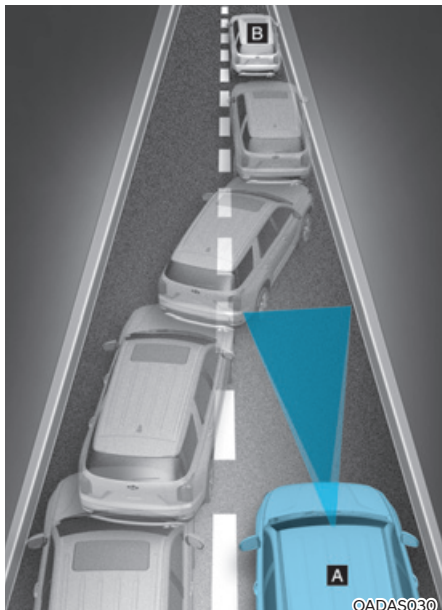
- Driving on a slope



During uphill or downhill driving, the Smart Cruise Control may not detect a moving vehicle in your lane, and cause your vehicle to accelerate to the set speed. Also, vehicle speed will rapidly decrease when the vehicle ahead is detected suddenly.

Select the appropriate set speed on inclines and apply the brake pedal or accelerator pedal according to the road and driving conditions ahead.

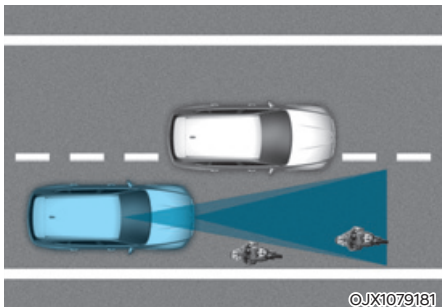
- Changing lanes



[A] : Your vehicle, [B] : Lane changing vehicle

When a vehicle moves into your lane from an adjacent lane, it cannot be detected by the sensor until it is in the sensor's detection range. Smart Cruise Control may not immediately detect the vehicle when the vehicle changes lanes abruptly. In this case, you must maintain a safe braking distance, and if necessary, depress the brake pedal to reduce your driving speed in order to maintain a safe distance.

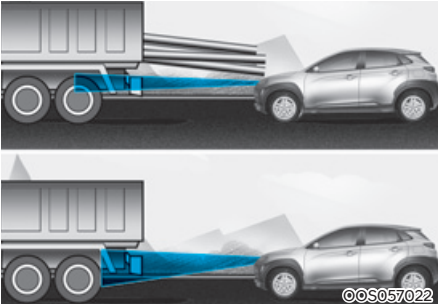
- Detecting vehicle



In the following cases, some vehicles in your lane cannot be detected by the sensor:

- Vehicles offset to one side
- Slow-moving vehicles or sudden-decelerating vehicles
- Oncoming vehicles
- Stopped vehicles
- Vehicles with small rear profile, such as trailers
- Narrow vehicles, such as motorcycles or bicycles
- Special vehicles
- Animals and pedestrians

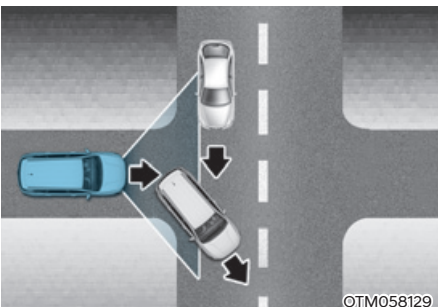
Adjust your vehicle speed by depressing the brake pedal according to the road and driving conditions ahead.



In the following cases, the vehicle in front cannot be detected by the sensor:

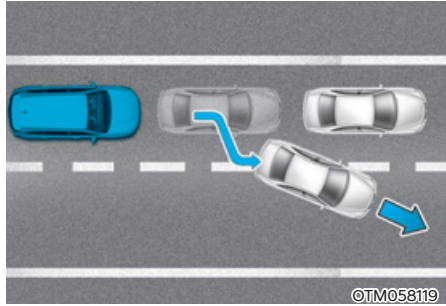
- Vehicles with higher ground clearance or vehicles carrying loads that stick out of the back of the vehicle
- Vehicles that has the front lifted due to heavy loads
- You are steering your vehicle
- Driving on narrow or sharply curved roads

Adjust your vehicle speed by depressing the brake pedal according to the road and driving conditions ahead.



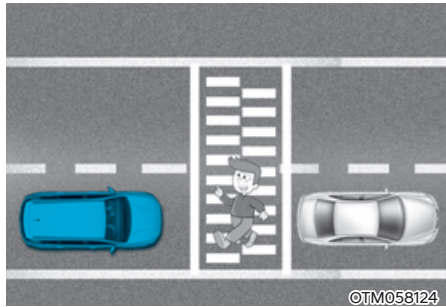
- When a vehicle ahead disappears at an intersection, your vehicle may accelerate.

Always pay attention to road and driving conditions while driving.



- When a vehicle in front of you merges out of the lane, Smart Cruise Control may not immediately detect the new vehicle that is now in front of you.

Always pay attention to road and driving conditions while driving.



- Always look out for pedestrians when your vehicle is maintaining a distance with the vehicle ahead.

NAVIGATION-BASED SMART CRUISE CONTROL (NSCC) (IF EQUIPPED)

Navigation-based Smart Cruise Control will help automatically adjust vehicle speed when driving on highways (or motorways) by using road information from the navigation system while Smart Cruise Control is operating.

i Information

Navigation-based Smart Cruise Control is available only on controlled access road of certain highways.

- * **Controlled access road indicates roads with limited entrances and exits that allow uninterrupted high speed traffic flow. Only passenger cars and motorcycles are allowed on controlled access roads.**

i Information

Navigation-based Smart Cruise Control operates on main roads of highways (or motorways), and does not operate on interchanges or junctions.

Highway Curve Zone Auto Slowdown

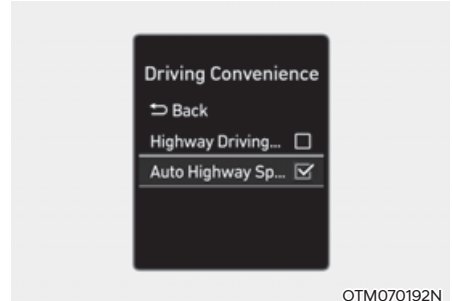
If vehicle speed is high, Highway Curve Zone Auto Slowdown function will temporarily decelerate your vehicle or limit acceleration to help you drive safely on a curve based on the curve information from the navigation.

Highway Set Speed Auto Change

Highway Set Speed Auto Change function automatically changes Smart Cruise Control set speed based on the speed limit information from the navigation.

Navigation-based Smart Cruise Control settings

Setting features



With the engine on, select 'Driver Assistance → Driving Convenience → Auto Highway Speed Control (or Auto motorway speed control)' from the Settings menu to turn on Navigation-based Smart Cruise Control and deselect to turn off the function.

i Information

When there is a problem with Navigation-based Smart Cruise Control, the function cannot be set from the Settings menu.

Navigation-based Smart Cruise Control operation

Operating conditions

Navigation-based Smart Cruise Control is ready to operate if all of the following conditions are satisfied:

- Smart Cruise Control is operating
- Driving on main roads of highways (or motorways)

i Information

For more details on how to operate Smart Cruise Control, refer to “Smart Cruise Control (SCC)” section in chapter 7.

Navigation-based Smart Cruise Control display and control

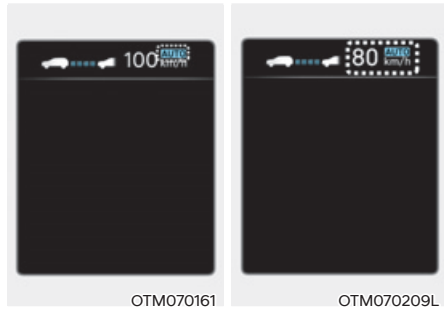
When Navigation-based Smart Cruise Control operates, it will be displayed on the cluster as follows:

- Function standby



If the operating conditions are satisfied, the white **AUTO** indicator will illuminate.

- Function operating



If temporary deceleration is required in the standby state and Navigation-based Smart Cruise Control is operating, the green **AUTO** symbol will illuminate on the cluster.

If the Highway Set Speed Auto Change function operates, the green **AUTO** symbol and set speed will illuminate on the cluster, and an audible warning will sound.

! WARNING



‘Drive carefully’ warning message will appear in the following circumstances:

- Navigation-based Smart Cruise Control is not able to slow down your vehicle to a safe speed

i Information



Highway Curve Zone Auto Slowdown and Highway Set Speed Auto Change function uses the same **AUTO symbol.**

Highway Curve Zone Auto Slowdown

- Depending on the curve ahead on the highway (or motorway), the vehicle will decelerate, and after passing the curve, the vehicle will accelerate to Smart Cruise Control set speed.
- Vehicle deceleration time may differ depending on the vehicle speed and the degree of the curve on the road. The higher the driving speed, deceleration will start faster.

Highway Set Speed Auto Change

- Highway Set Speed Auto Change function will operate when Smart Cruise Control set speed and the highway (or motorway) speed limit is matched.
- While Highway Set Speed Auto Change function is operating, when the highway (or motorway) speed limit changes, Smart Cruise Control set speed automatically changes to the changed speed limit.
- If Smart Cruise Control set speed is adjusted different from the speed limit, Highway Set Speed Auto Change function will be in the standby state.
- If Highway Set Speed Auto Change function has changed to the standby state by driving on a road other than the highway (or motorway) main road, Highway Set Speed Auto Change function will operate again when you drive on the main road again without setting the set speed.

- If Highway Set Speed Auto Change function has changed to the standby state by depressing the brake pedal or pressing the **||**  switch on the steering wheel, press the **||**  switch to restart the function.
- Highway Set Speed Auto Change function does not operate on highway interchanges or junctions.

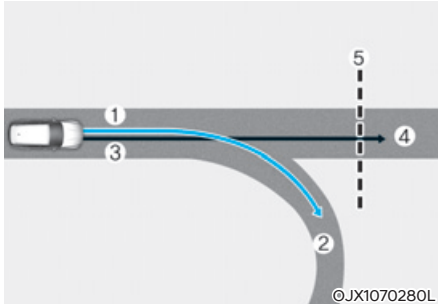
i Information

- **Highway Set Speed Auto Change function only operates based on the speed limits of the highway (or motorway), it does not work with speed cameras.**
- **When Highway Set Speed Auto Change function is operating, the vehicle automatically accelerates or decelerates when the highway (or motorway) speed limit changes.**
- **The maximum set speed for Highway Set Speed Auto Change function is 140 km/h (86 mph).**
- **If the speed limit of a new road is not updated in the navigation, Highway Set Speed Auto Change function may not operate properly.**
- **If the speed unit is set to a unit other than the speed unit used in your country, Highway Set Speed Auto Change function may not operate properly.**

Limitations of Navigation-based Smart Cruise Control

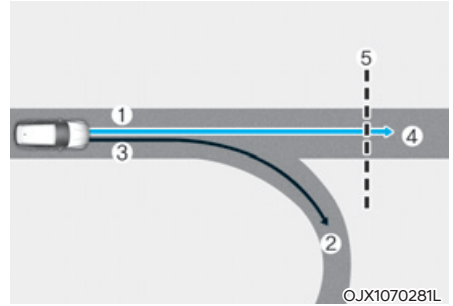
Navigation-based Smart Cruise Control may not operate normally under the following circumstances:

- The navigation is not working properly
- Speed limit and road information in the navigation is not updated
- The map information and the actual road is different because of real-time GPS data or map information error
- The navigation searches for a route while driving
- GPS signals are blocked in areas such as a tunnel
- The navigation is updated while driving
- Map information is not transmitted due to infotainment system's abnormal operation
- A road that divides into two or more roads and joins again
- The driver goes off course the route set in the navigation
- The route to the destination is changed or canceled by resetting the navigation
- The vehicle enters a service station or rest area
- The speed limit of some sections changes according to the road situations
- Android Auto or Car Play is operating
- The navigation cannot detect the current vehicle position (ex: elevated roads including overpass adjacent to general roads or nearby roads exist in a parallel way)
- The navigation is being updated while driving
- The navigation is being restarted while driving
- There is bad weather, such as heavy rain, heavy snow, etc.
- Driving on a road under construction
- Driving on a road that is controlled
- Driving on a road that is sharply curved
- Driving on roads with intersections, roundabouts, straight entrances and exits, etc.



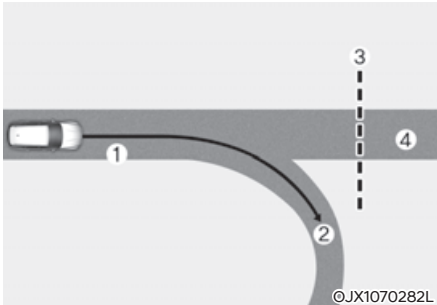
[1] : Set route, [2] : Branch line, [3] : Driving route,
[4] : Main road, [5] : Curved road section

- When there is a difference between the navigation set route (branch line) and the driving route (main road), Highway Curve Zone Auto Slowdown function may not operate until the driving route is recognized as the main road.
- When the vehicle's driving route is recognized as the main road by maintaining the main road instead of the navigation set route, Highway Curve Zone Auto Slowdown function will operate. Depending on the distance to the curve and the current vehicle speed, vehicle deceleration may not be sufficient or may decelerate rapidly.



[1] : Set route, [2] : Branch line, [3] : Driving route,
[4] : Main road, [5] : Curved road section

- When there is a difference between the navigation route (main road) and the driving route (branch line), Highway Curve Zone Auto Slowdown function will operate based on the curve information on the main road.
- When it is judged that you are driving out of the route by entering the highway interchange or junction, Highway Curve Zone Auto Slowdown function will not operate.



[1] : Driving route, [2] : Branch line,
[3] : Curved road section, [4] : Main road

- If there is no destination set on the navigation, Highway Curve Zone Auto Slowdown function will operate based on the curve information on the main road.
- Even if you depart from the main road, Highway Curve Zone Auto Slowdown function may temporarily operate due to navigation information of the highway curve section.

WARNING

- Navigation-based Smart Cruise Control is not a substitute for safe driving practices, but a convenience function. Always have your eyes on the road, and it is the responsibility of the driver to avoid violating traffic laws.
- The navigation's speed limit information may differ from the actual speed limit information on the road. It is the driver's responsibility to check the speed limit on the actual driving road or lane.
- Navigation-based Smart Cruise Control will automatically be cancelled when you leave the highway (or motorway) main road. Always pay attention to road and driving conditions while driving.
- Navigation-based Smart Cruise Control may not operate due to the existence of leading vehicles and the driving conditions of the vehicle. Always pay attention to road and driving conditions while driving.
- When you are towing a trailer or another vehicle, we recommend that Navigation-based Smart Cruise Control is turned off due to safety reasons.

- After you pass through a tollgate on a highway (or motorway), Navigation-based Smart Cruise Control will operate based on the first lane. If you enter one of the other lanes, the system may not operate properly.
- The vehicle will accelerate if the driver depresses the accelerator pedal while Navigation-based Smart Cruise Control is operating, and the system will not decelerate the vehicle.
- If the driver accelerates and releases the accelerator pedal while Navigation-based Smart Cruise Control is operating, the vehicle may not decelerate sufficiently or may rapidly decelerate to a safe speed.
- If the curve is too large or too small, Navigation-based Smart Cruise Control may not operate.

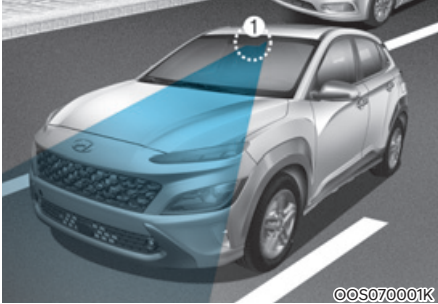
Information

- The time gap could occur between the navigation's guidance and when Navigation-based Smart Cruise Control operation starts and ends.
- The speed information on the cluster and navigation may differ.
- Even if you are driving at a speed lower than Smart Cruise Control set speed, acceleration may be limited by the curve sections ahead.
- If Navigation-based Smart Cruise Control is operating while leaving the main road to enter an interchange, junction, rest area, etc., the system may operate for a certain period of time.
- Deceleration by Navigation-based Smart Cruise Control may feel it is not sufficient due to road conditions such as uneven road surfaces, narrow lanes, etc.

LANE FOLLOWING ASSIST (LFA) (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 center the vehicle in the lane.

Detecting sensor (Front view camera)



[1] : Front view camera

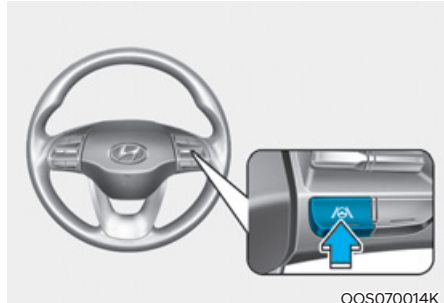
The front view camera is used as a detecting sensor to help detect lane markings and vehicles in front.

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 chapter 7.

Lane Following Assist settings Setting features

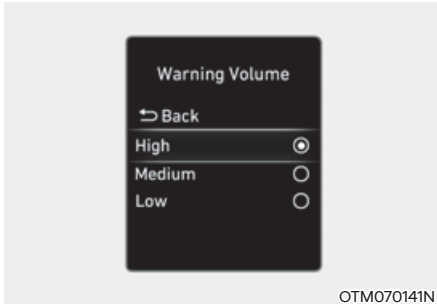


Turning the system ON/OFF

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 cluster.

Press the button again to turn off the system.

If the engine is restarted, Lane Following Assist will maintain the last setting.



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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




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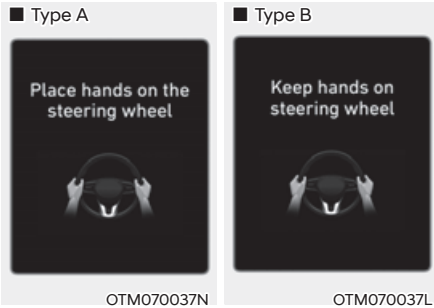
Lane Following Assist

If the vehicle ahead and/or both lane markings are detected and your vehicle speed is below 200 km/h (120 mph), the green  indicator light will illuminate on the cluster, and the function will help center the vehicle in the lane by assisting the steering wheel.



CAUTION

When the steering wheel is not assisted, the green  indicator light will blink and change to white.

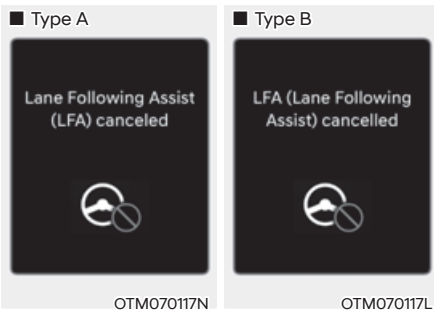


Hands-off warning

If the driver takes their hands off the steering wheel for several seconds, the 'Place hands on the steering wheel' (or 'Keep hands on the steering wheel') warning message will appear and an audible warning will sound in stages.

First stage : Warning message

Second stage : Warning message (red steering wheel) and audible warning



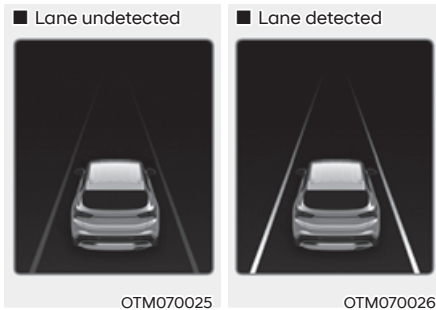
If the driver still does not have their hands on the steering wheel after the hands-off warning, the 'Lane Following Assist (LFA) canceled' (or 'LFA (Lane Following Assist) cancelled') warning message will appear and Lane Following Assist will be automatically canceled.

WARNING

- Lane Following Assist does not operate at all times. It is the responsibility of the driver to safely steer the vehicle and to maintain the vehicle in its lane.
- The hands-off warning message may appear late depending on road conditions. Always have your hands on the steering wheel while driving.
- If the steering wheel is held very lightly the hands-off warning message may appear because the system may not recognize that the driver has their hands on the steering wheel.
- If you attach objects to the steering wheel, the hands-off warning may not work properly.

i Information

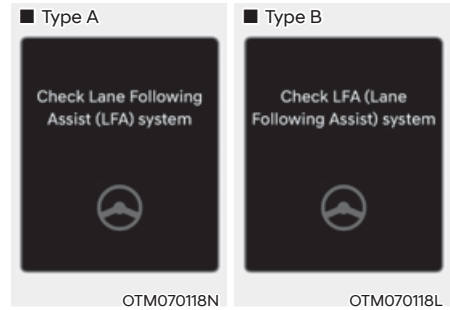
- You may change settings from the instrument cluster (User Settings) or infotainment system (Vehicle Settings), whichever option that is provided with your vehicle. For more details, see "User Settings" section in chapter 4, or "Vehicle Settings" section in supplied Infotainment Manual.
- When both lane markings are detected, the lane lines on the 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 Lane Following Assist (LFA) system' (or 'Check LFA (Lane Following Assist) system') warning message will appear on the cluster. If this occurs, we recommend that the function be inspected by an authorized HYUNDAI dealer.

! WARNING

For more details on the function precautions, refer to "Lane Keeping Assist (LKA)" section in chapter 7.

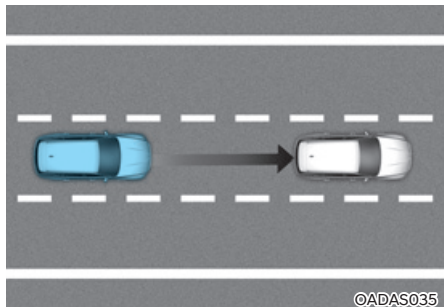
Limitations of Lane Following Assist

For more details on system limitations, refer to "Lane Keeping Assist (LKA)" section in chapter 7.

HIGHWAY DRIVING ASSIST (HDA) (IF EQUIPPED)

Basic function

Highway Driving Assist is designed to help detect vehicles and lanes ahead, and help maintain distance from the vehicle ahead, maintain the set speed, and help center the vehicle in the lane while driving on the highway (or motorway).

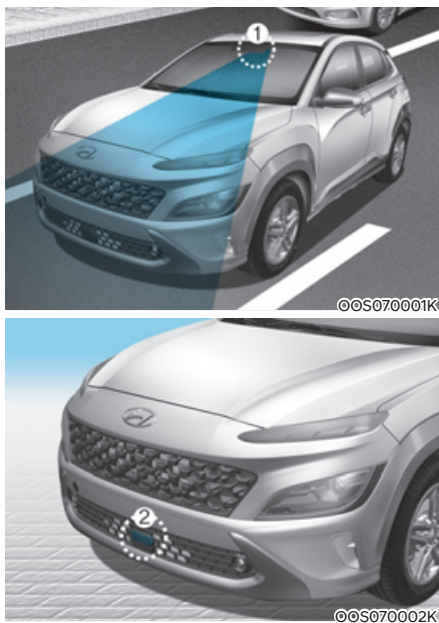


i Information

The Highway Driving Assist is available only on controlled access road of certain highways.

- * **Controlled access road indicates roads with limited entrances and exits that allow uninterrupted high speed traffic flow. Only passenger cars and motorcycles are allowed on controlled access roads.**

Detecting sensor (Front view camera, Front radar)



- [1] : Front view camera,
- [2] : Front radar

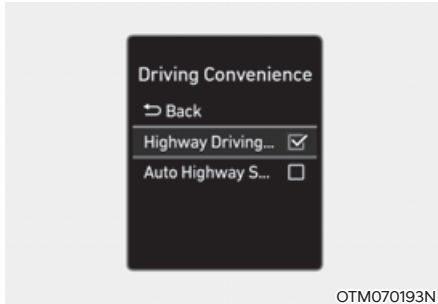
Refer to the picture above for the detailed location of the detecting sensors.

⚠ CAUTION

For more details on the precautions of the detecting sensors, refer to “Forward Collision-Avoidance Assist (FCA)” section in chapter 7.

Highway Driving Assist settings

Setting features



Highway Driving Assist

With the engine on, select or deselect 'Driver Assistance → Driving Convenience' from the Settings menu to set whether or not to use the following function(s).

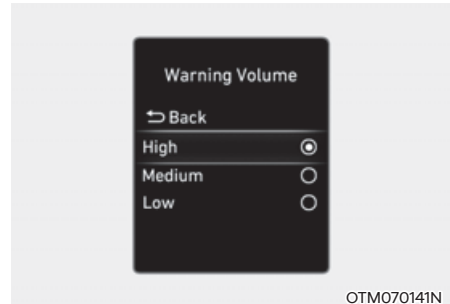
- If 'Highway Driving Assist' (or 'HDA (Motorway Driving Assist)') is selected, it helps maintain distance from the vehicle ahead, maintain the set speed, and helps center the vehicle in the lane.

i Information

- **If there is a problem with the function(s), the settings cannot be changed. We recommend that the function be inspected by an authorized HYUNDAI dealer.**
- **If the engine is restarted, the function(s) will maintain the last setting.**

! WARNING

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



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.

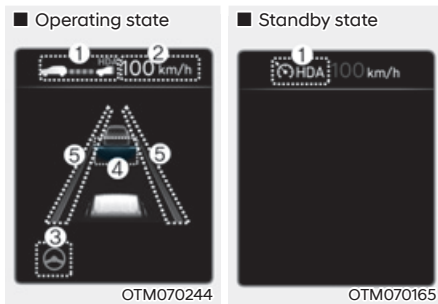
Highway Driving Assist operation

Highway Driving Assist display and control

Function display and control

You can see the status of the Highway Driving Assist operation in the Driving Assist mode on the cluster. Refer to “LCD Display Modes” section in chapter 4.

Highway Driving Assist will be displayed as below depending on the status of the system.



- (1) Highway Driving Assist indicator, whether there is a vehicle ahead and the selected distance level are displayed.

- * Highway Driving Assist indicator
- Green HDA : Operating state
 - White HDA : Standby state

- (2) Set speed is displayed.
- (3) Lane Following Assist indicator displayed.
- (4) Whether there is a vehicle ahead and the selected vehicle distance are displayed.
- (5) Whether the lane is detected or not is displayed.

For more details on the display refer to “Smart Cruise Control (SCC)” and “Lane Following Assist (LFA)” sections in chapter 7.

Function operating

Highway Driving Assist will operate when entering or driving on the main road of highways (or motorways), and satisfying all the following conditions:


- Lane Following Assist is operating
- Smart Cruise Control is operating

i Information

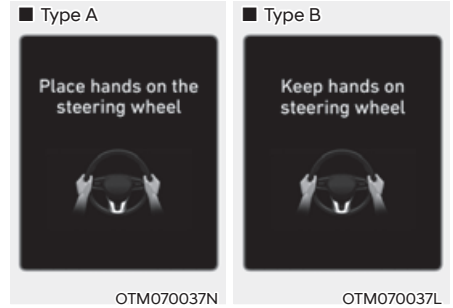
- **While driving on the highway (or motorway), if Smart Cruise Control starts operating, Highway Driving Assist will operate.**
- **When entering the main roads of highways (or motorways), Highway Driving Assist will not turn on if the Lane Following Assist is turned off even when Smart Cruise Control is operating.**

- Restarting after stopping



When Highway Driving Assist is operating, your vehicle will stop if the vehicle ahead of you stops. Also, if the vehicle ahead of you starts moving within 30 seconds after the stop, your vehicle will start as well. In addition, after the vehicle has stopped and 30 seconds have passed, the 'Use switch or pedal to accelerate' message will appear on the cluster. Depress the accelerator pedal or push the + switch, - switch or  switch to start driving.

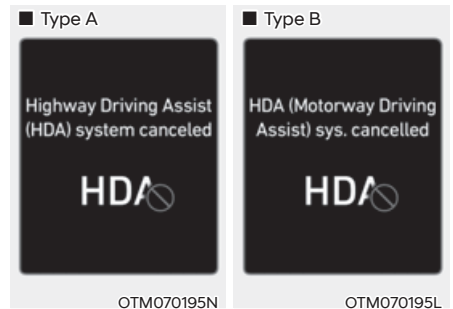
- Hands-off warning



If the driver takes their hands off the steering wheel for several seconds, the 'Place hands on the steering wheel' (or 'Keep hands on the steering wheel') warning message will appear and an audible warning will sound in stages.

First stage : Warning message

Second stage : Warning message (red steering wheel) and audible warning



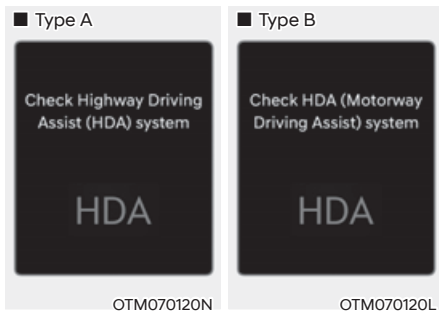
If the driver still does not have their hands on the steering wheel after the hands-off warning, the 'Highway Driving Assist (HDA) canceled' (or 'HDA (Highway Driving Assist) cancelled') warning message will appear and Highway Driving Assist and Lane Change Assist will be automatically canceled.


Function standby

When Smart Cruise Control is temporarily canceled while Highway Driving Assist is operating, Highway Driving Assist will be in the standby state. At this time, Lane Following Assist will operate normally.

Highway Driving Assist malfunction and limitations

Highway Driving Assist malfunction



When Highway Driving Assist or Highway Lane Change function is not working properly, the 'Check Highway Driving Assist (HDA) system' (or 'Check HDA (Motorway Driving Assist) system') warning message will appear, and the  warning light will illuminate on the cluster. We recommend that the function be inspected by an authorized HYUNDAI dealer.

WARNING

- The driver is responsible for controlling the vehicle for safe driving.
- Always have your hands on the steering wheel while driving.
- Highway Driving Assist is a supplemental Function that assists the driver in driving the vehicle and is not a complete autonomous driving system. Always check road conditions, and if necessary, take appropriate actions to drive safely.
- Always have your eyes on the road, and it is the responsibility of the driver to avoid violating traffic laws. The vehicle manufacturer is not responsible for any traffic violation or accidents caused by the driver.
- Highway Driving Assist may not be able to recognize all traffic situations. The Function may not detect possible collisions due to limitations of the system. Always be aware of the limitations of the system. Obstacles such as vehicles, motorcycles, bicycles, pedestrians, unspecified objects, structures, etc. that may collide with the vehicle may not be detected.
- Highway Driving Assist will turn off automatically under the following situations:
 - Driving on roads that the system does not operate, such as a rest area, intersection, junction, etc.
 - The navigation does not operate properly such as when the navigation is being updated or restarted

- Highway Driving Assist may inadvertently operate or turn off depending on road conditions (navigation information) and surroundings.
- Lane Following Assist may be temporarily disabled when the front view camera cannot detect lanes properly or the hands-off warning is on.
- You may not hear the warning sound of Highway Driving Assist if the surrounding is noisy.
- If the vehicle is driven at high speed above a certain speed at a curve, your vehicle may drive to one side or may depart from the driving lane.
- When you are towing a trailer or another vehicle, we recommend that Highway Driving Assist is turned off due to safety reasons.
- The hands-off warning message may appear early or late depending on how the steering wheel is held or road conditions. Always have your hands on the steering wheel while driving.
- For your safety, please read the owner's manual before using the Highway Driving Assist.
- Highway Driving Assist will not operate when the engine is started, or when the detecting sensors or navigation is being initialized.

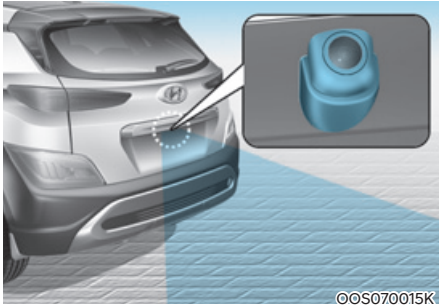
Limitations of Highway Driving Assist

Highway Driving Assist may not operate normally, or may not operate under the following circumstances:

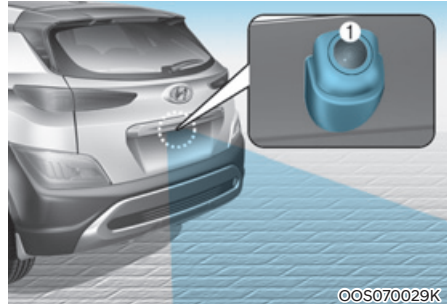
- The map information and the actual road is different because the navigation is not updated
- The map information and the actual road is different because of real-time GPS data or map information error
- The infotainment system is overloaded by simultaneously performing functions such as route search, video playback, voice recognition, etc.
- GPS signals are blocked in areas such as a tunnel
- The driver goes off course or the route to the destination is changed or canceled by resetting the navigation
- The vehicle enters a service station or rest area
- Android Auto or Car Play is operating
- The navigation cannot detect the current vehicle position (ex: elevated roads including overpass adjacent to general roads or nearby roads exist in a parallel way)

For more details on the limitations of the front view camera, front radar, front corner radar and rear corner radar, refer to “Forward Collision-Avoidance Assist (FCA)” section in chapter 7.

REAR VIEW MONITOR (RVM)

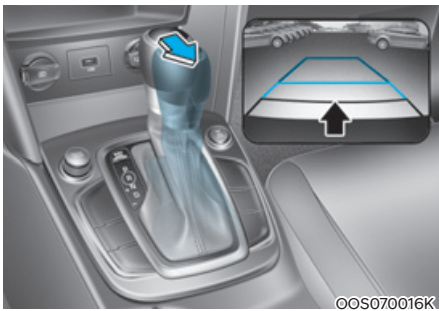


Detecting sensor



[1] : Rear view camera

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



Rear View Monitor will show the area behind the vehicle to assist you when parking or backing up.

WARNING

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.

Rear View Monitor settings

Camera settings

- You can change Rear View Monitor settings by pressing the setup icon (⚙️) on the screen while the system is operating, or select 'Driver Assistance → Parking Safety → Camera Settings' from the Settings menu while 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

Operation button



Parking/View button (if equipped)

Press the Parking/View button to turn on Rear View Monitor.

Press the button again to turn off the system.

Rear view

Operating conditions

- Shift the gear to R (Reverse), the image will appear on the screen.
- Press the Parking/View button while 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 while the gear is in P (Park) with the rear view on the screen, the rear view will turn off.
- Shift the gear from R (Reverse) to P (Park), the rear view will turn off.

Maintaining rear view

The rear view will maintain 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 10 km/h (6 mph), the rear view will turn off.
- Shift the gear to P (Park), the rear view will turn off.

Rear view while driving (if equipped)



The driver is able to check the rear view on the screen while driving, it is to assist with safe driving.


Operating conditions

Press the Parking/View button while the gear is in D (Drive) or N (Neutral), the driving rear view will appear on the screen.

Off conditions

- Press the Parking/View button again, the driving rear view will turn off.
- Press one of the infotainment system button, the driving rear view will turn off.
- Shift the gear to P (Park), the driving rear view will turn off.

When operating

- If the gear is shifted to R (Reverse), while Driving rear view is displayed on the screen, the screen will change to rear view with parking guidance.
- When Driving rear view is displayed on the screen, an  icon will appear on the upper right side of the screen indicating that the rear view is being displayed.

Rear top view (if equipped)



When you touch the icon (1), the top view is displayed on the screen and shows the distance from the vehicle in the back of your vehicle while parking.

Rear View Monitor malfunction and limitations

Rear View Monitor malfunction

When Rear View Monitor is not working properly, or the screen flickers, or the camera image does not display normally, we recommend that the function be inspected by an authorized HYUNDAI dealer.

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.

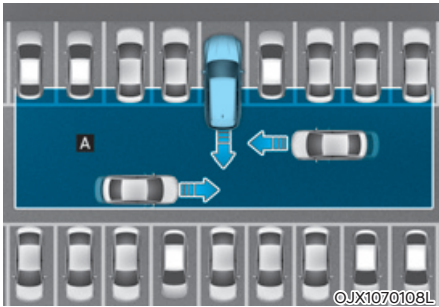


WARNING

- The camera does not cover the complete area behind the vehicle. The driver should always check the rear area directly through the inside and outside rearview mirror before parking or backing up.
- The image shown on the screen may differ from the actual distance of the object. Make sure to directly check the vehicle's surroundings for safety.
- Always keep the rear view camera lens clean. If the lens is covered with foreign material, it may adversely affect camera performance and Rear View Monitor may not operate normally. However, do not use chemical solvents such as strong detergents containing high alkaline or volatile organic solvents (gasoline, acetone etc.). This may damage the camera lens.

REAR CROSS-TRAFFIC COLLISION WARNING (RCCW) (IF EQUIPPED)

Rear Cross-Traffic Collision Warning Assist is designed to help detect vehicles approaching from the left and right side while your vehicle is reversing, and warn the driver that a collision is imminent with a warning message and an audible warning.



[A] : Rear Cross-Traffic Collision Warning operating range

CAUTION

The time of warning may vary depending on vehicle speed of the approaching vehicle.

Information

In the following text, Rear Cross-Traffic Collision Warning will be referred as Rear Cross-Traffic Safety system.

Detecting sensor (Rear corner radar)



[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 chapter 7.

Rear Cross-Traffic Collision Warning settings

Setting features



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 Safety system and deselect to turn off the system.



WARNING

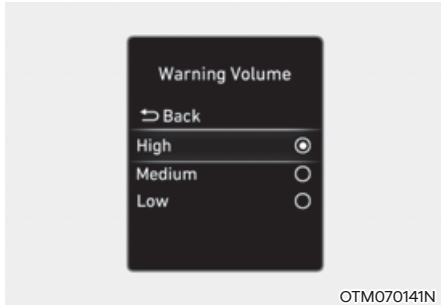
When the engine is restarted, Rear Cross-Traffic Safety system will always turn on. However, if 'Off' is selected after the engine is restarted, the driver should always be aware of the surroundings and drive safely.



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 Safety system.

When the vehicle is first delivered, Warning Timing is set to 'Normal'. If you change the Warning Timing, the warning time of other Driver Assistance systems may change.



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Warning Volume

With the 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 Safety system.

If you change the Warning Volume, the Warning Volume of other Driver Assistance systems may change.

CAUTION

- The setting of the Warning Timing and Warning Volume applies to all functions of the Rear Cross-Traffic Safety.
- Even though 'Normal' is selected for Warning Timing, if the vehicles from the left and right side approaches at high speed, the initial warning activation time may seem late.
- Select 'Late' for Warning Timing when traffic is light and when driving speed is slow.

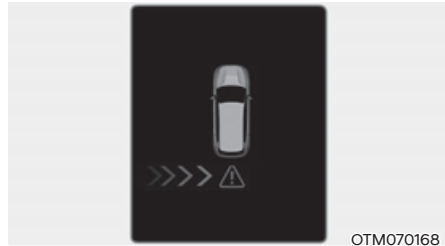
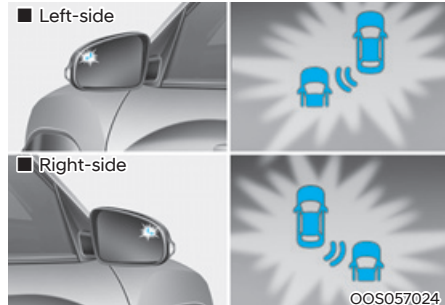
Information

If the engine is restarted, Warning Timing and Warning Volume will maintain the last setting.

Rear Cross-Traffic Collision Warning operation

Warning and control

Rear Cross-Traffic Safety system 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.

- The function will operate when all the following conditions are satisfied:
 - The gear is shifted to R (Reverse)
 - Vehicle speed is below 8 km/h (5 mph)
 - The approaching vehicle is within approximately 25 m (82 ft.) from the left and right side of your vehicle
 - The speed of the vehicle approaching from the left and right is above 5 km/h (3 mph)

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).



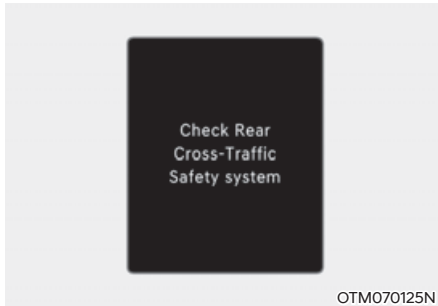
WARNING

Take the following precautions when using Rear Cross-Traffic Safety system:

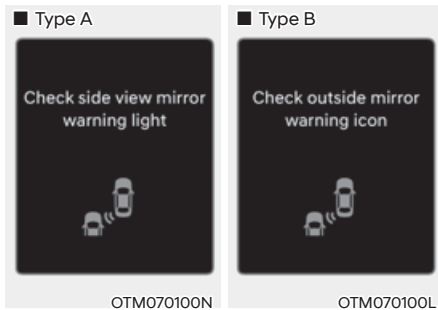
- For your safety, change the Settings after parking the vehicle at a safe location.
- If any other function's warning message is displayed or audible warning is generated, Rear Cross-Traffic Safety system's warning message may not be displayed and audible warning may not be generated.
- You may not hear the warning sound of Rear Cross-Traffic Safety system if the surrounding is noisy.
- Rear Cross-Traffic Safety system 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 Safety system. 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

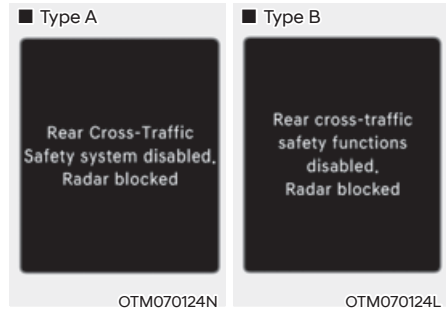


When Rear Cross-Traffic Safety system is not working properly, the 'Check Rear Cross-Traffic Safety system(s)' warning message will appear on the cluster, and the function will turn off automatically, or the system will be limited. We recommend that the system be inspected by an authorized HYUNDAI dealer.



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. We recommend that the function be inspected by an authorized 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 Safety system.

If this occurs, the 'Rear Cross-Traffic Safety system disabled. Radar blocked' (or 'Rear cross-traffic safety functions disabled. Radar blocked') warning message will appear on the cluster.

The function will operate normally when such foreign material or trailer, etc. is removed.

If the function does not operate normally after it is removed, we recommend that the function be inspected by an authorized HYUNDAI dealer.

WARNING

- Even though the warning message does not appear on the cluster, Rear Cross-Traffic Safety system may not operate properly.
- Rear Cross-Traffic Safety system may not operate properly in an area (for example: open terrain), where any substance are not detected after turning ON the engine.

CAUTION

Turn off Rear Cross-Traffic Safety system to install a trailer, carrier, etc., or remove the trailer, carrier, etc. to use Rear Cross-Traffic Safety system.

Limitations of Rear Cross-Traffic Collision Warning

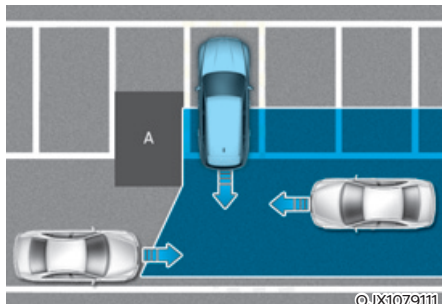
Rear Cross-Traffic Safety system may not operate normally, or the system may operate unexpectedly under the following circumstances:

- Departing from where trees or grass are overgrown
- Departing from where roads are wet
- Speed of the approaching vehicle is fast or slow

For more details on the limitations of the rear corner radar, refer to “Blind-Spot Collision-Avoidance Warning (BCW)” section in chapter 7.

WARNING

- Driving near a vehicle or structure

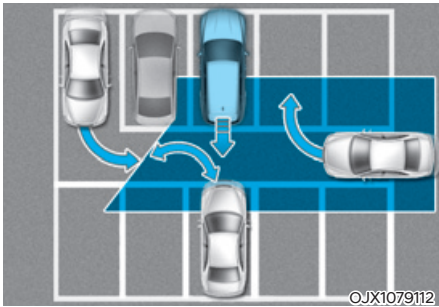


[A] : Structure

Rear Cross-Traffic Safety system 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 system may not warn the driver when necessary.

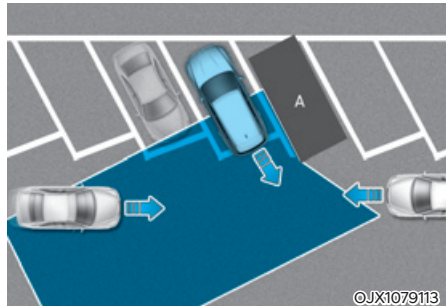
Always check your surroundings while backing up.

- When the vehicle is in a complex parking environment



Rear Cross-Traffic Safety system 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 system may unnecessarily warn the driver. Always check your surroundings while backing up.

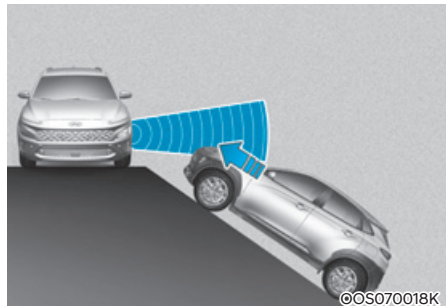
- When the vehicle is parked diagonally



[A] : Vehicle

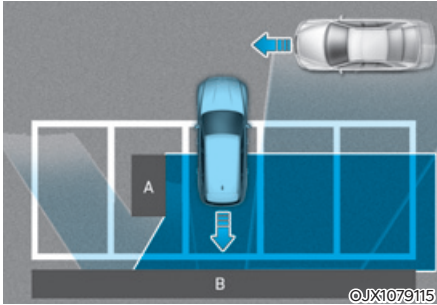
Rear Cross-Traffic Safety system may be limited when backing up diagonally, and may not detect the vehicle approaching from the left or right. If this occurs, the system may not warn the driver when necessary. Always check your surroundings while backing up.

- When the vehicle is on or near a slope



Rear Cross-Traffic Safety system 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 system may not warn the driver when necessary. Always check your surroundings while backing up.

- Pulling into the parking space where there is a structure

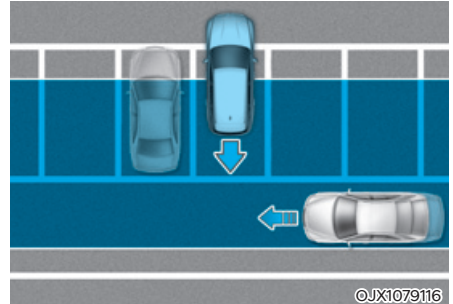


[A] : Structure, [B] : Wall

Rear Cross-Traffic Safety system 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 system may unnecessarily warn the driver.

Always check your surroundings while backing up.

- When the vehicle is parked rearward



Rear Cross-Traffic Safety system may detect vehicles passing by behind you when parking in reverse into a parking space. If this occurs, the system may unnecessarily warn the driver.

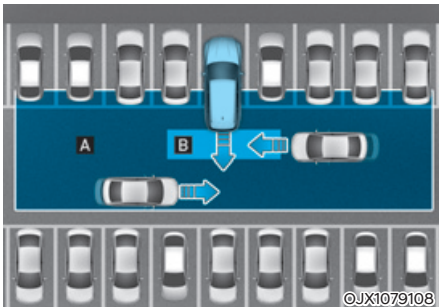
Always check your surroundings while backing up.

WARNING

- When you are towing a trailer or another vehicle, we recommend that Rear Cross-Traffic Safety system is turned off due to safety reasons.
- Rear Cross-Traffic Safety system may not operate normally if interfered by strong electromagnetic waves.
- Rear Cross-Traffic Safety system 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 left and right side while your vehicle is reversing, and warn the driver that a collision is imminent with a warning message and an audible warning. Also, braking is assisted to help prevent a collision.



[A] : Rear Cross-Traffic Collision Warning operating range,

[B] : Rear Cross-Traffic Collision-Avoidance Assist operating range

CAUTION

The time of warning may vary depending on vehicle speed of the approaching vehicle.

Detecting sensor (Rear corner radar)



[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 chapter 7.

Rear Cross-Traffic Collision-Avoidance Assist Settings

Setting features



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 system.



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.



Information

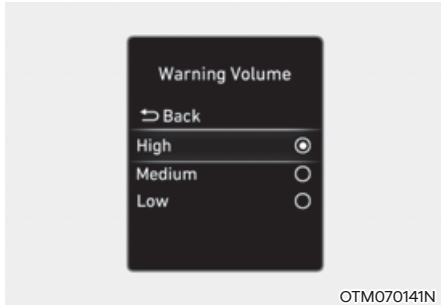
Settings for Rear Cross-Traffic Safety system include Rear Cross-Traffic Collision Warning and Rear Cross-Traffic Collision-Avoidance Assist.



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 time of other Driver Assistance systems may change.



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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 the Rear Collision-Avoidance Assist.
- Even though 'Normal' is selected for Warning Timing, if the vehicles from the left and right side approaches at high speed, the initial warning activation time may seem late.
- Select 'Late' for Warning Timing when traffic is light and when driving speed is slow.

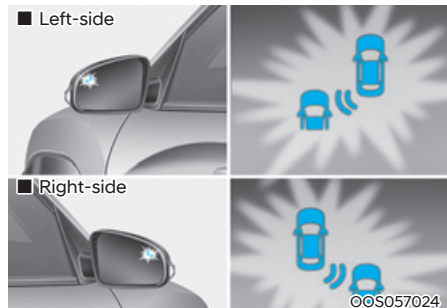
Information

If the engine is restarted, Warning Timing and Warning Volume will maintain the last setting.

Rear Cross-Traffic Collision-Avoidance operation

Warning and control

Rear Cross-Traffic Collision-Avoidance Assist will warn and control the vehicle depending on collision level: 'Collision Warning', 'Emergency Braking' and 'Stopping vehicle and ending brake control'.



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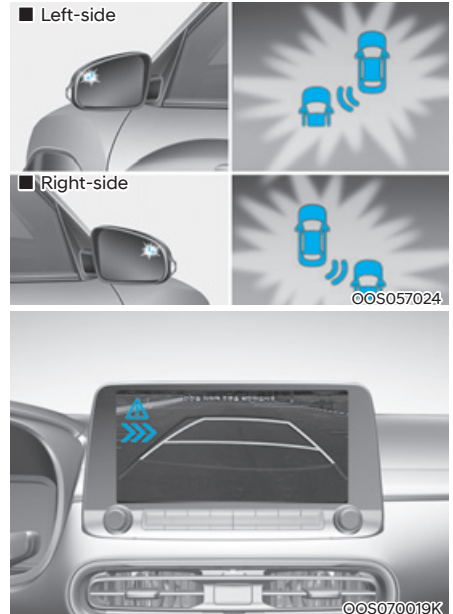
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Collision Warning

- To warn the driver of an approaching vehicle from the rear left/right side of your vehicle, the warning light on the outside rearview mirror will blink and a warning will appear on the cluster. At the same time, an audible warning will sound. If Rear View Monitor is operating, a warning will also appear on the infotainment system screen.
- Rear Cross-Traffic Collision-Avoidance Assist will operate when all the following conditions are satisfied:
 - The gear is shifted to R (Reverse)
 - Vehicle speed is below 8 km/h (5 mph)
 - The approaching vehicle is within approximately 25 m (82 ft.) from the left and right side of your vehicle
 - The speed of the vehicle approaching from the left and right is above 5 km/h (3 mph)

i Information

If the operating conditions are satisfied, there will be a warning whenever the vehicle approaches from the left or right side even though your vehicle speed is 0 km/h (0 mph).



Emergency Braking

- To warn the driver of an approaching vehicle from the rear left/right side of your vehicle, the warning light on the outside rearview mirror will blink and, the 'Emergency Braking' warning message 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-Avoidance Assist will operate when all the following conditions are satisfied:
 - The gear is shifted to R (Reverse)
 - Vehicle speed is below 8 km/h (5 mph)
 - The approaching vehicle is within approximately 1.5 m (5 ft.) from the left and right side of your vehicle
 - The speed of the vehicle approaching from the left and right is above 5 km/h (3 mph)
- Emergency braking will be assisted to help prevent collision with approaching vehicles from the left and right.



WARNING

Brake control will end when:

- **The approaching vehicle is out of the detecting range**
- **The approaching vehicle passes behind your vehicle**
- **The approaching vehicle does not drive toward your vehicle**
- **The approaching vehicle speed slows down**
- **The driver depresses the brake pedal with sufficient power**



Stopping vehicle and ending brake control

- When the vehicle is stopped due to emergency braking, the 'Drive carefully' warning message will appear on the cluster.
- For your safety, the driver should depress the brake pedal immediately and check the surroundings.
- Brake control will end after the vehicle is stopped by emergency braking for approximately 2 seconds.
- During emergency braking, braking control by Rear Cross-Traffic Collision-Avoidance Assist will automatically cancel when the driver excessively depresses the brake pedal.

WARNING

Take the following precautions when using Rear Cross-Traffic Collision-Avoidance Assist:

- For your safety, change the Settings after parking the vehicle at a safe location.
- If any other system's warning message is displayed or audible warning is generated, Rear Cross-Traffic Collision-Avoidance Assist's warning message may not be displayed and audible warning may not be generated.
- You may not hear the warning sound of Rear Cross-Traffic Collision-Avoidance Assist if the surrounding is noisy.
- Rear Cross-Traffic Collision-Avoidance Assist may not operate if the driver applies the brake pedal to avoid collision.
- During Rear Cross-Traffic Collision-Avoidance Assist operation, the vehicle may stop suddenly injuring passengers and shifting loose objects. Always have the seat belt on and keep loose objects secured.
- Even if there is a problem with Rear Cross-Traffic Collision-Avoidance Assist, the vehicle's basic braking performance will operate normally.
- Rear Cross-Traffic Collision-Avoidance Assist does not operate in all situations or cannot avoid all collisions.
- During emergency braking, braking control by the system will automatically cancel when the driver excessively depresses the accelerator pedal.
- Rear Cross-Traffic Collision-Avoidance Assist may warn the driver late or may not warn the driver depending on the road and driving conditions.
- The driver should hold the responsibility to control the vehicle. Do not solely depend on Rear Cross-Traffic Collision-Avoidance Assist. Rather, maintain a safe braking distance, and if necessary, depress the brake pedal to reduce driving speed or to stop the vehicle.
- Never deliberately operate Rear Cross-Traffic Collision-Avoidance Assist on people, animal, objects, etc. It may cause serious injury or death.

CAUTION

The brake control may not operate properly depending on the status of ESC (Electronic Stability Control).

There will only be a warning when:

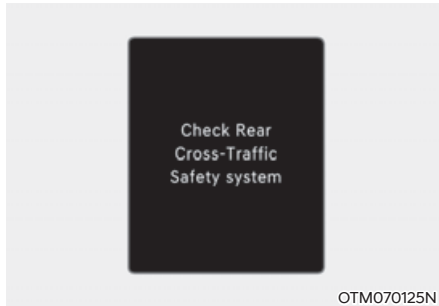
- The ESC (Electronic Stability Control) warning light is on
- ESC (Electronic Stability Control) is engaged in a different function

Information

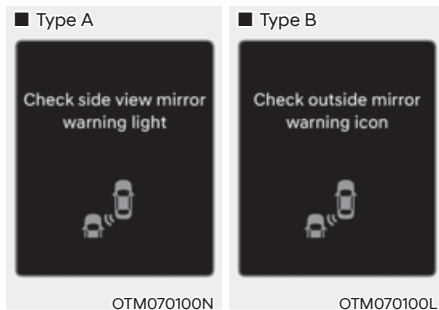
- If the system assists you with braking, the driver needs to pay attention as the brake assist will end within 2 seconds. The driver must immediately depress the brake pedal and check vehicle surroundings.
- Brake control will end when the driver depresses the brake pedal with sufficient power.
- After shifting the gear to R (Reverse), braking control will operate once for left and right vehicle approach.

Rear Cross-Traffic Collision-Avoidance Assist malfunction and limitations

Rear Cross-Traffic Collision-Avoidance Assist malfunction

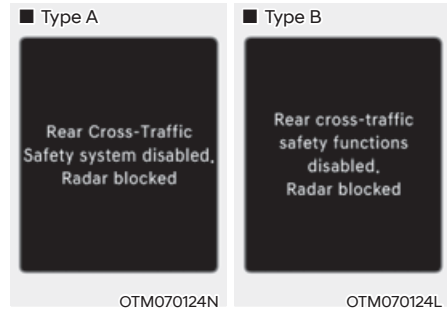


When Rear Cross-Traffic Safety system is not working properly, the 'Check Rear Cross-Traffic Safety system' (or 'Rear cross-traffic safety functions disabled. Radar blocked') warning message will appear on the cluster, and the system will turn off automatically or the system will be limited. We recommend that the function be inspected by an authorized 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. We recommend that the function be inspected by an authorized HYUNDAI dealer.

Rear Cross-Traffic Collision-Avoidance Assist disabled



When the rear bumper around the rear-side radar or sensor is covered with foreign material, such as snow or rain, or installing a trailer or carrier, it can reduce the detecting performance and temporarily limit or disable Rear Cross-Traffic Collision-Avoidance Assist.

If this occurs, the 'Rear Cross-Traffic Safety function disabled. Radar blocked' (or 'Rear cross-traffic safety functions disabled. Radar blocked') warning message will appear on the cluster.

Rear Cross-Traffic Collision-Avoidance Assist will operate normally when such foreign material or trailer, etc. is removed.

If Rear Cross-Traffic Collision-Avoidance Assist does not operate normally after it is removed, we recommend that the function be inspected by an authorized HYUNDAI dealer.

WARNING

- Even though the warning message does not appear on the cluster, Rear Cross-Traffic Collision-Avoidance Assist may not operate properly.
- Rear Cross-Traffic Collision-Avoidance Assist may not operate properly in an area (for example: open terrain), where any substance are not detected after turning ON the engine.

CAUTION

Turn off Rear Cross-Traffic Collision-Avoidance Assist to install a trailer, carrier, etc., or remove the trailer, carrier, etc. to use RRear Cross-Traffic Collision-Avoidance Assist.

Limitations of Rear Cross-Traffic Collision-Avoidance Assist

Rear Cross-Traffic Collision-Avoidance Assist may not operate normally, or the system may operate unexpectedly under the following circumstances:

- Departing from where trees or grass are overgrown
- Departing from where roads are wet
- Speed of the approaching vehicle is fast or slow

Braking control may not work, driver's attention is required in the following circumstances:

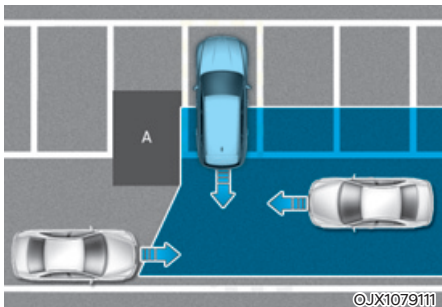
- The vehicle severely vibrates while driving over a bumpy road, uneven road or concrete patch
- Driving on a slippery surface due to snow, water puddle, ice, etc.
- The tire pressure is low or a tire is damaged
- The brake is reworked
- Remote Smart Parking Assist is operating (if equipped)

CAUTION

For more details on the limitations of the rear corner radar, refer to "Blind-Spot Collision-Avoidance Assist (BCA)" section in chapter 7.

WARNING

- Driving near a vehicle or structure

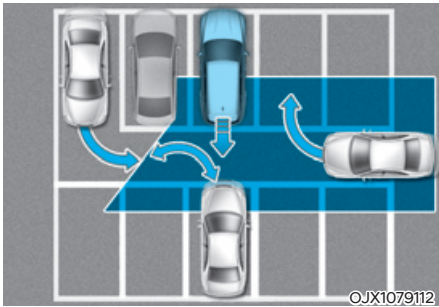


[A] : Structure

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 system may not warn the driver or control the brakes when necessary.

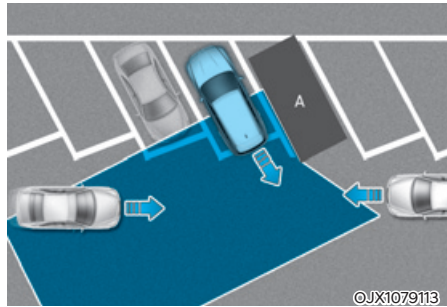
Always check your surroundings while backing up.

- When the vehicle is in a complex parking environment



Rear Cross-Traffic Collision-Avoidance Assist may detect vehicles which are parking or pulling out near your vehicle (for example: a vehicle leaving beside your vehicle, a vehicle parking or pulling out in the rear area, a vehicle approaching your vehicle making a turn, etc.). If this occurs, the system may unnecessarily warn the driver and control the brake. Always check your surroundings while backing up.

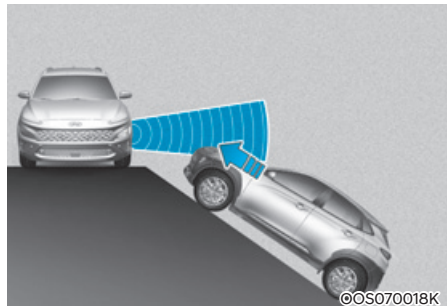
- When the vehicle is parked diagonally



[A] : Vehicle

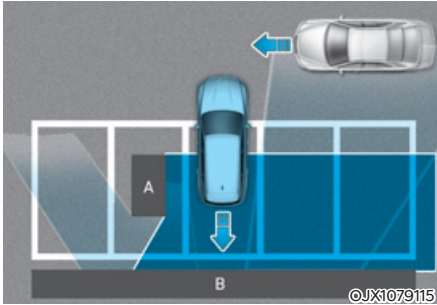
Rear Cross-Traffic Collision-Avoidance Assist may be limited when backing up diagonally, and may not detect the vehicle approaching from the left or right. If this occurs, the system may not warn the driver or control the brakes when necessary. Always check your surroundings while backing up.

- When the vehicle is on or near a slope



Rear Cross-Traffic Collision-Avoidance Assist may be limited when the vehicle is on an uphill or downhill slope, or near it, and may not detect the vehicle approaching from the left or right. If this occurs, the system may not warn the driver or control the brakes when necessary. Always check your surroundings while backing up.

- Pulling into the parking space where there is a structure

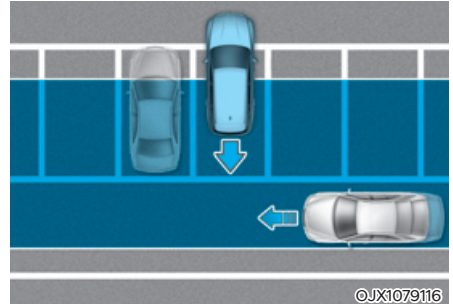


[A] : Structure, [B] :Wall

Rear Cross-Traffic Collision-Avoidance Assist may detect vehicles passing by in front of you when parking in reverse into a parking space with a wall or structure in the rear or side area. If this occurs, the system may unnecessarily warn the driver and control the brake.

Always check your surroundings while backing up.

- When the vehicle is parked rearward



Rear Cross-Traffic Collision-Avoidance Assist may detect vehicles passing by behind you when parking in reverse into a parking space. If this occurs, the system may unnecessarily warn the driver and control the brake.

Always check your surroundings while backing up.

WARNING

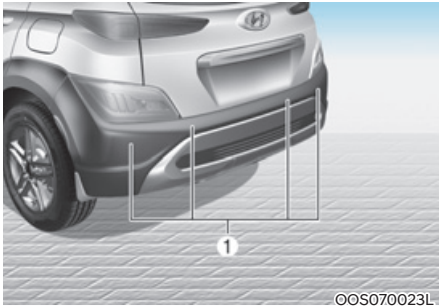
- When you are towing a trailer or another vehicle, we recommend that **Rear Cross-Traffic Collision-Avoidance Assist** is turned off due to safety reasons.
- **Rear Cross-Traffic Collision-Avoidance Assist** may not operate normally if interfered by strong electromagnetic waves.
- **Rear Cross-Traffic Collision-Avoidance Assist** may not operate for 15 seconds after the vehicle is started, or the rear corner radars are initialized.

REVERSE PARKING DISTANCE WARNING (PDW) (IF EQUIPPED)

Setting features

Reverse Parking Distance Warning will help warn the driver if an obstacle is detected within a certain distance when the vehicle is moving in reverse at low speeds.

Detecting sensor (Rear ultrasonic sensors)



[1] : Rear ultrasonic sensors

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

Reverse Parking Distance Warning settings

Warning Volume

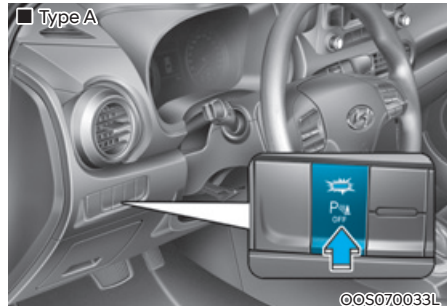
Select 'Driver Assistance → Warning Volume' from the cluster or infotainment system Settings menu to change the Warning Volume to 'High', 'Medium', or 'Low' for Reverse Parking Distance Warning.

However, even if 'Off' is selected, Warning Volume of Reverse Parking Distance Warning will not turn off but the volume will sound as 'Low'.

If you change the Warning Volume, the warning volume of other Driver Assistance systems may change.

Reverse Parking Distance Warning operation

Operating button






Parking Distance Warning OFF button (if equipped)

- Press the Parking Distance Warning OFF (PWA_{OFF}) button to turn off Reverse Parking Distance Warning. Press the button again to turn on the system.
- When Reverse Parking Distance Warning is off (button indicator light on), if you shift the gear to R (Reverse), the system will automatically turn on.
- When Reverse Parking Distance Warning turns on, the button indicator light will turn off. If vehicle speed is above 10 km/h (6 mph), Reverse Parking Distance Warning will turn off (button indicator light on).

Reverse Parking Distance Warning

- Reverse Parking Distance Warning will operate when the gear is in R (Reverse).
- Reverse Parking Distance Warning detects a person, animal or object in the rear when the vehicle's rearward speed is below 10 km/h (6 mph).

Distance from object	Warning indicator when driving backward	Warning sound
60~120 cm (24~48 in.)		Buzzer beeps intermittently
30~60 cm (12~24 in.)		Beeps more frequently
within 30 cm (12 in.)		Beeps continuously

- The corresponding indicator will illuminate whenever each ultrasonic sensor detects a person, animal or object in its sensing range. Also an audible warning will sound.
- When more than two objects are detected at the same time, the closest one will be warned with an audible warning.
- The shape of the indicator in the illustration may differ from the actual vehicle.

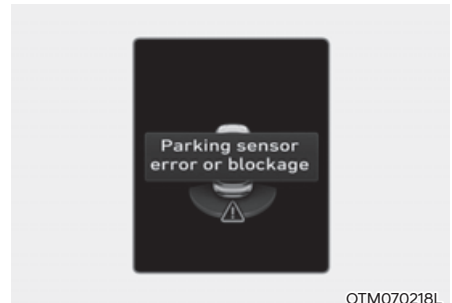
Reverse Parking Distance Warning malfunction and precautions

Reverse Parking Distance Warning malfunction

After starting the engine, a beep will sound when the gear is shifted to R (Reverse) to indicate the system is operating normally.

However, if one or more of the following occurs, first check whether the ultrasonic sensor is damaged or whether the system is in a non operating condition. If it still does not work properly, we recommend that the function be inspected by an authorized HYUNDAI dealer.

- The audible warning does not sound.
- The buzzer sounds intermittently.
- The 'Parking sensor error or blockage' warning message appears on the 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 while parking.**
- **Your new vehicle warranty does not cover any accidents or damage to the vehicle.**
- **Pay close attention when driving near objects, pedestrians, and especially children. Some objects may not be detected by the ultrasonic sensors, due to the objects distance, size or material, all of which can limit the effectiveness of the sensor.**

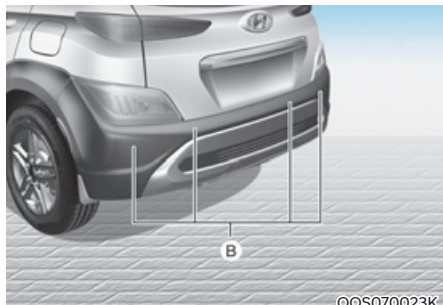
Limitations of Reverse Parking Distance Warning

- Reverse Parking Distance Warning may not operate normally when:
 - Moisture is frozen to the sensor
 - Sensor is covered with foreign material, such as snow or water (The function will operate normally when such foreign material are removed.)
 - The weather is extremely hot or cold
 - The sensor or sensor assembly is disassembled
 - The surface of the sensor is pressed hard or an impact is applied with a hard object
 - The surface of the sensor is scratched with a sharp object
 - The sensors or its surrounding area is directly sprayed with high pressure washer
- Reverse Parking Distance Warning may malfunction when:
 - Heavy rain or water spray is present
 - Water flows on the surface of the sensor
 - Affected by another vehicle's sensors
 - The sensor is covered with snow
 - Driving on uneven road, gravel roads or bushes
 - Objects that generates ultrasonic waves are near the sensor
 - Installing the license plate differently from the original location
 - The vehicle bumper height or ultrasonic sensor installation has been modified
- The following objects may not be detected:
 - Sharp or slim objects, such as ropes, chains or small poles.
 - Objects, which tend to absorb sensor frequency, such as clothes, spongy material or snow.
 - Objects smaller than 100 cm (40 in.) in length and narrower than 14 cm (6 in.) in diameter.
- 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 function be inspected by an authorized HYUNDAI dealer.

FORWARD/REVERSE PARKING DISTANCE WARNING (PDW) (IF EQUIPPED)

Forward/Reverse Parking Distance Warning will help warn the driver if an obstacle is detected within a certain distance when the vehicle is moving forward or in reverse at low speeds.

Detecting sensor



[A] : Front ultrasonic sensors,
[B] : Rear ultrasonic sensors

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

Forward/Reverse Parking Distance Warning settings

Warning Volume

Select 'Driver Assistance → Warning Volume' from the cluster or infotainment system Settings menu to change the Warning Volume to 'High', 'Medium', or 'Low' for Forward/Reverse Parking Distance Warning.

However, even if 'Off' is selected, Warning Volume of Reverse Parking Distance Warning will not turn off but the volume will sound as 'Low'.

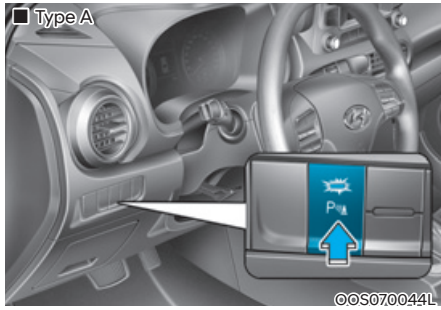
If you change the Warning Volume, the warning volume of other Driver Assistance systems may change.

Parking Distance Warning Auto On

To use Parking Distance Warning Auto On function, select 'Driver Assistance → Parking Safety → Parking Distance Warning Auto On' from the cluster or infotainment system Settings menu.

Forward/Reverse Parking Distance Warning operation

Operating button






Parking Safety button

- Press the Parking Safety (P) 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 30 km/h (18 mph), 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.

Forward Parking Distance Warning

- Forward Parking Distance Warning will operate when one of the condition is satisfied.
 - The gear is shifted from R (Reverse) to D (Drive) with Reverse Parking Distance Warning on
 - The gear is in D (Drive) and the Parking Safety button indicator light is on
 - 'Parking Distance Warning Auto On' is selected from the Settings menu and the gear is in D (Drive)
- Forward Parking Distance Warning detects a person, animal or object in front when the vehicle's forward speed is below 10 km/h (6 mph).
- Forward Parking Distance Warning does not operate when the vehicle's forward speed is above 10 km/h (6 mph) even when the Parking Safety button indicator is on. Forward Parking Distance Warning will operate again when the vehicle's forward speed decreases below 10 km/h (6 mph) while the Parking Safety button indicator is on.
- When 'Parking Distance Warning Auto On' is selected, the Parking Safety button indicator light stays on.




- When 'Parking Distance Warning Auto On' is deselected, and the vehicle's forward speed is above 30 km/h (18 mph), the Parking Safety button indicator will turn off. Although you drive below 10 km/h (6 mph), the system will not turn on.

Distance from object	Warning indicator	Warning sound
	Driving forward	
60~100 cm (24~40 in.)		Buzzer beeps intermittently
30~60 cm (12~24 in.)		Beeps more frequently
within 30 cm (12 in.)		Beeps continuously

- The corresponding indicator will illuminate whenever each ultrasonic sensor detects a person, animal or object in its sensing range. Also an audible warning will sound.
- When more than two objects are detected at the same time, the closest one will be warned with an audible warning.
- The shape of the indicator in the illustration may differ from the actual vehicle.

Reverse Parking Distance Warning

- Reverse Parking Distance Warning will operate when the gear is in R (Reverse).
- Reverse Parking Distance Warning detects a person, animal or object in the rear when the vehicle's rearward speed is below 10 km/h (6 mph).
- When the vehicle's rearward speed is below 10 km/h (6 mph), both the front and rear ultrasonic sensors will detect objects. However, the front ultrasonic sensors can detect a person, animal when it is within 60 cm (24 in.) from the sensors.

Distance from object	Warning indicator	Warning sound
	Driving rearward	
60~120 cm (24~48 in.)		Buzzer beeps intermittently
30~60 cm (12~24 in.)		Beeps more frequently
within 30 cm (12 in.)		Beeps continuously

- The corresponding indicator will illuminate whenever each ultrasonic sensor detects a person, animal or object in its sensing range. Also an audible warning will sound.
- When more than two objects are detected at the same time, the closest one will be warned with an audible warning.
- The shape of the indicator in the illustration may differ from the actual vehicle.

Forward/Reverse Parking Distance Warning malfunction and precautions

Forward/Reverse Parking Distance Warning malfunction

After starting the engine, a beep will sound when the gear is shifted to R (Reverse) to indicate the system is operating normally.

However, if one or more of the following occurs, first check whether the ultrasonic sensor is damaged or whether the system is in a non-operating condition. If it still does not work properly, we recommend that the function be inspected by an authorized HYUNDAI dealer.

- The audible warning does not sound.
- The buzzer sounds intermittently.
- The 'Parking sensor error or blockage' warning message appears on the cluster.



OTM070172L

WARNING

- **Forward/Reverse Parking Distance Warning is a supplemental function. The operation of the function can be affected by several factors (including environmental conditions). It is the responsibility of the driver to always check the front and rear views before and while parking.**
- **Your new vehicle warranty does not cover any accidents or damage to the vehicle.**
- **Pay close attention when driving near objects, pedestrians, and especially children. Some objects may not be detected by the ultrasonic sensors, due to the objects distance, size or material, all of which can limit the effectiveness of the sensor.**

Limitations of Forward/Reverse Parking Distance Warning

- Forward/Reverse Parking Distance Warning may not operate normally when:
 - Moisture is frozen to the sensor
 - Sensor is covered with foreign material, such as snow or water (The system will operate normally when such foreign material are removed.)
 - The weather is extremely hot or cold
 - The sensor or sensor assembly is disassembled
 - The surface of the sensor is pressed hard or an impact is applied with a hard object
 - The surface of the sensor is scratched with a sharp object
 - The sensors or its surrounding area is directly sprayed with high pressure washer
- Forward/Reverse Parking Distance Warning may malfunction when:
 - Heavy rain or water spray is present
 - Water flows on the surface of the sensor
 - Affected by another vehicle's sensors
 - The sensor is covered with snow
 - Driving on uneven road, gravel roads or bushes
 - Objects that generates ultrasonic waves are near the sensor
 - Installing the license plate differently from the original location
 - The vehicle bumper height or ultrasonic sensor installation has been modified
- The following objects may not be detected:
 - Sharp or slim objects, such as ropes, chains or small poles.
 - Objects, which tend to absorb sensor frequency, such as clothes, spongy material or snow.
 - Objects smaller than 100 cm (40 in.) in length and narrower than 14 cm (6 in.) in diameter.
- 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 function be inspected by an authorized HYUNDAI dealer.

DECLARATION OF CONFORMITY (IF EQUIPPED)

Front radar

The radio frequency components (front radar) complies:

- For Europe and CE certified countries

Hereby, Robert Bosch GmbH declares that the radio equipment type MRRevo14F is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address: <http://eu-doc.bosch.com>
Please enter the Model as MRRevo14F to find the correct DoC in the database.

(DE) EU-KONFORMITÄTSEKTLÄRUNG
Hiermit erklärt Robert Bosch GmbH, dass der Funkanlagentyp MRRevo14F der Richtlinie 2014/53/EU entspricht. Der vollständige Text der EU-Konformitätserklärung ist unter der folgenden Internetadresse verfügbar: <http://eu-doc.bosch.com>

OANATEL169

(BG) ЕС ДЕКЛАРАЦИЯ ЗА СЪОТВЕТСТВИЕ
С настоящото Robert Bosch GmbH декларира, че този тип радиосъоръжение MRRevo14F е в съответствие с Директива 2014/53/ЕС. Цялостният текст на ЕС декларацията за съответствие може да се намери на следния интернет адрес: <http://eu-doc.bosch.com>

(HR) EU IZJAVA O SUKLADNOSTI
Robert Bosch GmbH ovime izjavljuje da je radijska oprema tipa MRRevo14F u skladu s Direktivom 2014/53/EU. Cjeloviti tekst EU izjave o sukladnosti dostupan je na sljedećoj internetskoj adresi: <http://eu-doc.bosch.com>

OANATEL170

(EL) ΔΗΛΩΣΗ ΣΥΜΜΟΡΦΩΣΗΣ ΕΕ
Με την παρούσα ο/η Robert Bosch GmbH, δηλώνει ότι ο ραδιοεξοπλισμός MRRevo14F πληροί την οδηγία 2014/53/ΕΕ. Το πλήρες κείμενο της δήλωσης συμμόρφωσης ΕΕ διατίθεται στην ακόλουθη ιστοσελίδα στο διαδίκτυο: <http://eu-doc.bosch.com>

(CS) EU PROHLÁŠENÍ O SHODĚ
Tímto Robert Bosch GmbH prohlašuje, že typ rádiového zařízení MRRevo14F je v souladu se směrnicí 2014/53/EU. Úplné znění EU prohlášení o shodě je k dispozici na této internetové adrese: <http://eu-doc.bosch.com>

OANATEL171

(DA) EU-OVERENSSTEMMELSESEKTLÆRING
Hermed erklærer Robert Bosch GmbH, at radioudstyrstypen MRRevo14F er i overensstemmelse med direktiv 2014/53/EU. EU-overensstemmelseserklæringens fulde tekst kan findes på følgende internetadresse: <http://eu-doc.bosch.com>

(ET) ELI VASTAVUSDEKLARATSIOON
Käesolevaga deklareerib Robert Bosch GmbH, et käesolev raadioseadme tüüp MRRevo14F vastab direktiivi 2014/53/EL nõuetele. ELi vastavusdeklaratsiooni täielik tekst on kättesaadav järgmisel internetiaadressil: <http://eu-doc.bosch.com>

OANATEL172

(FI) EU-
VAATIMUSTENMUKAISUUSVAKU
UTUS

Robert Bosch GmbH vakuuttaa, että radiolaitetyyppi MRRevo14F on direktiivin 2014/53/EU mukainen. EU-vaatimustenmukaisuusvakuutuksen täysimittainen teksti on saatavilla seuraavassa internetosoitteessa: <http://eu-doc.bosch.com>

(FR) DECLARATION UE DE
CONFORMITE

Le soussigné, Robert Bosch GmbH, déclare que l'équipement radioélectrique du type MRRevo14F est conforme à la directive 2014/53/UE. Le texte complet de la déclaration UE de conformité est disponible à l'adresse Internet suivante: <http://eu-doc.bosch.com>

OANATEL173

(HU) EU-MEGFELELŐSÉGI
NYILATKOZAT

Robert Bosch GmbH igazolja, hogy a MRRevo14F típusú rádióberendezés megfelel a 2014/53/EU irányelvnek. Az EU-megfelelőségi nyilatkozat teljes szövege elérhető a következő internetes címen: <http://eu-doc.bosch.com>

(IT) DICHIARAZIONE DI
CONFORMITÀ UE

Il fabbricante, Robert Bosch GmbH, dichiara che il tipo di apparecchiatura radio MRRevo14F è conforme alla direttiva 2014/53/UE. Il testo completo della dichiarazione di conformità UE è disponibile al seguente indirizzo Internet: <http://eu-doc.bosch.com>

OANATEL174

(LV) ES ATBILSTĪBAS
DEKLARĀCIJA

Ar šo Robert Bosch GmbH deklarē, ka radioiekārta MRRevo14F atbilst Direktīvai 2014/53/ES. Pilns ES atbilstības deklarācijas teksts ir pieejams šādā interneta vietnē: <http://eu-doc.bosch.com>

(LT) ES ATITIKTIES DEKLARACIJA

Aš, Robert Bosch GmbH, patvirtinu, kad radijo įrenginių tipas MRRevo14F atitinka Direktyvą 2014/53/ES. Visas ES atitikties deklaracijos tekstas prieinamas šiuo interneto adresu: <http://eu-doc.bosch.com>

OANATEL175

(MT) DIKJARAZZJONI TA' KONFORMITÀ TAL-UE
B'dan, Robert Bosch GmbH, niddikjara li dan it-tip ta' tagħmir tar-radju MRRevo14F huwa konformi mad-Direttiva 2014/53/UE. It-test kollu tad-dikjarazzjoni ta' konformità tal-UE huwa disponibbli f'dan l-indirizz tal-Internet li gej: <http://eu-doc.bosch.com>

(NL) EU-
CONFORMITEITSVERKLARING
Hierbij verklaar ik, Robert Bosch GmbH, dat het type radioapparaat MRRevo14F conform is met Richtlijn 2014/53/EU. De volledige tekst van de EU-conformiteitsverklaring kan worden geraadpleegd op het volgende internetadres: <http://eu-doc.bosch.com>

OANATEL176

(PL) DEKLARACJA ZGODNOŚCI UE
Robert Bosch GmbH niniejszym oświadcza, że typ urządzenia radiowego MRRevo14F jest zgodny z dyrektywą 2014/53/UE. Pełny tekst deklaracji zgodności UE jest dostępny pod następującym adresem internetowym: <http://eu-doc.bosch.com>

(PT) DECLARAÇÃO UE DE CONFORMIDADE
O(a) abaixo assinado(a) Robert Bosch GmbH declara que o presente tipo de equipamento de rádio MRRevo14F está em conformidade com a Diretiva 2014/53/UE. O texto integral da declaração de conformidade está disponível no seguinte endereço de Internet: <http://eu-doc.bosch.com>

OANATEL178

(SL) IZJAVA EU O SKLADNOSTI
Robert Bosch GmbH potrjuje, da je tip radijske opreme MRRevo14F skladen z Direktivo 2014/53/EU. Celotno besedilo izjave EU o skladnosti je na voljo na naslednjem spletnem naslovu: <http://eu-doc.bosch.com>

(ES) DECLARACIÓN UE DE CONFORMIDAD
Por la presente, Robert Bosch GmbH declara que el tipo de equipo radioeléctrico MRRevo14F es conforme con la Directiva 2014/53/UE. El texto completo de la declaración UE de conformidad está disponible en la dirección Internet siguiente: <http://eu-doc.bosch.com>

OANATEL179

(RO) DECLARAȚIA UE DE CONFORMITATE
Prin prezenta, Robert Bosch GmbH declară că tipul de echipamente radio MRRevo14F este în conformitate cu Directiva 2014/53/UE. Textul integral al declarației UE de conformitate este disponibil la următoarea adresă internet: <http://eu-doc.bosch.com>

(SK) EÚ VYHLÁSENIE O ZHODE
Robert Bosch GmbH týmto vyhlasuje, že rádiové zariadenie typu MRRevo14F je v súlade so smernicou 2014/53/EÚ. Úplné EÚ vyhlásenie o zhode je k dispozícii na tejto internetovej adrese: <http://eu-doc.bosch.com>

OANATEL178

(SL) IZJAVA EU O SKLADNOSTI
Robert Bosch GmbH potrjuje, da je tip radijske opreme MRRevo14F skladen z Direktivo 2014/53/EU. Celotno besedilo izjave EU o skladnosti je na voljo na naslednjem spletnem naslovu: <http://eu-doc.bosch.com>

(ES) DECLARACIÓN UE DE CONFORMIDAD
Por la presente, Robert Bosch GmbH declara que el tipo de equipo radioeléctrico MRRevo14F es conforme con la Directiva 2014/53/UE. El texto completo de la declaración UE de conformidad está disponible en la dirección Internet siguiente: <http://eu-doc.bosch.com>

OANATEL180

(SV) EU-FÖRSÄKRAN OM ÖVERENSSTÄMMELSE
Härmed försäkras Robert Bosch GmbH att denna typ av radioutrustning MRRevo14F överensstämmer med direktiv 2014/53/EU. Den fullständiga texten till EU-försäkran om överensstämmelse finns på följande webbadress: <http://eu-doc.bosch.com>

OANATEL181

■ For Taiwan

Model: MRRevo14F
No. CCAE15LP0180T0
The manual should contain the following Homologation mark and text:



The manual should contain below warning (for RF device) in traditional Chinese:
注意!

依據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。

OANATEL191

■ For Malaysia

Model: MRRevo14F
No. CIDF15000490
The manual should contain the following Homologation mark:



OANATEL200

■ For Singapore

Model: MRRevo14F
No. N0147-19
The manual should contain the following Homologation mark:

Complies with
IMDA Standards
DXXXXXXX

OANATEL201

■ For Brazil

Model: MRRevo14F
No. 02220-14-03745
The manual should contain the following Homologation mark and text:



Este equipamento opera em caráter secundário, isto é, não tem direito a proteção contra interferência prejudicial, mesmo de estações do mesmo tipo, e não pode causar interferência a sistemas operando em caráter primário.

OANATEL192

■ For Mexico

Model: MRRevo14F
IFETEL: RCPBOMR14-0766
The manual should contain the following Homologation mark and text:

IFETEL: RCPBOMR14-0766

La operación de este equipo está sujeta a las siguientes dos condiciones:
(1) es posible que este equipo o dispositivo no cause interferencia perjudicial y
(2) este equipo o dispositivo debe aceptar cualquier interferencia, incluyendo la que pueda causar su operación no deseada.

OANATEL198

■ For Paraguay

Model: MRRevo14F
No. 2019-05-I-000237
The manual should contain the following
homologation mark:



OANATEL207

■ For Moldova

Model: MRRevo14F
No. MD OC TIP 024 A5958-17
The manual should contain the following
Homologation mark:



OANATEL193

■ For Ukraina

Model: MRRevo14F
Certificate: UA.TR.109.R.0029-19
NKRZI: 1BOSC0007

The manual should contain the following
Homologation mark:



OANATEL194

■ For UAE

Model: MRRevo14F
TRA Registered No: ER39135/15
Dealer No: DA36758/14
The manual should contain the following
Homologation mark:



OANATEL189

■ For Argentina

Model: MRRevo14F
No. C-21797
The manual should contain the following
Homologation mark:



The Type Approval number (C-21797) may be
printed either next to the Homologation
Mark or below it.

OANATEL204

■ For Japan

Model: MRRevo14F
 No. 202-LSC039
 The manual should contain the following text:
 当該機器には電波法に基づく、技術基準適合証明等を受けた特定無線設備を装着している。
 本無線機器の改造を禁ずる（これに反した場合は当該認証登録番号は無効となる）

OANATEL186

■ For Jordan

Model: MRRevo14F
 No. TRC/LPD/2014/125
 The manual should contain the following Homologation mark:

TRC No. TRC/LPD/2014/125

OANATEL199

■ For Republic of South Africa

Model: MRRevo14F
 No. TA-2013/2465
 The manual should contain the following Homologation mark:



OANATEL190

■ For Thailand

Model: MRRevo14F
 No. A57004-14
 The manual should contain the following Homologation mark and text:



This telecommunication equipment "BOSCH Radar Sensor MRRevo14F" conforms to technical standard NTC TS 1011-2549.

This telecommunication equipment "BOSCH Radar Sensor MRRevo14F" has EMF radiation and conforms to NTC exposure standard NTC TS 5001-2550.

This equipment "BOSCH Radar Sensor MRRevo14F" is operating more than 20cm away from human body in normal operating condition.

OANATEL203

■ For Russia

Model: MRRevo14F
 No. EA3C N RU Д-DE.PA01.B.26727/19
 The manual should contain the following Homologation mark:



OANATEL206

■ For China

Model: MRRevo14F
 No. 2014-4306
 The manual should contain the following Homologation mark:

CMIIT ID: 2014DJ4306

OANATEL205

■ For Hongkong

Model: MRRevo14F
No. n/a
The manual should contain the following text:
HKCA 1035: automotive radar: radio
equipment exempted from licensing!

OANATEL188

■ For Serbia

Model: MRRevo14F
No. 34540-317/17-3
The manual should contain the following
Homologation mark:



OANATEL195

■ For Morocco

Model: MRRevo14F
No. MR 9126 ANRT 2014
The manual should contain the following
Homologation mark:

AGREE PAR L'ANRT MAROC

Numéro d'agrément : MR 9126 ANRT 2014

Date d'agrément : 26/03/2014

OANATEL196

■ For Philippines

Model: MRRevo14F
No. ESD-1408747C
The manual should contain the following
Homologation mark:



OANATEL197

Rear corner radar

The radio frequency components (Rear Corner Radar) complies:

■ 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

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

OOS070034L

■ 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.

OANATELO05

■ For Indonesia

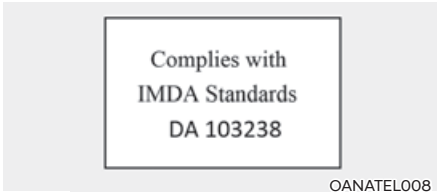
54473/SDPPI/2018
6051

OANATELO06

■ For Malaysia



■ For Singapore



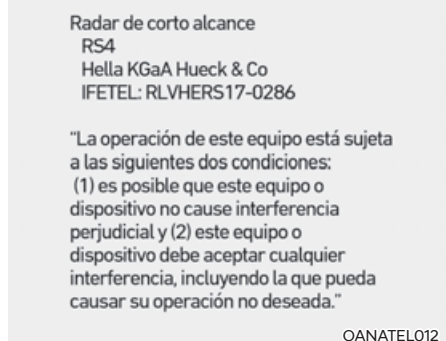
■ For Vietnam



■ For Brazil



■ For Mexico



■ For Japan



■ For Ukraine



■ For Jordan

TRC No. TRC/LPD/2017/63

OANATEL014

■ For Ghana

NCA Approved: 1R3-1M-7E1-0B7

OANATEL018

■ For Oman

OMAN - TRA
TRA/TA-R/3957/17
D080134

OANATEL015

■ For Zambia

 **ZICTA**
ZMB/ZICTA/TA/2017/6/7

OANATEL019

■ For UAE

TRA
Registered No:
ER53878/17
Dealer No:
DA44932/15

OANATEL016

■ For Jamaica

This product contains a Type Approved Module
by Jamaica: SMA – "RS4"

OANATEL020

■ For Botswana

BTA
REGISTERED No :
BOCRA/TA/2018/3372

OANATEL017

■ For Paraguay

PARAGUAY

CONATEL
NR:2017-07-1-0000220

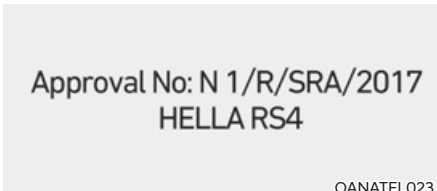
OANATEL021

■ For Uzbekistan



OANATEL022

■ For Mozambique



OANATEL023

■ For Thailand



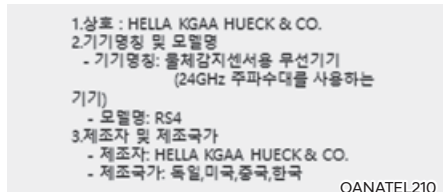
OANATEL208

■ For Israel



OANATEL209

■ For South Korea



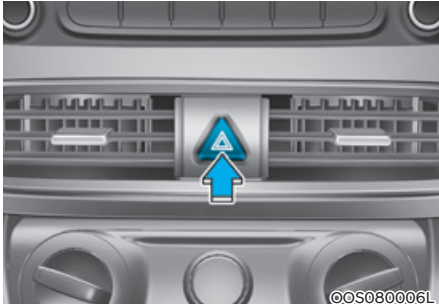
OANATEL210

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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 center fascia panel. All turn signal lights will flash simultaneously.

- The hazard warning flasher operates whether your vehicle is running or not.
- The turn signals do not work when the hazard flasher is on.

IN CASE OF AN EMERGENCY WHILE DRIVING

If the engine stalls while driving

- Reduce your speed gradually, keeping a straight line. Move cautiously off the road to a safe place.
- Turn on your hazard warning flasher.
- Try to start the engine again. If your vehicle will not start, we recommend that you contact an authorized HYUNDAI dealer.

If the engine stalls at a crossroad 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 tire while driving

If a tire goes flat while you are driving:

- Take your foot off the accelerator pedal and let the vehicle slow down while driving straight ahead. Do not apply the brakes immediately or attempt to pull off the road as this may cause loss of vehicle control resulting in an accident. When the vehicle has slowed to such a speed that it is safe to do so, brake carefully and pull off the road. Drive off the road as far as possible and park on firm, level ground. If you are on a divided highway, do not park in the median area between the two traffic lanes.
- When the vehicle is stopped, press the hazard warning flasher button, move the shift lever into P (Park, 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 tire, 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 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 an authorized HYUNDAI dealer 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.



Hydrogen is always present in battery cells, is highly combustible, and may explode if ignited.



Keep batteries out of reach of children.



Batteries contain sulfuric acid which is highly corrosive. Do not allow acid to contact your eyes, skin or clothing.

If acid gets into your eyes, flush your eyes with clean water for at least 15 minutes and get immediate medical attention. If acid gets on your skin, thoroughly wash the area. If you feel pain or a burning sensation, get medical attention immediately.

- When lifting a plastic-cased battery, excessive pressure on the case may cause battery acid to leak. Lift with a battery carrier or with your hands on opposite corners.
- Do not attempt to jump start your vehicle if your battery is frozen.
- NEVER attempt to recharge the battery when the vehicle's battery cables are connected to the battery.
- The electrical ignition system works with high voltage. NEVER touch these components with the 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

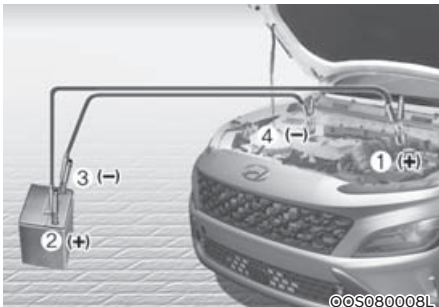


Pb

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 servicing. In this event please seek qualified assistance. If the cause of your battery discharging is not apparent, we recommend that you have your vehicle checked by an authorized HYUNDAI dealer.

Disconnect the jumper cables in the exact reverse order you connected them:

1. Disconnect the jumper cable from the black, negative (-) chassis ground of your vehicle (4).
2. Disconnect the other end of the jumper cable from the black, negative (-) battery/chassis ground of the assisting vehicle (3).
3. Disconnect the second jumper cable from the red, positive (+) battery/ jumper terminal of the assisting vehicle (2).
4. Disconnect the other end of the jumper cable from the red, positive (+) jumper terminal of your vehicle (1).

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/dual clutch transmission vehicle) 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 hood, stop the engine. Do not open the hood 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



While 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 an authorized HYUNDAI dealer for assistance.

WARNING



NEVER remove the radiator cap or the drain plug while the engine and radiator are hot. Hot coolant and steam may blow out under pressure, causing serious injury.

Turn the 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 while the pressure is released from the cooling system. When you are sure all the pressure has been released, press down on the cap, using a thick towel, and continue turning counterclockwise to remove it.

6. 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.
7. Proceed with caution, keeping alert for further signs of overheating. If overheating happens again, we recommend that you call an authorized HYUNDAI dealer for assistance.

CAUTION

- **Serious loss of coolant indicates a leak in the cooling system and we recommend the system be checked by an authorized HYUNDAI dealer.**
- **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.**

TIRE PRESSURE MONITORING SYSTEM (TPMS, IF EQUIPPED) (TYPE A)



(1) Low tire pressure telltale /
TPMS malfunction indicator

Each tire, including the spare (if provided), should be checked monthly when cold and inflated to the inflation pressure recommended by the vehicle manufacturer on the vehicle placard or tire inflation pressure label. (If your vehicle has tires of a different size than the size indicated on the vehicle placard or tire inflation pressure label, you should determine the proper tire inflation pressure for those tires.)

As an added safety feature, your vehicle has been equipped with a tire pressure monitoring system (TPMS) that illuminates a low tire pressure telltale when one or more of your tires is significantly under-inflated. Accordingly, when the low tire pressure telltale illuminates, you should stop and check your tires as soon as possible, and inflate them to the proper pressure. Driving on a significantly under-inflated tire causes the tire to overheat and can lead to tire failure. Under-inflation also reduces fuel efficiency and tire tread life, and may affect the vehicle's handling and stopping ability.

Please note that the TPMS is not a substitute for proper tire maintenance, and it is the driver's responsibility to maintain correct tire pressure, even if under-inflation has not reached the level to trigger illumination of the TPMS low tire pressure telltale.

Your vehicle has also been equipped with a TPMS malfunction indicator to indicate when the system is not operating properly. The TPMS malfunction indicator is combined with the low tire pressure telltale. When the system detects a malfunction, the telltale will flash for approximately one minute and then remain continuously illuminated.

This sequence will continue upon subsequent vehicle start-ups as long as the malfunction exists. When the malfunction indicator is illuminated, the system may not be able to detect or signal low tire pressure as intended. TPMS malfunctions may occur for a variety of reasons, including the installation of replacement or alternate tires or wheels on the vehicle that prevent the TPMS from functioning properly. Always check the TPMS malfunction telltale after replacing one or more tires or wheels on your vehicle to ensure that the replacement or alternate tires and wheels allow the TPMS to continue to function properly.

NOTICE

If the TPMS indicator does not illuminate for 3 seconds when the ignition switch is turned to the ON position or engine is running, or if it comes on after blinking for approximately one minute, we recommend that you contact an authorized HYUNDAI dealer.



Low tire pressure telltale

When the tire pressure monitoring system warning indicator is illuminated and warning message displayed on the cluster LCD display, one or more of your tires is significantly under-inflated.

If the telltale illuminates, immediately reduce your speed, avoid hard cornering and anticipate increased stopping distances. You should stop and check your tires as soon as possible. Inflate the tires to the proper pressure as indicated on the vehicle's placard or tire inflation pressure label located on the driver's side center pillar outer panel. If you cannot reach a service station or if the tire cannot hold the newly added air, replace the low pressure tire with the spare tire.

Then the Low Tire Pressure telltale may flash for approximately one minute and then remain continuously illuminated after restarting and about 10 minutes of continuous driving before you have the low pressure tire repaired and replaced on the vehicle.



CAUTION

In winter or cold weather, the low tire pressure telltale may be illuminated if the tire pressure was adjusted to the recommended tire inflation pressure in warm weather. It does not mean your TPMS is malfunctioning because the decreased temperature leads to a proportional lowering of tire pressure.

When you drive your vehicle from a warm area to a cold area or from a cold area to a warm area, or the outside temperature is greatly higher or lower, you should check the tire inflation pressure and adjust the tires to the recommended tire inflation pressure.



WARNING

Low pressure damage

Significantly low tire pressure makes the vehicle unstable and can contribute to loss of vehicle control and increased braking distances.

Continued driving on low pressure tires can cause the tires to overheat and fail.



TPMS (Tire Pressure Monitoring System) malfunction indicator

The TPMS malfunction indicator will illuminate after it blinks for approximately one minute when there is a problem with the Tire Pressure Monitoring System. If the system is able to correctly detect an under inflation warning at the same time as system failure then it will illuminate the TPMS malfunction indicator.

We recommend that the system be checked by an authorized HYUNDAI dealer.



CAUTION

- The TPMS malfunction indicator may be 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 Tire Pressure Monitoring System (TPMS).
- The TPMS malfunction indicator may illuminate if snow chains or some separately purchased devices such as notebook computers, mobile charger, remote starter, navigation etc. are used in the vehicle. This can interfere with normal operation of the Tire Pressure Monitoring System (TPMS).

Changing a tire with TPMS

If you have a flat tire, the Low Tire Pressure will come on. We recommend that the flat tire be checked by an authorized HYUNDAI dealer.



CAUTION

It is recommended that you do not use a puncture-repairing agent not approved by HYUNDAI dealer or the equivalent specified for your vehicle to repair and/or inflate a low pressure tire. Tire sealant not approved by HYUNDAI dealer or the equivalent specified for your vehicle may damage the tire pressure sensor.

Each wheel is equipped with a tire pressure sensor mounted inside the tire behind the valve stem. You must use TPMS specific wheels. It is recommended that you have your tires serviced by an authorized HYUNDAI dealer.

Even if you replace the low pressure tire with the spare tire, the Low Tire Pressure Telltale will blink or remain on until the low pressure tire is repaired and placed on the vehicle.

After you replace the low pressure tire with the spare tire, the Low Tire Pressure Telltale may blink or illuminate after a few minutes because the TPMS sensor mounted on the spare wheel is not initiated.

Once the low pressure tire is reinflated to the recommended pressure and installed on the vehicle or we recommend that the TPMS sensor mounted on the replaced spare wheel be initiated by an authorized HYUNDAI dealer, the TPMS malfunction indicator and the low tire pressure telltale will extinguish within a few minutes of driving.

If the indicator is not extinguished after a few minutes of driving, We recommend that the system be checked by an authorized HYUNDAI dealer.



CAUTION

If original mounted tire is replaced with the spare tire, the TPMS sensor on the replaced spare wheel should be initiated and we recommend that the TPMS sensor on the original mounted wheel be deactivated by a HYUNDAI dealer.

If the TPMS sensor on the original mounted wheel located in the spare tire carrier still activates, the tire pressure monitoring system may not operate properly. We recommend that the system be serviced by an authorized HYUNDAI dealer.

You may not be able to identify a low tire by simply looking at it. Always use a good quality tire pressure gauge to measure the tire's inflation pressure. Please note that a tire that is hot (from being driven) will have a higher pressure measurement than a tire that is cold.

A cold tire means the vehicle has been sitting for 3 hours and driven for less than 1 mile (1.6 km) in that 3 hour period.

Allow the tire to cool before measuring the inflation pressure. Always be sure the tire is cold before inflating to the recommended pressure.

**CAUTION**

We recommend that you use the sealant approved by HYUNDAI if your vehicle is equipped with a Tire Pressure Monitoring System. The liquid sealant can damage the tire pressure sensors.

**WARNING****TPMS**

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

**WARNING****Protecting TPMS**

Tampering with, modifying, or disabling the Tire Pressure Monitoring System (TPMS) components may interfere with the system's ability to warn the driver of low tire pressure conditions and/or TPMS malfunctions. Tampering with, modifying, or disabling the Tire Pressure Monitoring System (TPMS) components may void the warranty for that portion of the vehicle.

**WARNING****For EUROPE**

- Do not modify the vehicle, it may interfere with the TPMS function.
- The wheels on the market do not have a TPMS sensor.
For your safety, we recommend that you use parts for replacement from an authorized HYUNDAI dealer.
- If you use the wheels on the market, use a TPMS sensor approved by a HYUNDAI dealer or the equivalent approved for your vehicle. If your vehicle is not equipped with a TPMS sensor or TPMS does not work properly, you may fail the periodic vehicle inspection conducted in your country.
- * 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)

TIRE PRESSURE MONITORING SYSTEM (TPMS) (IF EQUIPPED) (TYPE B)



- (1) Low Tire Pressure Telltale/TPMS Malfunction Indicator
- (2) Low tire pressure position telltale and tire pressure telltale (Shown on the LCD display)

Check tire pressure



- You can check the tire pressure in the Assist mode on the cluster.
Refer to the “LCD Display Modes” in chapter 4.
- Tire pressure is displayed after a few minutes of driving after initial engine start up.
- If tire pressure is not displayed when the vehicle is stopped, “Drive to display” message will appear. After driving, check the tire pressure.
- The displayed tire pressure values may differ from those measured with a tire pressure gauge.
- You can change the tire pressure unit in the User Settings mode on the instrument cluster.
- psi, kpa, bar (**Refer to “LCD Modes” in chapter 4.**)

Tire pressure monitoring system



WARNING

Over-inflation or under-inflation can reduce tire life, adversely affect vehicle handling, and lead to sudden tire failure that may cause loss of vehicle control resulting in an accident.

Each tire, including the spare (if provided), should be checked monthly when cold and inflated to the inflation pressure recommended by the vehicle manufacturer on the vehicle placard or tire inflation pressure label. (If your vehicle has tires of a different size than the size indicated on the vehicle placard or tire inflation pressure label, you should determine the proper tire inflation pressure for those tires.)

As an added safety feature, your vehicle has been equipped with a tire pressure monitoring system (TPMS) that illuminates a low tire pressure telltale when one or more of your tires is significantly under-inflated. Accordingly, when the low tire pressure telltale illuminates, you should stop and check your tires as soon as possible, and inflate them to the proper pressure. Driving on a significantly under-inflated tire causes the tire to overheat and can lead to tire failure. Under-inflation also reduces fuel efficiency and tire tread life, and may affect the vehicle's handling and stopping ability.

Please note that the TPMS is not a substitute for proper tire maintenance, and it is the driver's responsibility to maintain correct tire pressure, even if under-inflation has not reached the level to trigger illumination of the TPMS low tire pressure telltale.

Your vehicle has also been equipped with a TPMS malfunction indicator to indicate when the system is not operating properly. The TPMS malfunction indicator is combined with the low tire pressure telltale. When the system detects a malfunction, the telltale will flash for approximately one minute and then remain continuously illuminated. This sequence will continue upon subsequent vehicle start-ups as long as the malfunction exists. When the malfunction indicator is illuminated, the system may not be able to detect or signal low tire pressure as intended.

TPMS malfunctions may occur for a variety of reasons, including the installation of replacement or alternate tires or wheels on the vehicle that prevent the TPMS from functioning properly. Always check the TPMS malfunction telltale after replacing one or more tires or wheels on your vehicle to ensure that the replacement or alternate tires and wheels allow the TPMS to continue to function properly.

NOTICE

If any of the below happens, we recommend that the system be checked by an authorized HYUNDAI dealer.

1. **The low tire pressure telltale/TPMS malfunction indicator does not illuminate for 3 seconds when the ignition switch is 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 tire pressure position telltale remains illuminated.**



Low tire pressure telltale



OOS047115L

Low tire pressure position telltale and tire pressure telltale

When the tire pressure monitoring system warning indicators are illuminated and a warning message displayed on the cluster LCD display, one or more of your tires is significantly under-inflated. The low tire pressure position telltale light will indicate which tire is significantly under-inflated by illuminating the corresponding position light.

If either telltale illuminates, immediately reduce your speed, avoid hard cornering and anticipate increased stopping distances. You should stop and check your tires as soon as possible. Inflate the tires to the proper pressure as indicated on the vehicle's placard or tire inflation pressure label located on the driver's side center pillar outer panel. If you cannot reach a service station or if the tire cannot hold the newly added air, replace the low pressure tire with a spare tire.

If you drive the vehicle for about 10 minutes at speeds above 25 km/h after replacing the low pressure tire with the spare tire, the following 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 tire is not equipped with a tire pressure sensor.



CAUTION

In winter or cold weather, the low tire pressure telltale may illuminate if the tire pressure was adjusted to the recommended tire inflation pressure in warm weather. It does not mean your TPMS is malfunctioning because the decreased temperature leads to a lowering of tire pressure.

When you drive your vehicle from a warm area to a cold area or from a cold area to a warm area, or the outside temperature is higher or lower, you should check the tire inflation pressure and adjust the tires to the recommended tire inflation pressure.



WARNING

Low pressure damage

Significantly low tire pressure makes the vehicle unstable and can contribute to loss of vehicle control and increased braking distances.

Continued driving on low pressure tires can cause the tires to overheat and fail.



TPMS (Tire Pressure Monitoring System) malfunction indicator

The TPMS malfunction indicator will illuminate after it blinks for approximately one minute when there is a problem with the Tire Pressure Monitoring System.

We recommend that you have the system checked by an authorized HYUNDAI dealer as soon as possible.

NOTICE

If there is a malfunction with the TPMS, the low tire pressure position telltale will not be displayed even though the vehicle has an under-inflated tire.



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 Tire 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 Tire Pressure Monitoring System (TPMS).

- **After you repair a flat tire with a tire sealant, we recommend that the tire be inspected and serviced by an authorized HYUNDAI dealer in order to prevent damage to the tire pressure sensor.**

Changing a tire with TPMS

If you have a flat tire, the low Tire Pressure and Position telltales will come on.

We recommend that you have the flat tire repaired by an authorized HYUNDAI dealer as soon as possible or replace the flat tire with the spare tire.



CAUTION

It is recommended that you do not use a puncture-repairing agent not approved by HYUNDAI dealer or the equivalent specified for your vehicle to repair and/or inflate a low pressure tire. Tire sealant not approved by HYUNDAI dealer or the equivalent specified for your vehicle may damage the tire pressure sensor.

Each wheel is equipped with a tire pressure sensor mounted inside the tire behind the valve stem. You must use TPMS specific wheels. It is recommended that you have your tires serviced by an authorized HYUNDAI dealer.

If you drive the vehicle for about 10 minutes at speeds above 25 km/h after replacing the low pressure tire with the spare tire, the following 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.

- The wheels of spare tires are not equipped with tire pressure sensors. When replacing the disabled tire with a spare tire due to such problems including tire puncture or low pressure, the TPMS malfunction indicator may blink or illuminate. It is recommended that the tire be serviced by an authorized HYUNDAI dealer and replace it with the original tire wheel equipped with a tire pressure sensor.

You may not be able identify a tire with low pressure by simply looking at it. Always use a good quality tire pressure gauge to measure the tire's inflation pressure. Please note that a tire that is hot (from being driven) will have a higher pressure measurement than a tire that is cold (from sitting stationary for at least 3 hour and driven less than 1.6 km (1 mile) during that 3 hour period).

Allow the tire to cool before measuring the inflation pressure. Always be sure the tire is cold before inflating to the recommended pressure.

A cold tire means the vehicle has been sitting for 3 hours and driven for less than 1.6 km (1 mile) in that 3 hour period.



WARNING

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



WARNING

Tampering with, modifying, or disabling the Tire Pressure Monitoring System (TPMS) components may interfere with the system's ability to warn the driver of low tire pressure conditions and/or TPMS malfunctions. Tampering with, modifying, or disabling the Tire Pressure Monitoring System (TPMS) components may void the warranty for that portion of the vehicle.



WARNING

For EUROPE

- **Do not modify the vehicle; it may interfere with the TPMS function.**
- **The wheels on the market do not have a TPMS sensor.**
- **For your safety, we recommend that you use parts for replacement from an authorized HYUNDAI dealer.**
- **If you use the wheels on the market, use a TPMS sensor approved by a HYUNDAI dealer or the equivalent approved for your vehicle. If your vehicle is not equipped with a TPMS sensor or TPMS does not work properly, you may fail the periodic vehicle inspection conducted in your country.**
- * **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 TIRE (WITH SPARE TIRE, IF EQUIPPED)

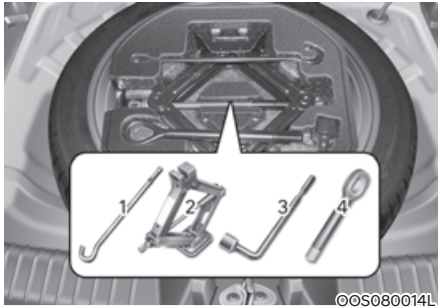
WARNING

Changing a tire can be dangerous. Follow the instructions in this section when changing a tire 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
- (4) Towing hook

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 tire changing only.



Turn the winged hold down bolt counterclockwise to remove the spare tire.

Store the spare tire in the same compartment by turning the winged hold down bolt clockwise.

To prevent the spare tire and tools from “rattling”, store them in their proper location.



If it is hard to loosen the tire hold-down wing bolt by hand, you can loosen it easily using the wheel nut wrench.

Turn the tire hold-down wing bolt counterclockwise with the wheel nut wrench.

Changing tires



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 tire 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 tire. 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.
- 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 while the vehicle is on the jack.
- Do not allow anyone to remain in the vehicle while it is on the jack.
- Keep children away from the road and the vehicle.

Follow these steps to change your vehicle's tire:

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 tire from the vehicle.

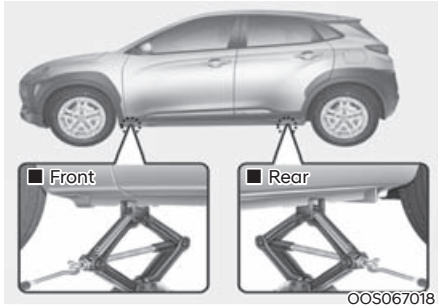


[A] : Block

5. Block both the front and rear of the tire diagonally opposite of the tire you are changing.



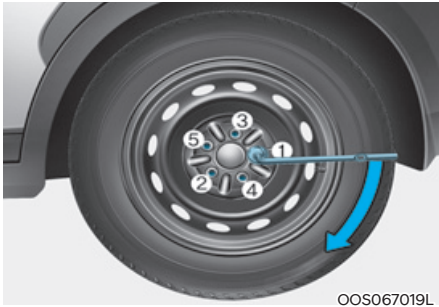
6. Loosen the wheel lug nuts counterclockwise one turn each in the order shown above, but do not remove any lug nuts until the tire has been raised off of the ground.



7. Place the jack at the designated jacking position under the frame closest to the tire 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 tire 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 tire 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.



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 tires, we recommend that an authorized HYUNDAI dealer 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 tire gauge, check the tire pressure (see “Tires and Wheels” in chapter 2 for tire 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 tire pressure. If the cap is not replaced, air may leak from the tire. If you lose a valve cap, buy another and install it as soon as possible. After changing tires, put the flat tire in its place and return the jack and tools to their proper storage locations.

NOTICE

- Check the tire pressure as soon as possible after installing a spare tire. Adjust it to the recommended pressure.
- Check and tighten the wheel lug nuts after driving over 50 km if tires are replaced. Re-check the tire wheel lug nuts after driving over 1,000 km.



CAUTION

Your vehicle has metric threads on the studs and lug nuts. Make certain during tire 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 an authorized HYUNDAI dealer 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 tire and call for assistance.

Use of compact spare tires (if equipped)

Compact spare tires are designed for emergency use only. Drive carefully on the compact spare tire and always follow the safety precautions.

**WARNING**

To prevent compact spare tire failure and loss of control possibly resulting in an accident:

- Use the compact spare tire only in an emergency.
- **NEVER** operate your vehicle over 80 km/h (50 mph).
- Do not exceed the vehicle's maximum load rating or the load carrying capacity shown on the sidewall of the compact spare tire.
- Do not use the compact spare tire continuously. Repair or replace the original tire as soon as possible to avoid failure of the compact spare tire.

When driving with the compact spare tire mounted to your vehicle:

- Check the tire pressure after installing the compact spare tire. The compact spare tire should be inflated to 420 kPa (60 psi).
- Do not take this vehicle through an automatic car wash while the compact spare tire is installed.
- Do not use the compact spare tire on any other vehicle because this tire has been designed especially for your vehicle.
- The compact spare tire's tread life is shorter than a regular tire. Inspect your compact spare tire regularly and replace worn compact spare tires with the same size and design, mounted on the same wheel.
- Do not use more than one compact spare tire at a time.
- Do not tow a trailer while the compact spare tire is installed.

NOTICE

When the original tire 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).

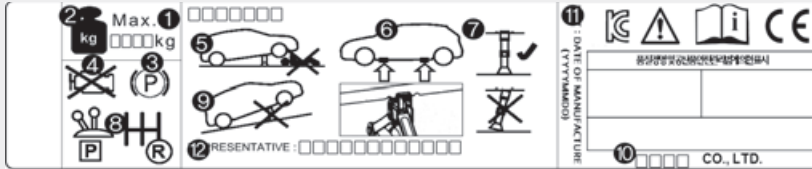
**CAUTION**

To prevent damaging the compact spare tire 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 tire diameter is smaller than the diameter of a conventional tire and reduces the ground clearance approximately 25 mm (1 inch).
- Do not use tire chains on the compact spare tire. Because of the smaller size, a tire chain will not fit properly.
- Do not use the compact spare tire on any other wheels, nor should standard tires, snow tires, wheel covers or trim rings be used with the compact spare wheel.

Jack label

■ Example



OOS067043

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 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



EC Declaration of Conformity according to EC Machinery Directive 2006/42/EC

We, **SAMKI IND. CO., LTD.**

22, Hyojuk3-Gil, Buk-Gu, Ulsan, Korea

declare under our sole responsibility that the product

Product : Jack Assembly

Type Designation(s) : Jack Assembly-600kg, Jack Assembly-700kg
Jack Assembly-800kg, Jack Assembly-1000kg
Jack Assembly-1200kg, Jack Assembly-1500kg

Serial No. : N/A


Year of Manufacture : 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 ISO12100-2/A1 (2009)	Safety of machinery - Basic concepts, general principles for design, Part 2 : Technical principles
EN 1494/A1 (2008)	Mobile or movable jacks and associated lifting equipment

following the provisions of Directive(s):

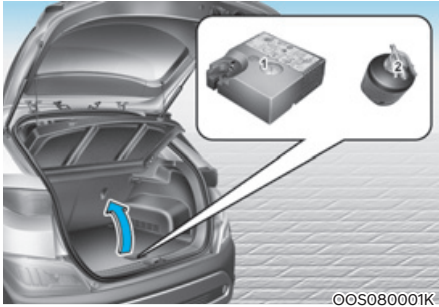
2006/42/EC	Directive on the approximation of the laws of Member States relating to machinery (OJ L157 Jun, 9, 2006)
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Ulsan , Korea / Jul 25 2013 Hyun Duck, Cho President 
(Place and date of issue)(name and signature or equivalent making of authorized person)

* T.C.F Compiling Person: Safenet Limited (European Notified body : 1674)
Denford Garage, Denford, Kettering Northants, NN14 4EQ, England

JACKDOC14S

IF YOU HAVE A FLAT TIRE (WITH TIRE MOBILITY KIT, IF EQUIPPED)



For safe operation, carefully read and follow the instructions in this manual before use.

- (1) Compressor
- (2) Sealant bottle

The Tire Mobility Kit is a temporary fix to the tire and we recommend that the system be inspected by an authorized HYUNDAI dealer.

CAUTION

When two or more tires are flat, do not use the tire mobility kit because the supported one sealant of Tire Mobility Kit is only used for one flat tire.

WARNING

Do not use the Tire Mobility Kit to repair punctures in the tire walls. This can result in an accident due to tire failure.

WARNING

Have your tire repaired as soon as possible. The tire may lose air pressure at any time after inflating with the Tire Mobility Kit.

Introduction

With the Tire Mobility Kit you stay mobile even after experiencing a tire puncture.

The system of compressor and sealing compound effectively and comfortably seals most punctures in a passenger car tire caused by nails or similar objects and reinflates the tire.

After you ensured that the tire is properly sealed you can drive cautiously on the tire (distance up to 200 km (120 miles)) at a max. speed of 80 km/h (50 mph) in order to reach a service station or tire dealer to have the tire replaced.

It is possible that some tires, especially with larger punctures or damage to the sidewall, cannot be sealed completely.

Air pressure loss in the tire may adversely affect tire performance.

For this reason, you should avoid abrupt steering or other driving maneuvers, especially if the vehicle is heavily loaded or if a trailer is in use.

The Tire Mobility Kit is not designed or intended as a permanent tire repair method and is to be used for one tire only. This instruction shows you step by step how to temporarily seal the puncture simply and reliably.

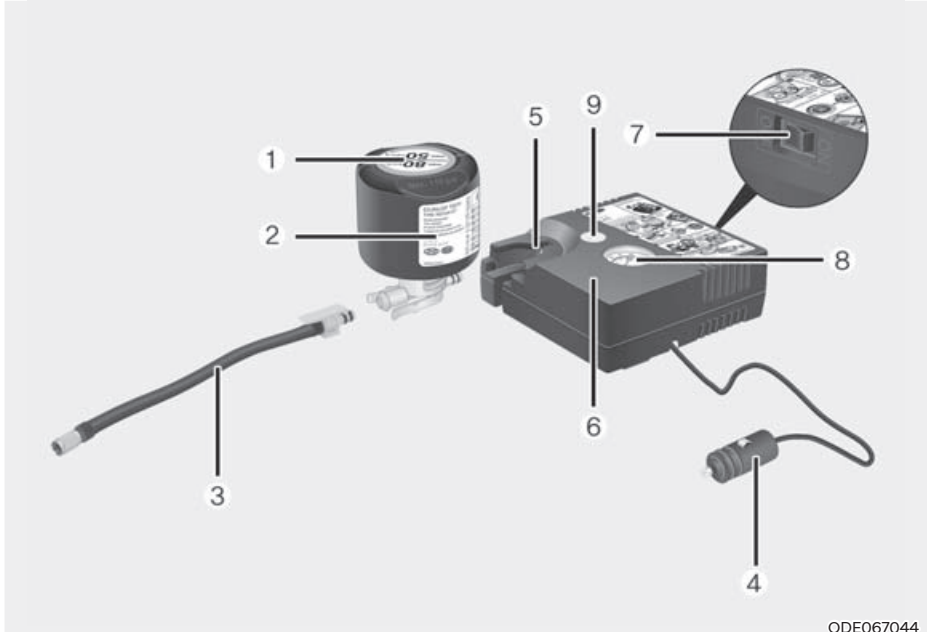
Read the section “Notes on the safe use of the Tire Mobility Kit”.

WARNING

Do not use the TMK if a tire is severely damaged by driving run flat or with insufficient air pressure.

Only punctured areas located within the tread region of the tire can be sealed using the TMK.

Components of the Tire Mobility Kit



ODE067044

1. Speed-restriction label
2. Sealant bottle and label with speed restriction
3. Filling hose
4. Connectors and cable for the power outlet direct connection
5. Holder for the sealant bottle
6. Compressor
7. ON/OFF switch
8. Pressure gauge for displaying the tire inflation pressure
9. Button for reducing the tire inflation pressure

Connectors, cable and connection hose are stored in the compressor housing. Strictly follow the specified sequence, otherwise the sealant may escape under high pressure.

WARNING

Expired sealant

Do not use the Tire sealant after the sealant has expired (i.e. pasted the expiration date on the sealant container). This can increase the risk of tire failure.

WARNING

Sealant

- Keep out of reach of children.
- Avoid contact with eyes.
- Do not swallow.

Using the Tire Mobility Kit when a tire is flat

CAUTION



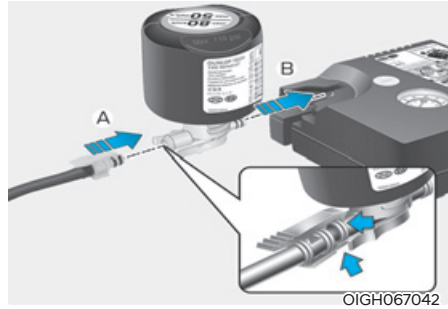
Detach the speed restriction label (1) from the sealant bottle (2), and place it in a highly visible place inside the vehicle such as on the steering wheel to remind the driver not to drive too fast.

CAUTION

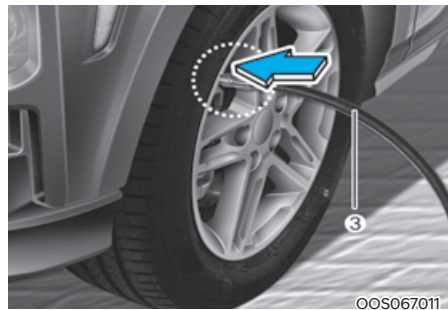
If only the tire pressure needs to be adjusted, refer to “How to Adjust Tire Pressure” in this chapter.

Before using the Tire Mobility Kit, be fully aware of the explanation on the sealant.

1. Shake the sealant bottle (2).



2. Connect the filling hose (3) to the sealant bottle (2) in the direction of (A) and connect the sealant bottle to the compressor (6) in the direction of (B).
3. Ensure that the compressor is switched OFF.
4. Unscrew the valve cap from the valve of the defective wheel and screw the filling hose (3) of the sealant bottle onto the valve.



CAUTION

Securely install the sealant filling hose to the valve. If not, sealant may flow backward, possibly clogging the filling hose.



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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. Switch on the ignition switch.
7. Switch on the compressor and let it run for approximately 5~7 minutes to fill the sealant up to proper pressure. (refer to the Tire and Wheels, chapter 8). The inflation pressure of the tire after filling is unimportant and will be checked/corrected later.

Be careful not to overinflate the tire and stay away from the tire when filling it.



CAUTION

Tire pressure

Do not attempt to drive your vehicle if the tire pressure is below 200 kPa (29 psi). This could result in an accident due to sudden tire failure.

8. Switch off the compressor.
9. Detach the hoses from the sealant bottle connector and from the tire valve.

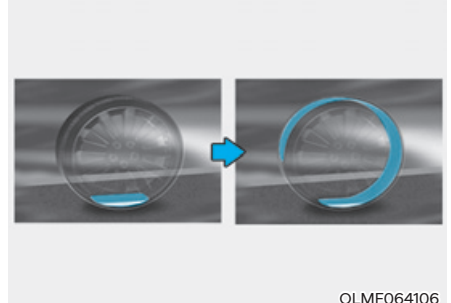
Return the Tire Mobility Kit to its storage location in the vehicle.



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.



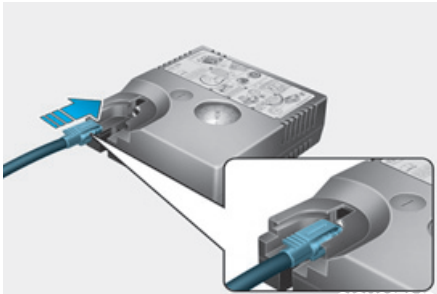
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10. Immediately drive approximately 7~10 km (4~6 miles or, about 10min) to evenly distribute the sealant in the tire.

Do not exceed a speed of 80 km/h (50 mph). If possible, do not fall below a speed of 20 km/h (12 mph).

While driving, if you experience any unusual vibration, ride disturbance or noise, reduce your speed and drive with caution until you can safely pull off of the side of the road.

Call for road side service or towing.



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11. After driving approximately 7~10 km (4~6 miles or about 10 min), stop at a safety location.
12. Connect the filling hose (3) of the compressor directly to the tire valve.
13. Plug the compressor power cord into the vehicle power outlet.
14. Adjust the tire inflation pressure to the recommended tire inflation.
With the ignition switched on, proceed as follows.
 - **To increase the inflation pressure**
: Switch on the compressor. To check the current inflation pressure setting, briefly switch off the compressor.
 - **To reduce the inflation pressure:**
Press the button (9) on the compressor.

NOTICE

Do not let the compressor run for more than 10 minutes, otherwise the device will overheat and may be damaged.

i Information

The pressure gauge may show higher than actual reading when the compressor is running. To get an accurate tire reading, the compressor needs to be turned off.

⚠ CAUTION

If the inflation pressure is not maintained, drive the vehicle a second time, refer to step 10.

Then repeat steps 1 to 4.

Use of the TMK may be ineffectual for tire damage larger than approximately 4 mm (0.16 in).

We recommend that you contact an authorized HYUNDAI dealer if the tire cannot be made roadworthy with the Tire Mobility Kit.

⚠ WARNING

The tire inflation pressure must be at least 220 kPa (32 psi). If it is not, do not continue driving.

Call for road side service or towing.

⚠ CAUTION

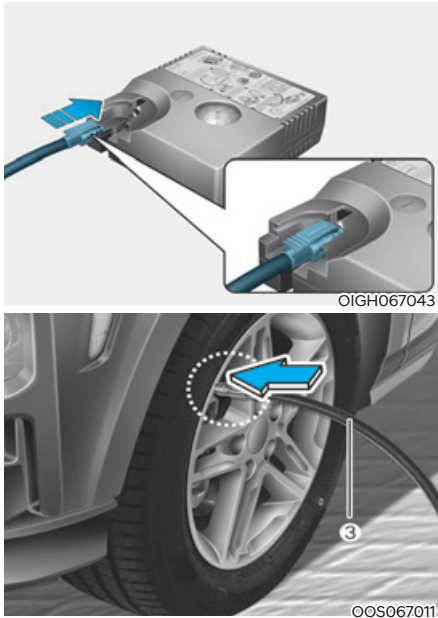
Tire pressure sensor (if equipped with TPMS)

The sealant on the tire pressure sensor and wheel should be removed when you replace the tire with a new one and inspect the tire pressure sensors. We recommend that you get this done at an authorized HYUNDAI dealer.

i Information

When reinstalling the repaired or replaced tire and wheel on the vehicle, tighten the wheel lug nut to 11~13 kgf·m (79~94 lbf·ft).

How to adjust tire pressure



1. Park your vehicle in a safe location.
2. Connect the filling hose (3) of the compressor directly to the tire valve.
3. Plug the compressor power cord into the vehicle power outlet.
4. Adjust the tire inflation pressure to the recommended tire inflation.

With the 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 tire reading, the compressor needs to be turned off.

⚠ CAUTION

Do not use the sealant when the tire pressure only needs to be adjusted.

⚠ WARNING

The tire inflation pressure must be at least 220 kPa (32 psi). If it is not, do not continue driving.

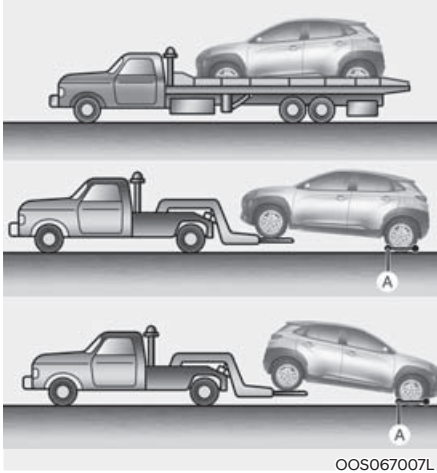
Call for road side service or towing.

Notes on the safe use of the Tire Mobility Kit

- Park your car at the side of the road so that you can work with the Tire Mobility Kit away from moving traffic.
- To be sure your vehicle will not move, even when you're on fairly level ground, always set your parking brake.
- Only use the Tire Mobility Kit for sealing/inflation passenger car tires. Only punctured areas located within the tread region of the tire can be sealed using the tire mobility kit.
- Do not use on motorcycles, bicycles or any other type of tires.
- When the tire and wheel are damaged, do not use Tire Mobility Kit for your safety.
- Use of the Tire Mobility Kit may not be effective for tire damage larger than approximately 6 mm (0.24 in).
- If the tire cannot be made roadworthy with the Tire Mobility Kit, we recommend that you contact an authorized HYUNDAI dealer.
- Do not use the Tire Mobility Kit if a tire is severely damaged by driving run flat or with insufficient air pressure.
- Do not remove any foreign objects such as nails or screws that have penetrated the tire.
- Provided the car is outdoors, leave the engine running. Otherwise operating the compressor may eventually drain the car battery.
- Never leave the Tire Mobility Kit unattended while it is being used.
- Do not leave the compressor running for more than 10 min. at a time or it may overheat.
- Do not use the Tire Mobility Kit if the ambient temperature is below -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.

TOWING

Towing service



OOS067007L

[A] : Dollies

If emergency towing is necessary, we recommend having it done by an authorized HYUNDAI dealer or a commercial tow-truck service.

Proper lifting and towing procedures are necessary to prevent damage to the vehicle. The use of wheel dollies or flatbed is recommended.



CAUTION

The 4WD vehicle should never be towed with the wheels on the ground. This can cause serious damage to the transaxle or the 4WD system.

On 2WD vehicles, it is acceptable to tow the vehicle with the rear wheels on the ground (without dollies) and the front wheels off the ground.

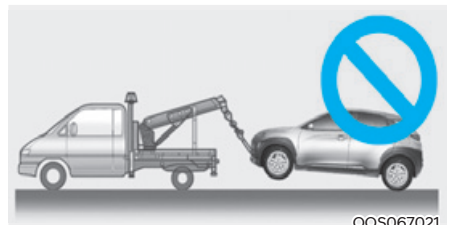
If any of the loaded wheels or suspension components are damaged or the vehicle is being towed with the front wheels on the ground, use a towing dolly under the front wheels.

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.



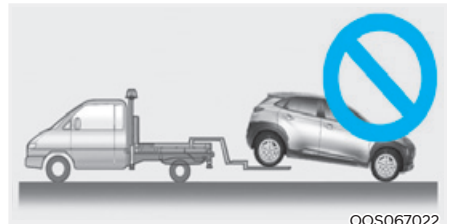
CAUTION

- **Do not tow the vehicle with the front wheels on the ground as this may cause damage to the vehicle.**
- **An AWD vehicle should never be towed with the wheels on the ground. This can cause serious damage to the transmission or the AWD system.**



OOS067021

- **Do not tow with sling-type equipment. Use wheel lift or flatbed equipment.**



OOS067022

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:

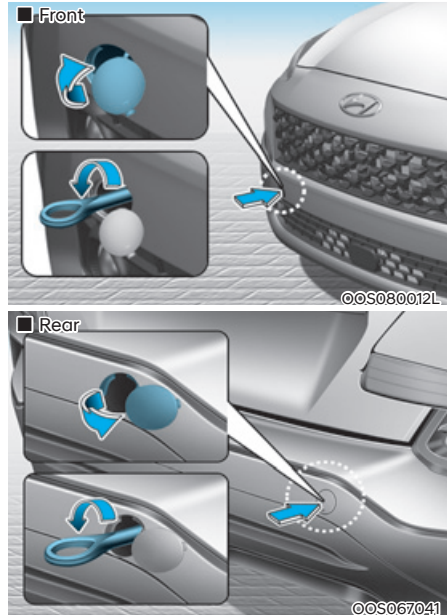
1. Place the ignition switch in the ACC position.
2. Place the shift lever in N (Neutral).
3. Release the parking brake.

CAUTION

Failure to place the shift lever in N (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 an authorized HYUNDAI dealer 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.



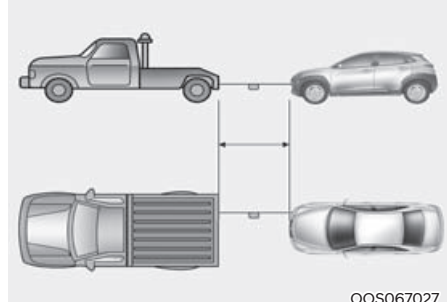
CAUTION

The driver must be in the vehicle for steering and braking operations when the vehicle is being towed. Passengers other than the driver must not be in the vehicle.

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 N (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.



OOS067027

- 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. If the dual clutch transmission fluid is leaking, flatbed equipment or a towing dolly must be used.

NOTICE

Accelerate or decelerate the vehicle in a slow and gradual manner while maintaining tension on the tow rope or chain to start or drive the vehicle, otherwise tow hooks and the vehicle may be damaged.

NOTICE

To avoid damage to your vehicle and vehicle components when towing:

- Always pull straight ahead when using the towing hooks. Do not pull from the side or at a vertical angle.
- Do not use the towing hooks to pull a vehicle out of mud, sand or other conditions from which the vehicle cannot be driven out under its own power.
- Limit the vehicle speed to 15km/h (10mph) and drive less than 1.5km(1 mile) when towing to avoid serious damage to transmission. (if equipped with automatic transmission)
- The vehicle should be towed at a speed of 25km/h (15 mph) or less within the distance of 20km (12 miles). (if equipped with manual transmission/dual clutch transmission)

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.

Tire pressure gauge (if equipped)

Tires normally lose some air in day-to-day use, and you may have to add a air periodically and usually it is not a sign of a leaking tire, but of normal wear. Always check tire pressure when the tires are cold because tire pressure increases with temperature.

To check the tire pressure, take the following steps:

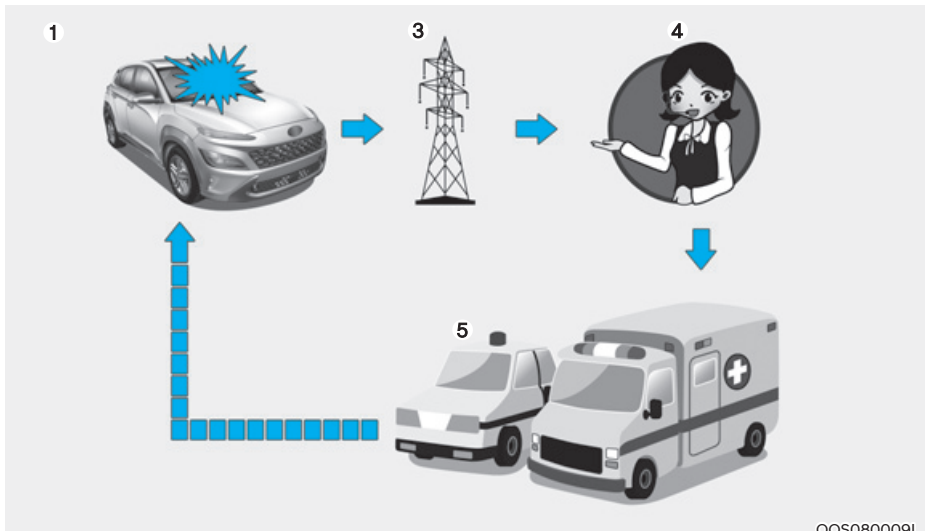
1. Unscrew the inflation valve cap that is located on the rim of the tire.
2. Press and hold the gauge against the tire valve. Some air will leak as you begin and more will leak if you don't press the gauge in firmly.
3. A firm non-leaking push will activate the gauge.
4. Read the tire pressure on the gauge to see whether the tire pressure is low or high.
5. Adjust the tire pressure to the specified pressure. Refer to "Tires and Wheels" in chapter 8.
6. Reinstall the inflation valve cap.

PAN-EUROPEAN ECALL SYSTEM (IF EQUIPPED)

The vehicle is equipped with a device* connected with the Pan-European eCall system for making emergency call to response teams. The Pan-European eCall system is an automatic emergency call service made in event of a traffic accident or other** accidents on the roads of Europe. (only in countries with regulation on this system)

The system allows contacting with an officer of the Public Safety Answering Point (PSAP) in case of accidents on the roads of Europe. (only in countries with regulation on this system)

The Pan-European eCall system given conditions, stated in the Owner's Manual as well as Warranty and Service book transmits data to the Public Safety Answering Point (PSAP) including such information as vehicle location, vehicle type, VIN (vehicle identification number of the vehicle).



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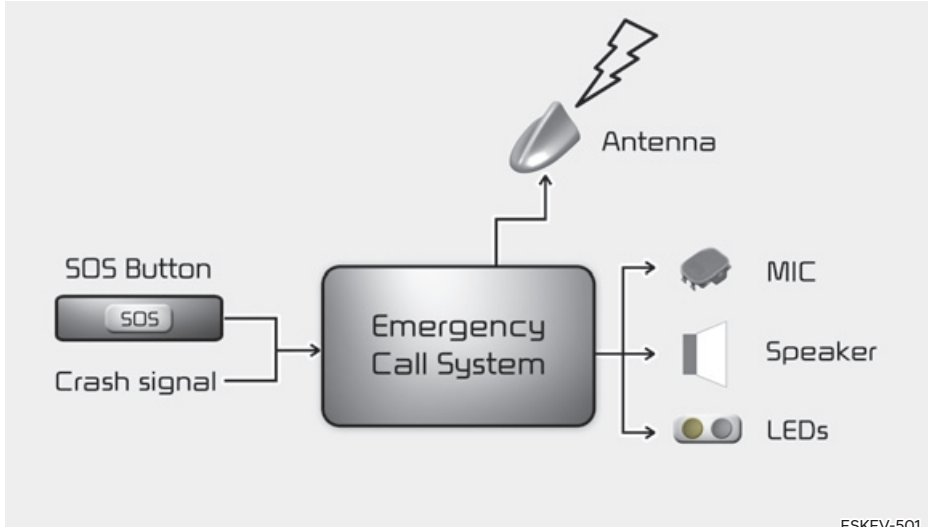
1. Road accident
2. Wireless network
3. Public Safety Answering Point (PSAP)
4. Rescue

* Pan-European eCall device in the Owner's Manual means equipment, installed in the vehicle, which provides connection with the Pan-European eCall system.

** "Other accidents" mean any accidents on the roads of Europe (only in countries with regulation on this system) resulted in injured people and/or necessity of provision of assistance. In case of registration of any accident, it is necessary to stop a vehicle, press button SOS (location of the button is specified on the picture in the chapter "Pan-European eCall (IF EQUIPPED)") of the Owner's Manual. When making a call, the system gathers information about the vehicle (from which a call was made), after which connects the car with an officer of the Public Safety Answering Point (PSAP) to tell about the reason of the emergency call.

Once the data which is stored in the Pan-European eCall system is delivered to the rescue center to assist the driver and passengers with proper rescue operations, the data will be deleted after rescue operation is completed.

Description of the eCall in-vehicle system



ESKEV-501

Overview of the 112-based eCall in-vehicle system, its operation and functionalities: refer to this section. The 112-based eCall service is a public service of general interest and is accessible free of charge.

The 112-based eCall in-vehicle system is activated by default. It is activated automatically by means of in-vehicle sensors in the event of a severe accident.

It will also be triggered automatically when the vehicle is equipped with a TPS system which does not function in the event of a severe accident.

The 112-based eCall in-vehicle system can also be triggered manually, if needed.

Instructions for manual activation of the system: refer to this section.

In the event of a critical system failure that would disable the 112-based eCall in-vehicle system, the following warning will be given to the occupants of the vehicle: refer to this section.

Information on data processing

Any processing of personal data through the 112-based eCall in-vehicle system shall comply with the personal data protection rules provided for in Directives 95/46/EC (1) and 2002/58/EC (2) of the European Parliament and of the Council, and in particular, shall be based on the necessity to protect the vital interests of the individuals in accordance with Article 7(d) of Directive 95/46/EC (3).

Processing of such data is strictly limited to the purpose of handling the emergency eCall to the single European emergency number 112.

Types of data and its recipients

The 112-based eCall in-vehicle system may collect and process only the following data:

- Vehicle Identification Number
- Vehicle type (passenger vehicle or light commercial vehicle)
- Vehicle propulsion storage type (gasoline/diesel/CNG/LPG/electric/hydrogen)
- Vehicle locations and direction of travel
- Timestamp of the automatic activation of the system
- Any additional data (if applicable): Not applicable

Recipients of data processed by the 112-based eCall in-vehicle system are the relevant public safety answering points designated by the respective public authorities of the country on which territory they are located, to first receive and handle eCalls to the single European emergency number 112. Additional information (if available): Not applicable

- (1) Directive 95/46/EC of the European Parliament and of the Council of 24 October 1995 on the protection of individuals with regard to the processing of personal data and on the free movement of such data (OJ L 281, 23.11.1995, p. 31).
- (2) Directive 2002/58/EC of the European Parliament and of the Council of 12 July 2002 concerning the processing of personal data and the protection of privacy in the electronic communications sector (Directive on privacy and electronic communications) (OJ L 201, 31.7.2002, p. 37).
- (3) Directive 95/46/EC is repealed by Regulation (EU) 2016/679 of the European Parliament and of the Council of 27 April 2016 on the protection of natural persons with regard to the processing of personal data and on the free movement of such data (General Data Protection Regulation) (OJ L 119, 4.5.2016, p. 1). The Regulation applies from 25 May 2018.

Arrangements for data processing

The 112-based eCall in-vehicle system is designed in such a way as to ensure that the data contained in the system memory is not available outside the system before an eCall is triggered.

Additional remarks (if any): Not applicable

The 112-based eCall in-vehicle system is designed in such a way as to ensure that it is not traceable and not subject to any constant tracking in its normal operation status. Additional remarks (if any): Not applicable

The 112-based eCall in-vehicle system is designed in such a way as to ensure that data in the system internal memory is automatically and continuously removed.

The vehicle location data is constantly overwritten in the internal memory of the system of the vehicle necessary for the normal functioning of the system.

The log of activity data in the 112-based eCall in-vehicle system is kept for no longer than necessary for attaining the purpose of handling the emergency eCall and in any case not beyond 13 hours from the moment an emergency eCall was initiated. Additional remarks (if any): Not applicable

Modalities for exercising data subject's rights

The data subject (the vehicle's owner) has a right of access to data and as appropriate to request the rectification, erasure or blocking of data, concerning him or her, the processing of which does not comply with the provisions of Directive 95/46/EC. Any third parties to whom the data have been disclosed have to be notified of such rectification, erasure or blocking carried out in compliance with this Directive, unless it proves impossible or involves a disproportionate effort.

The data subject has a right to complain to the competent data protection authority if he or she considers that his or her rights have been infringed as a result of the processing of his or her personal data.

Contact service responsible for handling access requests (if any): Not applicable

Pan-European eCall System



Elements of the Pan-European eCall system, installed in passenger compartment:

- (1) SOS button
- (2) LED

SOS button:

The driver/passenger makes an emergency call to the single duty dispatch service by pressing the button.

LED:

The red and green LED illuminates for 3 seconds when the ignition switch is in the ON position. After that they will switch off at normal operation of the system.

If there are some problems in the system, the LED remains in red.

Automatic accident reporting



The Pan-European eCall device automatically makes an emergency call to the Public Safety Answering Point (PSAP) for proper rescuing operations in event of vehicle accident.

For proper emergency services and support the Pan-European eCall system automatically transmits the accident data to the Public Safety Answering Point (PSAP) when a traffic accident is detected.

In this case, the emergency call cannot be hung up by pressing the SOS button and the Pan-European eCall system remains connected until the emergency service officer, receiving the call, disconnects the emergency call.

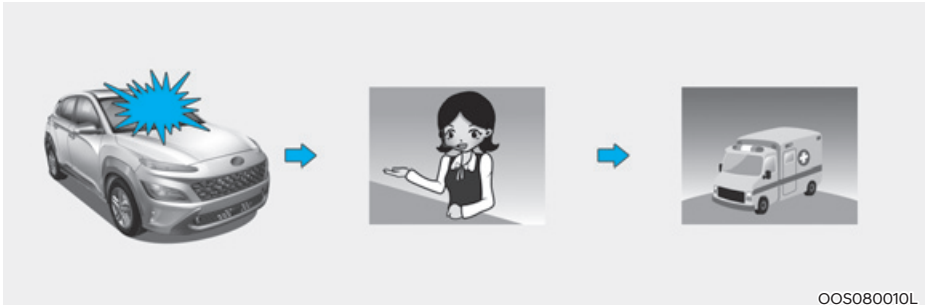
In minor traffic accidents the Pan-European eCall system may not execute an emergency call. However, an emergency call may be made manually by pressing the SOS button.



CAUTION

Operation of the system is impossible in case of absence of mobile transmission and GPS and Galileo signals.

Manual accident reporting



The driver or passenger manually can make an emergency call in the Public Safety Answering Point(PSAP), by pressing SOS button to call the necessary emergency services.

A call to the emergency services through the Pan-European eCall system can be cancelled by pressing the SOS button again within 3 seconds.

After activation of emergency call in the manual mode (for proper emergency services and support), the Pan-European eCall system automatically transmits the road accident data / or data on other accident to the officer of the Public Safety Answering Point(PSAP).

If the driver or passenger accidentally presses the SOS button, it can be canceled by pressing the button again within 3 seconds.

In case of road accident or other accident for activation of emergency call in manual mode it is necessary:

1. Stop the vehicle in accordance with traffic rules to ensure safety to yourself and other participants of road traffic;
2. Press the SOS button, when pressing the button SOS registration of the device in the wireless telephonic communication networks is carried out, minimum data set about vehicle and its location is collected in accordance with of the technical requirements of the device. After that connection with the officer of the Pan-European eCall system is made for clearing up reasons (conditions) of the emergency call.
3. After clearing up reasons of the emergency call, the officer of the Public Safety Answering Point (PSAP) sends emergency services and completes the emergency call.

If the emergency call is not carried out in accordance with the procedure, mentioned above, the emergency call will be considered as erroneous.



WARNING

Emergency power supply of the Pan-European eCall system from the battery

- The Pan-European eCall system battery supplies power in case main power source of the vehicle is cut off due to the collision during the emergency situations.
- The Pan-European eCall system battery should be replaced every 3 years. For more information refer to the Maintenance Schedule in chapter 9.

LED illumination in red (system malfunction)

If red LED illuminates in normal driving conditions, this can indicate malfunction of the Pan-European eCall system. We recommend that system be checked by an authorized HYUNDAI dealer.

Otherwise correct operation of the Pan-European eCall system device, installed in your vehicle is not guaranteed. Owner of the vehicle incurs liability for consequences, occurred as a result of nonobservance of conditions, mentioned above.

Arbitrary Removal or Modification

The Pan-European eCall system calls emergency services for assistance. Thus, any arbitrary removal or changes to the Pan-European eCall system settings may affect your driving safety. Also, it may even make an erroneous emergency call to the Public Safety Answering Point (PSAP). Thereby, we kindly ask you not to make any changes by yourself or by the third parties in the settings of the equipment of the Pan-European eCall system, installed in your vehicle.

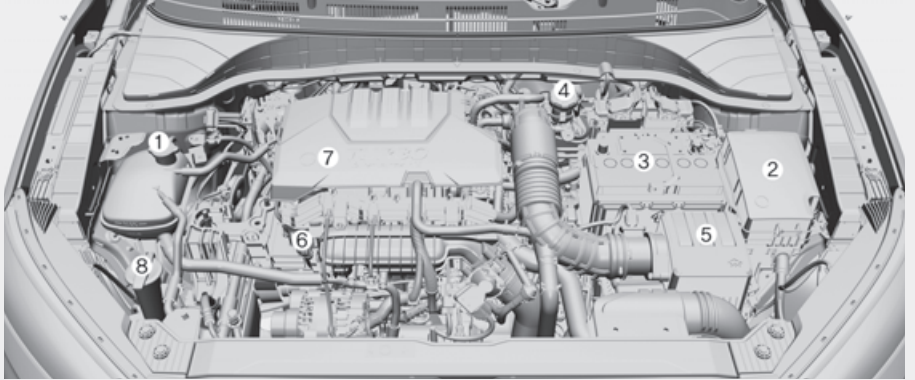
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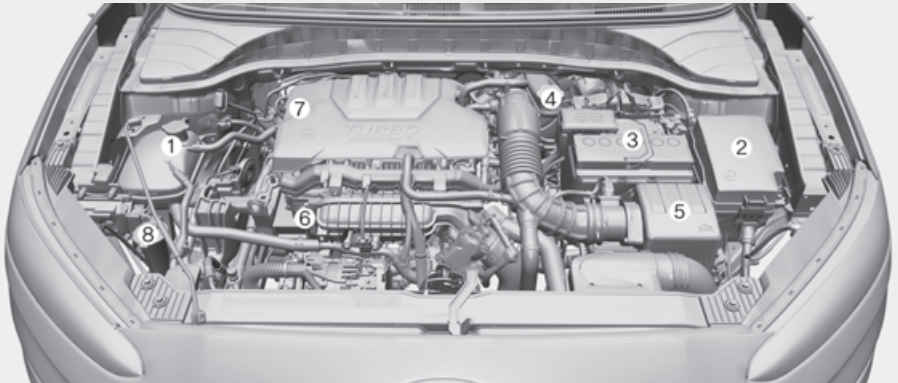
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ENGINE COMPARTMENT

■ Smartstream G1.0 T-GDi



■ Smartstream G1.0 T-GDI (48V) MHEV

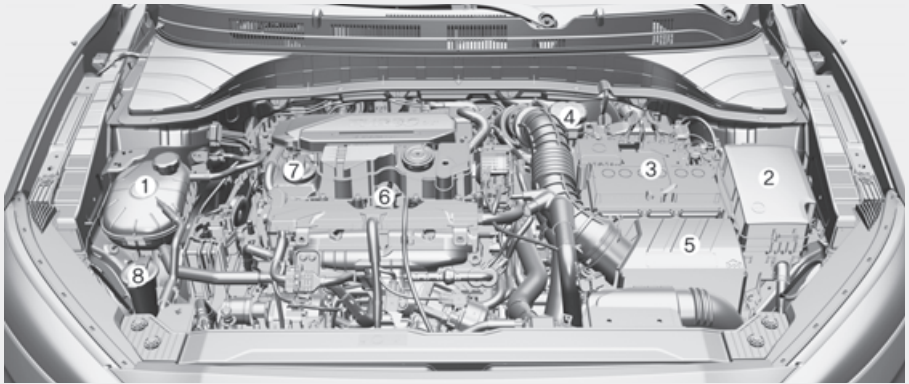


The actual engine compartment in the vehicle may differ from the illustration.

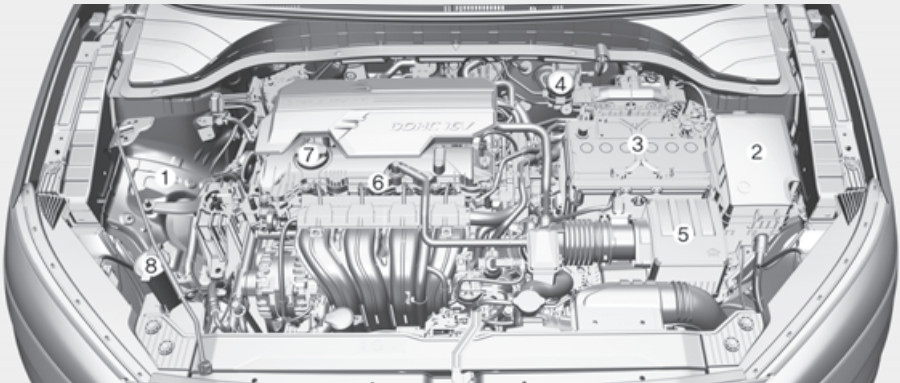
OOS090047L/OOS090020L

- | | |
|--|--------------------------------------|
| 1. Engine coolant reservoir/
Engine coolant cap | 5. Air cleaner |
| 2. Fuse box | 6. Engine oil dipstick |
| 3. Battery | 7. Engine oil filler cap |
| 4. Brake/clutch fluid reservoir | 8. Windshield washer fluid reservoir |

■ Smartstream G1.6 T-GDi (including N Line)



■ Smartstream G2.0 Atkinson (Except Europe)

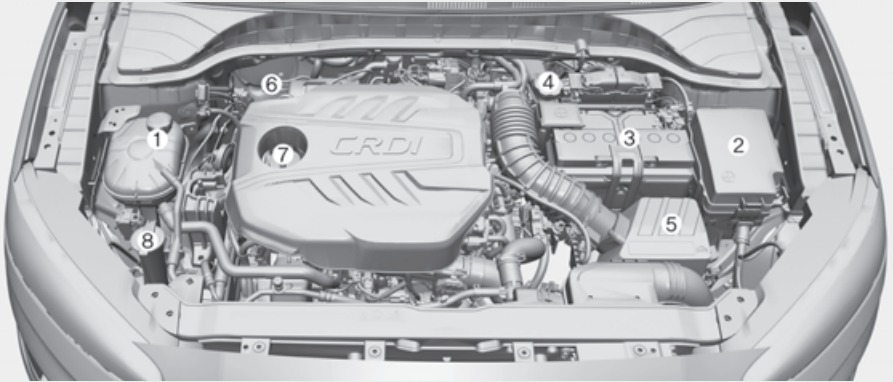


The actual engine compartment in the vehicle may differ from the illustration.

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- | | |
|--|--------------------------------------|
| 1. Engine coolant reservoir/
Engine coolant cap | 5. Air cleaner |
| 2. Fuse box | 6. Engine oil dipstick |
| 3. Battery | 7. Engine oil filler cap |
| 4. Brake/clutch fluid reservoir | 8. Windshield washer fluid reservoir |

■ Smartstream D1.6 (48V) MHEV



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

OOS090022L

1. Engine coolant reservoir/
Engine coolant cap
2. Fuse box
3. Battery
4. Brake/clutch fluid reservoir
5. Air cleaner
6. Engine oil dipstick
7. Engine oil filler cap
8. Windshield washer fluid reservoir

MAINTENANCE SERVICES

You should exercise the utmost care to prevent damage to your vehicle and injury to yourself whenever performing any maintenance or inspection procedures.

We recommend you have your vehicle maintained and repaired by an authorized HYUNDAI dealer. An authorized HYUNDAI dealer meets HYUNDAI's high service quality standards and receives technical support from HYUNDAI in order to provide you with a high level of service satisfaction.

Owner's responsibility

Maintenance service and record retention are the owner's responsibility.

You should retain documents that show proper maintenance has been performed on your vehicle in accordance with the scheduled maintenance service charts shown on the following pages. You need this information to establish your compliance with the servicing and maintenance requirements of your vehicle warranties.

Detailed warranty information is provided in your Service Passport.

Repairs and adjustments required as a result of improper maintenance or a lack of required maintenance are not covered.

Owner maintenance precautions

Inadequate, incomplete or insufficient servicing may result in operational problems with your vehicle that could lead to vehicle damage, an accident, or personal injury. This chapter provides instructions only for the maintenance items that are easy to perform.

Your vehicle should not be modified in any way. Such modifications may adversely affect the performance, safety or durability of your vehicle and may, in addition, violate conditions of the limited warranties covering the vehicle.

NOTICE

Improper owner maintenance during the warranty period may affect warranty coverage. For details, read the separate Service Passport provided with the vehicle. If you're unsure about any servicing or maintenance procedure, we recommend that the system be serviced by an authorized HYUNDAI dealer.

OWNER MAINTENANCE



WARNING

Performing maintenance work on a vehicle can be dangerous. If you lack sufficient knowledge and experience or the proper tools and equipment to do the work, we recommend that the system be serviced by an authorized HYUNDAI dealer. ALWAYS follow these precautions for performing maintenance work:

- Park your vehicle on level ground, move the shift lever into the P (Park, for dual clutch transmission vehicle) position or neutral (for manual transmission vehicle) position, apply the parking brake, and place the ignition switch in the LOCK/ OFF position.
- Block the tires (front and back) to prevent the vehicle from moving.
Remove loose clothing or jewelry that can become entangled in moving parts.
- If you must run the engine during maintenance, do so out doors or in an area with plenty of ventilation.
- Keep flames, sparks, or smoking materials away from the battery and fuel-related parts.

The following lists are vehicle checks and inspections we recommend to be checked by an authorized HYUNDAI dealer at the frequencies indicated to help ensure safe, dependable operation of your vehicle.

Any adverse conditions should be brought to the attention of your dealer as soon as possible.

These Owner Maintenance vehicle checks are generally not covered by warranties and you may be charged for labor, parts and lubricants used.



WARNING

Diesel Engine

Never manipulate or modify the injection system while running the diesel engine or within 30 seconds after turning OFF the diesel engine. The high-pressure pump, high-pressure pipes, rail, and injectors are still subject to high pressure immediately after stopping the diesel engine.

When the fuel leakage vents out, it may cause serious body injury. Any people, who are implanted with the artificial cardiac pacemaker, should remain away from the ECU or the wiring harness by at least 30 cm, while running the diesel engine. The high currents of the electronic engine control system produce a considerable amount of magnetic fields.

Owner maintenance schedule

When you stop for fuel:

- Check the engine oil level.
- Check the coolant level in the engine coolant reservoir.
- Check the windshield washer fluid level.
- Check for low or under-inflated tires.



WARNING

Be careful when checking your engine coolant level when the engine is hot. This may result in coolant being blown out of the opening and cause serious burns and other injuries.

While operating your vehicle:

- Note any changes in the sound of the exhaust or any smell of exhaust fumes in the vehicle.
- Check for vibrations in the steering wheel. Notice if there is any increased steering effort or looseness in the steering wheel, or change in its straight-ahead position.
- Notice if your vehicle constantly turns slightly or “pulls” to one side when traveling on smooth, level road.
- When stopping, listen and check for unusual sounds, pulling to one side, increased brake pedal travel or “hard-to-push” brake pedal.
- If any slipping or changes in the operation of your transmission occurs, check the transmission fluid level.
- Check the 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 tires including the spare for tires that are worn, show uneven wear, or are damaged.
- Check for loose wheel lug nuts.

At least twice a year: (i.e., every Spring and Autumn)

- Check radiator, heater and air conditioning hoses for leaks or damage.
- Check windshield washer spray and wiper operation. Clean wiper blades with a clean cloth dampened with washer fluid.
- Check headlamp alignment.
- Check muffler, exhaust pipes, shields and clamps.
- Check the seat belts for wear and function.

At least once a year:

- Clean body and door drain holes.
- Lubricate door hinges and hood hinges.
- Lubricate door and hood locks and latches.
- Lubricate door rubber weather strips.
- Check the air conditioning system.
- Inspect and lubricate dual clutch transmission linkage and controls.
- Clean the battery and terminals.
- Check the brake fluid level.

SCHEDULED MAINTENANCE SERVICES

Follow Normal Maintenance Schedule if the vehicle is usually operated where none of the following conditions apply.

If any of the following conditions apply, you must follow the Maintenance Under Severe Usage Conditions.

- Repeated driving short distance of less than 8 km (5 miles) in normal temperature or less than 16 km (10 miles) 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
- Towing a trailer or using a camper, or roof rack
- Driving as a patrol car, taxi, other commercial use of vehicle towing
- Driving over 170km/h (106 mile/h) or frequent rapid acceleration/deceleration
- Frequently driving in stop-and-go condition
- Engine oil usage which is not recommended (mineral, semi- synthetic, viscosity grade, etc.)

If your vehicle is operated under the above conditions, you should inspect, replace or refill more frequently than the following Normal Maintenance Schedule. After the periods or distance shown in the chart, continue to follow the prescribed maintenance intervals.

Normal maintenance schedule (for Europe) Gasoline engine items

MAINTENANCE INTERVALS		Number of months or driving distance, whichever comes first									
		24	48	72	96	120	144	168	192		
MAINTENANCE ITEM	Months	20	40	60	80	100	120	140	160		
	Miles*1,000	30	60	90	120	150	180	210	240		
Engine oil and engine oil filter *1*2		Replace every 15,000 km (10,000 miles) or 12 months									
Drive belts *3		At first, inspect at 90,000 km (60,000 miles) or 72 months, after that, replace every 30,000 km (20,000 miles) or 24 months									
MHEV (Mild Hybrid) belt *3		At first inspect at 15,000km (10,000 miles) or 12 months, After that, replace every 105,000 km (65,200 miles) or 84 months									
Fuel additives *4		Add every 15,000 km (10,000 miles) or 12 months									
Air cleaner filter		I	R	I	R	I	R	I	R	I	R
Spark plugs *5		Replace every 75,000 km (50,000 miles) or 60 months									
Vapor hose and fuel filler cap		I	I	I	I	I	I	I	I	I	I
Fuel tank air filter		I	I	I	I	I	I	I	I	I	I
Fuel lines, hoses and connections		I	I	I	I	I	I	I	I	I	I

I : Inspect and if necessary, adjust, correct, clean or replace.

R : Replace or change.

*1: As it is normal for engine oil to be consumed during driving, the amount of engine oil should be checked regularly. Operating with an insufficient amount of oil can damage the engine, and such damage is not covered by warranty.

*2: Check the engine oil level and leak every 500 km (350 miles) or before starting a long trip.

*3: inspect drive belt tensioner, idler and alternator pulley and if necessary correct or replace.

*4: if good quality gasolines meet Europe Fuel standards (EN228) or equivalents including fuel additives is not available, one bottle of additive is recommended. Additives are available from your authorized HYUNDAI dealer along with information on how to use them. Do not mix other additives.

*5: For your convenience, it can be replaced prior to it's interval when you do maintenance of other items.

* The fuel filter is considered to be maintenance free but periodic inspection is recommended for this maintenance schedule depends on fuel quality. If there are some important matters like fuel flow restriction, surging, loss of power, hard starting problem etc, we recommend that you replace the fuel filter immediately regardless of maintenance schedule and consult an authorized HYUNDAI dealer for details.

Normal maintenance schedule (for Europe) (Cont.)

Diesel engine items

MAINTENANCE INTERVALS		Number of months or driving distance, whichever comes first									
MAINTENANCE ITEM	Months	24	48	72	96	120	144	168	192		
	Miles×1,000	20	40	60	80	100	120	140	160		
	Km×1,000	30	60	90	120	150	180	210	240		
Engine oil and engine oil filter *1*2*3*4	R	R	R	R	R	R	R	R	R	R	R
Drive belts *5	At first, inspect at 90,000 km (60,000 miles) or 48 months, after that, replace every 30,000 km (20,000 miles) or 24 months										
MHEV (Mild Hybrid) belt *5	At first, inspect at 90,000km (60,000 miles) or 48 months, After that, replace every 30,000 km (20,000 miles) or 24 months										
Air cleaner filter	I	R	I	R	I	R	I	R	I	R	I
Fuel lines, hoses and connections	I	I	I	I	I	I	I	I	I	I	I
Fuel filter cartridge *6	I	R	I	R	I	R	I	R	I	R	I
Fuel filler cap	I	I	I	I	I	I	I	I	I	I	I
Timing belt system (Timing belt, Oil pump belt, Tensioner, idler)	Inspect Timing belt every 120,000 km (80,000 miles) Replace Timing belt system (Timing belt, Water pump, Tensioner, Idler) every 240,000 km (160,000 miles)										

I : Inspect and if necessary, adjust, correct, clean or replace.

R : Replace or change.

*1: As it is normal for engine oil to be consumed during driving, the amount of engine oil should be checked regularly. Operating with an insufficient amount of oil can damage the engine, and such damage is not covered by warranty.

*2: Check the engine oil level and leak every 500 km (350 miles) or before starting a long trip.

*3: This maintenance schedule depends on fuel quality. It is applicable only when using a qualified fuel <"EN590 or equivalent">. If the diesel fuel specifications don't meet the EN590, it must be replaced according to the severe maintenance schedule.

*4: If SAE 0W-30 engine oil is not available, replace engine oil and engine oil filter every 20,000 km or 12 months.

*5: inspect drive belt tensioner, idler and alternator pulley and if necessary correct or replace.

*6: This maintenance schedule depends on fuel quality. It is applicable only when using a qualified fuel <"EN590 or equivalent">. If the diesel fuel specifications don't meet the EN590, it must be replaced more frequently. If there are some important safety matters like fuel flow restriction, surging, loss of power, hard starting problem etc., replace the fuel filter immediately regardless of maintenance schedule. We recommend that you consult an authorized HYUNDAI dealer for details.

**Normal maintenance schedule (for Europe) (Cont.)
General items - for both Gasoline and Diesel engine**

MAINTENANCE INTERVALS		Number of months or driving distance, whichever comes first									
		Months	24	48	72	96	120	144	168	192	
MAINTENANCE ITEM	Miles*1,000	20	40	60	80	100	120	140	160		
	Km*1,000	30	60	90	120	150	180	210	240		
Cooling system		Inspect "Coolant level adjustment and leak" every day. At first, inspect 60,000 km (40,000 miles) or 48 months after that, inspect every 30,000 km (20,000 miles) or 24 months									
Engine coolant *1		At first, replace at 210,000 km (120,000 miles) or 10 years ; after that, replace every 30,000 km (20,000 miles) or 24 months *2									
All electrical systems		I	I	I	I	I	I	I	I	I	
Intercooler, in/out hose, air intake hose		Inspect every 15,000 km (10,000 miles)									
Battery condition		I	I	I	I	I	I	I	I	I	
Pan-European eCall system battery (if equipped) / ERA-GLONASS system battery (if equipped)		Replace every 3 years									
Brake lines, hoses and connections		I	I	I	I	I	I	I	I	I	
Parking brake (if equipped)		I	I	I	I	I	I	I	I	I	
Brake fluid		R	R	R	R	R	R	R	R	R	
Disc brakes and pads		I	I	I	I	I	I	I	I	I	

I : Inspect and if necessary, adjust, correct, clean or replace.

R : Replace or change.

*1: When adding coolant, use only deionized water or soft water for your vehicle and never mix hard water in the coolant filled at the factory. An improper coolant mixture can result in serious malfunction or engine damage.

*2: For your convenience, it can be replaced prior to it's interval when you do maintenance of other items.

Normal maintenance schedule (for Europe) (Cont.) General items - for both Gasoline and Diesel engine

MAINTENANCE INTERVALS	Number of months or driving distance, whichever comes first										
	Months	24	48	72	96	120	144	168	192		
MAINTENANCE ITEM	Miles*1,000	20	40	60	80	100	120	140	160		
	Km*1,000	30	60	90	120	150	180	210	240		
Steering gear rack, linkage and boots		I	I	I	I	I	I	I	I		
Driveshaft and boots		I	I	I	I	I	I	I	I		
Tire (pressure & tread wear)		I	I	I	I	I	I	I	I		
Suspension ball joints		Inspect every 30,000 km (20,000 miles) or 24 months									
Air conditioner refrigerant		I	I	I	I	I	I	I	I		
Air conditioner compressor		I	I	I	I	I	I	I	I		
Cabin air filter		R	R	R	R	R	R	R	R		
Manual transmission fluid/Intelligent manual transmission fluid (if equipped)*3			I	I	I	I	I	I	I		
Intelligent variable transmission fluid (if equipped)		No check, No service required									
Dual clutch transmission fluid		I	I	I	I	I	I	I	I		
Exhaust system		I	I	I	I	I	I	I	I		
Valve clearance *4		Inspect every 90,000 km (60,000 miles) or 72 months									
Rear differential oil (4WD) *3		I	I	I	I	I	I	I	I		
Transfer case oil (4WD) *3		I	I	I	I	I	I	I	I		
Propeller shaft		I	I	I	I	I	I	I	I		

I : Inspect and if necessary, adjust, correct, clean or replace.

R : Replace or change.

*3: Manual transmission/dual clutch transmission fluid, transfer case oil and rear differential oil should be changed anytime they have been submerged in water.

*4: Inspect for excessive valve noise and/or engine vibration and adjust if necessary. We recommend that the system be checked by an authorized HYUNDAI dealer.

Maintenance Under Severe Usage and Low Mileage Conditions (Gasoline Engine, for Europe)

The following items must be serviced more frequently on cars mainly used under severe and low mileage driving conditions. Refer to the chart below for the appropriate maintenance intervals.

R : Replace I : Inspect and if necessary, adjust, correct, clean or replace

Maintenance item	Maintenance operation	Maintenance intervals	Driving condition
Engine oil and engine oil filter	R	Replace every 7,500 km (4,500 miles) or 6 months	A, B, C, D, E, F, G, H, I, J, K, L
Air cleaner filter	R	Replace more frequently depending on the condition	C, E
Spark plugs	R	Replace more frequently depending on the condition	B, H
Steering gear rack, linkage and boots	I	Inspect more frequently depending on the condition	C, D, E, F, G
Front suspension ball joints	I	Inspect more frequently depending on the condition	C, D, E, F, G
Disc brakes and pads, calipers and rotors	I	Inspect more frequently depending on the condition	C, D, E, G, H
Parking brake	I	Inspect more frequently depending on the condition	C, D, G, H
Driveshaft and boots	I	Inspect more frequently depending on the condition	C, D, E, F, G, H, I, J
Climate control air filter	R	Replace more frequently depending on the condition	C, E, G
Manual transmission fluid / Intelligent manual transmission fluid	R	Every 120,000 km (80,000 miles)	C, D, E, F, G, H, I, J
Intelligent Variable Transmission Fluid	R	Every 90,000 km (60,000 miles)	A, C, D, E, F, G, H, I, K, J

Maintenance item	Maintenance operation	Maintenance intervals	Driving condition
Dual clutch transmission fluid	R	Every 120,000 km (80,000 miles)	C, D, E, F, G, H, I, J
Rear differential oil (4WD)	R	Every 120,000 km (80,000 miles)	C, D, E, G, H, I, J
Transfer case oil (4WD)	R	Every 120,000 km (80,000 miles)	C, D, E, G, H, I, J
Propeller shaft (4WD)	I	More Frequently	C, D, E, F, G, H, I, J

Severe driving conditions

- A. Repeatedly driving short distance of less than 8 km (5 miles) in normal temperature or less than 16 km (10 miles) in freezing temperature
- B. Extensive engine idling or low speed driving for long distances
- C. Driving on rough, dusty, muddy, unpaved, graveled or salt spread roads
- D. Driving in areas using salt or other corrosive materials or in very cold weather
- E. Driving in the heavy dust condition
- F. Driving in heavy traffic area
- G. Driving on uphill, downhill, or mountain roads repeatedly
- H. Towing a trailer, or using a camper or roof rack
- I. Driving as patrol car, taxi, commercial car or vehicle towing
- J. Driving over 170km/h (106mile/h) or frequent rapid acceleration/deceleration
- K. Frequently driving in stop-and-go conditions and under 15,000 km per year.
- L. Engine oil usage which is not recommended (mineral type, semi-synthetic, lower grade, etc.)

Maintenance Under Severe Usage and Low Mileage Conditions (Diesel Engine, for Europe)

The following items must be serviced more frequently on cars mainly used under severe and low mileage driving conditions. Refer to the chart below for the appropriate maintenance intervals.

R : Replace I : Inspect and if necessary, adjust, correct, clean or replace

Maintenance item	Maintenance operation	Maintenance intervals	Driving condition
Engine oil and engine oil filter	R	Replace every 15,000 km (10,000 miles) or 12 months	A, B, C, D, E, F, G, H, I, J, K, L
Air cleaner filter	R	Replace more frequently depending on the condition	C, E
Steering gear rack, linkage and boots	I	Inspect more frequently depending on the condition	C, D, E, F, G
Front suspension ball joints	I	Inspect more frequently depending on the condition	C, D, E, F, G
Disc brakes and pads, calipers and rotors	I	Inspect more frequently depending on the condition	C, D, E, G, H
Parking brake	I	Inspect more frequently depending on the condition	C, D, G, H
Driveshaft and boots	I	Inspect more frequently depending on the condition	C, D, E, F, G, H, I

Maintenance item	Maintenance operation	Maintenance intervals	Driving condition
Climate control air filter	R	Replace more frequently depending on the condition	C, E, G
Manual transmission fluid	R	Every 120,000 km (80,000 miles)	C, D, E, F, G, H, I, J
Dual clutch transmission fluid	R	Every 120,000 km (80,000 miles)	C, D, E, F, G, H, I, J
Rear differential oil (4WD)	R	Every 120,000 km (80,000 miles)	C, D, E, G, H, I, J
Transfer case oil (4WD)	R	Every 120,000 km (80,000 miles)	C, D, E, G, H, I, J
Propeller shaft (4WD)	I	Every 20,000 km (12,500 miles) or 12 months	C, E

Severe driving conditions

- A. Repeatedly driving short distance of less than 8 km (5 miles) in normal temperature or less than 16 km (10 miles) in freezing temperature
- B. Extensive engine idling or low speed driving for long distances
- C. Driving on rough, dusty, muddy, unpaved, graveled or salt spread roads
- D. Driving in areas using salt or other corrosive materials or in very cold weather
- E. Driving in heavy dust condition
- F. Driving in heavy traffic area
- G. Driving on uphill, downhill, or mountain roads repeatedly
- H. Using for towing or camping, and driving with loading on the roof
- I. Driving as patrol car, taxi, commercial car or vehicle towing
- J. Frequently driving under high speed or rapid acceleration
- K. Frequently driving in stop-and-go conditions and under 15,000 km per year.
- L. Engine oil usage which is not recommended(mineral, semi-synthetic, lower grade spec, etc)

**Normal Maintenance Schedule (except Europe)
Gasoline engine items**

MAINTENANCE ITEM	MAINTENANCE INTERVALS		12	24	36	48	60	72	84	96
	Months	Miles*1,000	10	20	30	40	50	60	70	80
	Km*1,000		15	30	45	60	75	90	105	120
Drive belts *1			I	I	I	I	I	I	I	I
Engine oil and engine oil filter *2 *3	For Middle East *5	Replace every 10,000 km (6,000 miles) or 12 months	R	R	R	R	R	R	R	R
Fuel additives *4	For Middle East *5	Add every 10,000 km (6,000 miles) or 12 months								
	Except middle East *5	Add every 15,000 km (10,000 miles) or 12 months								
Air cleaner filter	Except Middle East *5		I	I	R	I	I	R	I	I
	For Middle East *5		R	R	R	R	R	R	R	R

I : Inspect and if necessary, adjust, correct, clean or replace.

R : Replace or change.

*1: Inspect drive belt tensioner, idler and alternator pulley and if necessary correct or replace.

*2: Check the engine oil level and leak every 500 km (350 miles) or before starting a long trip.

*3: The engine oil level should be checked regularly and maintained properly. Operating with an insufficient amount of oil can damage the engine, and such damage is not covered by warranty.

*4 : If good quality gasolines meet Europe Fuel standards (EN228) or equivalents including fuel additives is not available, one bottle of additive is recommended. Additives are available from your authorized HYUNDAI dealer along with information on how to use them. Do not mix other additives.

*5: Middle East includes Iran, Libya, Algeria, Sudan, Morocco, Tunisia and Egypt.

Normal Maintenance Schedule (except Europe) (Cont.) Gasoline engine items

MAINTENANCE ITEM	MAINTENANCE INTERVALS		12	24	36	48	60	72	84	96
	Months	Miles*1,000	10	20	30	40	50	60	70	80
	Km*1,000		15	30	45	60	75	90	105	120
Spark plugs *6			Replace every 75,000 km (50,000 miles) or 60 months							
Vapor hose and fuel filler cap						I				I
Fuel tank air filter				I		R		I		R
Fuel lines, hoses and connections						I				I

I : Inspect and if necessary, adjust, correct, clean or replace.

R : Replace or change.

*6 : For your convenience, it can be replaced prior to it's interval when you do maintenance of other items.

* : The fuel filter is considered to be maintenance free but periodic inspection is recommended for this maintenance schedule depends on fuel quality. If there are some important safety matters like fuel flow restriction, surging, loss of power, hard starting problem etc, we recommend that you replace the fuel filter immediately regardless of maintenance schedule and consult an authorized HYUNDAI dealer for details.

Normal Maintenance Schedule (except Europe) (Cont.)
General items – for Gasoline

MAINTENANCE ITEM	MAINTENANCE INTERVALS		12	24	36	48	60	72	84	96
	Months	Miles*1,000	10	20	30	40	50	60	70	80
		Km*1,000	15	30	45	60	75	90	105	120
Cooling system	Inspect "Coolant level adjustment and leak" every day. At first, inspect 60,000 km (40,000 miles) or 48 months after that, inspect every 30,000 km (20,000 miles) or 24 months									
Engine coolant *1	At first, replace at 200,000 km (120,000 miles) or 120 months : after that, replace every 40,000 km (25,000 miles) or 24 months									
All electrical systems			I	I	I	I	I	I	I	I
Intercooler, in/out hose, air intake hose			Inspect every 15,000 km (10,000 miles)							
Battery condition	For Middle East		Inspect every 10,000 km (6,200 miles) or 6 months							
	Except Middle East		I	I	I	I	I	I	I	I
Pan-European eCall system battery (if equipped) / ERA-GLONASS system battery (if equipped)			Replace every 3 years							
Brake lines, hoses and connections			I	I	I	I	I	I	I	I
Parking brake				I		I		I		I
Brake/clutch fluid			I	I	R	I	I	R	I	I
Disc brakes and pads			I	I	I	I	I	I	I	I
Steering gear rack, linkage and boots			I	I	I	I	I	I	I	I
Driveshaft and boots				I		I		I		I

I : Inspect and if necessary, adjust, correct, clean or replace.
 R : Replace or change.

*1 : When adding coolant, use only deionized water or soft water for your vehicle and never mix hard water in the coolant filled at the factory. An improper coolant mixture can result in serious malfunction or engine damage. For your convenience, it can be replaced prior to it's interval when you do maintenance of other items.

Normal Maintenance Schedule (except Europe) (Cont.)

General items – for Gasoline

MAINTENANCE ITEM	MAINTENANCE INTERVALS		Months		Miles*1,000		Km*1,000		12		24		36		48		60		72		84		96		
			10	20	15	30	45	60	75	50	60	40	60	70	80	60	75	90	105	120	84	70	80	120	
Tire (pressure & tread wear)			I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	
Front suspension ball joints			I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	
Air conditioner refrigerant			I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	
Air conditioner compressor			I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	
Climate control air filter			R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	
Manual transmission fluid / Intelligent manual transmission fluid (if equipped) *2							I																	I	
Dual clutch transmission fluid (if equipped) *2																									I
Intelligent variable transmission fluid (if equipped)			No check, No service required																						
Valve clearance *3								I																	
Exhaust system			I			I		I																	I
Transfer case oil (4WD) *2																									I
Rear differential oil (4WD) *2																									I
Propeller shaft (4WD)			I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I

I : Inspect and if necessary, adjust, correct, clean or replace.

R : Replace or change.

*2: Manual transmission/dual clutch transmission fluid, transfer case oil and differential oil should be changed anytime they have been submerged in water.

*3: Inspect for excessive valve noise and/or engine vibration and adjust if necessary. We recommend that the system be checked by an authorized HYUNDAI dealer.

Maintenance Under Severe Usage and Low Mileage Conditions (Gasoline Engine, except Europe)

The following items must be serviced more frequently on cars mainly used under severe driving conditions.

Refer to the chart below for the appropriate maintenance intervals.

R : Replace I : Inspect and if necessary, adjust, correct, clean or replace

Maintenance item	Maintenance operation	Maintenance intervals	Driving condition
Engine oil and engine oil filter	R	5,000 km (3,000 miles) or 6 months	A, B, C, D, E, F, G, H, I, J, K, L
Air cleaner filter	R	Replace more frequently depending on the condition	C, E
Spark plugs	R	Replace more frequently depending on the condition	B, H
Steering gear rack, linkage and boots	I	Inspect more frequently depending on the condition	C, D, E, F, G
Front suspension ball joints	I	Inspect more frequently depending on the condition	C, D, E, F, G
Disc brakes and pads, calipers and rotors	I	Inspect more frequently depending on the condition	C, D, E, G, H
Parking brake	I	Inspect more frequently depending on the condition	C, D, G, H
Driveshaft and boots	I	Inspect more frequently depending on the condition	C, D, E, F, G, H, I, J

Maintenance item	Maintenance operation	Maintenance intervals	Driving condition
Climate control air filter	R	Replace more frequently depending on the condition	C, E, G
Manual transmission fluid/Intelligent manual transmission fluid	R	Every 120,000 km (80,000 miles)	C, D, E, F, G, H, I, J
Intelligent Variable Transmission Fluid	R	Every 90,000 km (60,000 miles)	A, C, D, E, F, G, H, I, K, J
Dual clutch transmission fluid	R	Every 120,000 km (80,000 miles)	C, D, E, F, G, H, I, J
Rear differential oil (4WD)	R	Every 120,000 km (80,000 miles)	C, D, E, G, H, I, J
Transfer case oil (4WD)	R	Every 120,000 km (80,000 miles)	C, D, E, G, H, I, J
Propeller shaft (4WD)	I	Every 20,000 km (12,500 miles) or 12 months	C, E

Severe driving conditions

- A. Repeatedly driving short distance of less than 8 km (5 miles) in normal temperature or less than 16 km (10 miles) in freezing temperature
- B. Extensive engine idling or low speed driving for long distances
- C. Driving on rough, dusty, muddy, unpaved, graveled or salt spread roads
- D. Driving in areas using salt or other corrosive materials or in very cold weather
- E. Driving in the heavy dust condition
- F. Driving in heavy traffic area
- G. Driving on uphill, downhill, or mountain roads repeatedly
- H. Towing a trailer, or using a camper or roof rack
- I. Driving as patrol car, taxi, commercial car or vehicle towing
- J. Driving over 170km/h (106mile/h) or frequent rapid acceleration/deceleration
- K. Frequently driving in stop-and-go conditions
- L. Engine oil usage which is not recommended (mineral, semi-synthetic, lower grade spec, etc.)

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 (cartridge)

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 an authorized HYUNDAI dealer.

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 an authorized HYUNDAI dealer.

Fuel filter (for gasoline)

HYUNDAI gasoline vehicle is equipped a lifetime fuel filter that integrated with the fuel tank. Regular maintenance or replacement is not needed but depends on fuel quality. If there are some important safety matters like fuel flow restriction, surging, loss of power, hard starting problem etc, fuel filter inspection or replace is needed. We recommend that the fuel filter be Inspected or replaced by an authorized HYUNDAI dealer.

Vapor hose and fuel filler cap

The vapor hose and fuel filler cap should be inspected at those intervals specified in the maintenance schedule. Make sure that a new vapor hose or fuel filler cap is correctly replaced.

Vacuum crankcase ventilation hoses (if equipped)

Inspect the surface of hoses for evidence of heat and/or mechanical damage. Hard and brittle rubber, cracking, tears, cuts, abrasions, and excessive swelling indicate deterioration. Particular attention should be paid to examine those hose surfaces nearest to high heat sources, such as the exhaust manifold.

Inspect the hose routing to ensure that the hoses do not come in contact with any heat source, sharp edges or moving component which might cause heat damage or mechanical wear. Inspect all hose connections, such as clamps and couplings, to make sure they are secure, and that no leaks are present. Hoses should be replaced immediately if there is any evidence of deterioration or damage.

Air cleaner filter

We recommend that the air cleaner filter be replaced by an authorized HYUNDAI dealer.

Spark plugs (for Gasoline Engine)

Make sure to install new spark plugs of the correct heat range.

When assembling parts, be sure to wipe out foreign substances inside and outside of the boot bottom of the ignition coil and the insulator of the spark plug with a soft cloth to prevent contamination of the spark plug insulator.



WARNING

Do not disconnect and inspect spark plugs when the engine is hot. You may burn yourself.

Valve clearance (for Gasoline Engine)

Inspect excessive valve noise and/or engine vibration and adjust if necessary. We recommend that the system be serviced by an authorized HYUNDAI dealer.

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.

Manual transmission fluid (if equipped)

Inspect the manual transmission fluid according to the maintenance schedule.

Intelligent manual transmission fluid (if equipped)

Intelligent manual transmission fluid should not be checked under normal usage conditions.

We recommend that the Intelligent manual transmission fluid is changed by an authorized HYUNDAI dealer according to the maintenance schedule.

Intelligent manual transmission fluid (if equipped)

Intelligent variable transmission fluid should not be checked under normal usage conditions.

We recommend that the Intelligent manual transmission fluid is changed by an authorized HYUNDAI dealer 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 (if equipped)

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.

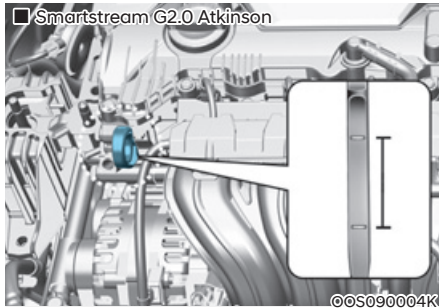
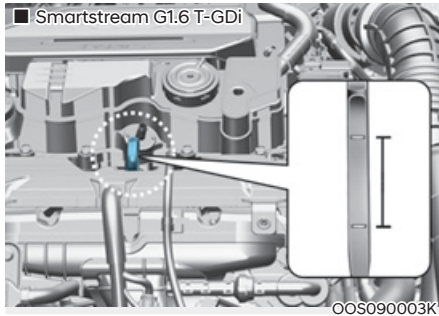
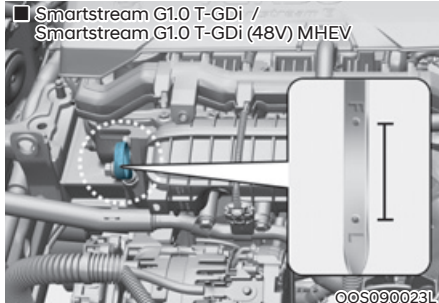
Replace any damaged parts and, if necessary, repack the grease.

Air conditioning refrigerant/compressor

Check the air conditioning lines and connections for leakage and damage.

ENGINE OIL

Checking the engine oil level (Gasoline engine)



1. Be sure the vehicle is on level ground.
2. Start the engine and allow it to reach normal operating temperature.
3. Turn the engine off and wait for a few minutes (about 15 minutes) for the oil to return to the oil pan.
4. Pull the dipstick out, wipe it clean, and re-insert it fully.

5. Pull the dipstick out again and check the level. The level should be between F (Full) and L (Low).
6. If it is near or at L, add enough oil to bring the level to F.

WARNING

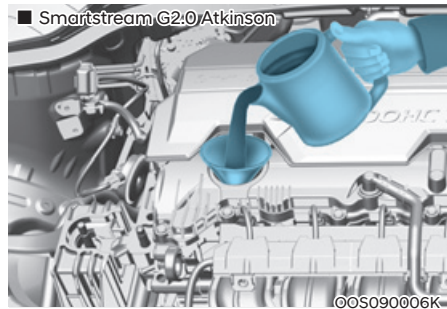
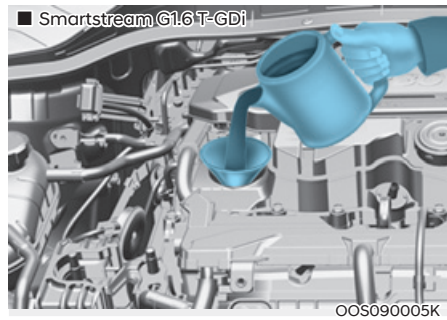
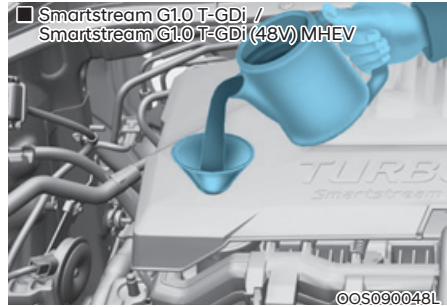
Radiator hose

Be very careful not to touch the radiator hose when checking or adding the engine oil as it may be hot enough to burn you.

NOTICE

- Do not overfill the engine oil. It may damage the engine.
- Do not spill engine oil, when adding or changing engine oil. If you drop the engine oil on the engine room, wipe it off immediately.
- When you wipe the oil dipstick, you should wipe it with a clean cloth. When mixed with debris, it can cause engine damage.
- Oil consumption may increase while you break in a new vehicle and it will be stabilized after driving 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.
- The engine oil change interval is set for the purpose of preventing oil deterioration, and is not related to the amount of oil consumption; so, check and refill the amount of the oil regularly.
- If exceeding the maintenance schedule for replacement of engine oil, the engine oil performance may deteriorate and the engine condition may be affected. Therefore, the replacement cycle should be observed.

- To keep the engine in optimal condition, use recommended engine oil. If not using the recommended oil, replace it according to the severe usage maintenance conditions.



Use only the specified engine oil.

(Refer to “Recommended lubricants and capacities” in chapter 2.)

Checking the engine oil level (Diesel engine)

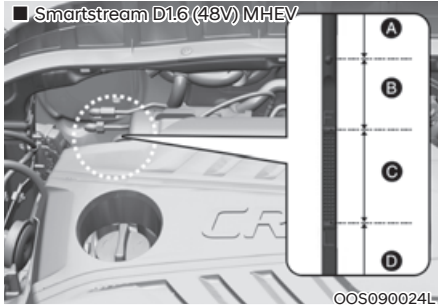


Figure	Required action
Range (A)	Recommend to contact an authorized HYUNDAI dealer.
Range (B)	Do not refill engine oil.
Range (C)	Normal. You may add engine oil as long as the oil level does not go above the C range.
Range (D)	You must add oil and make sure that the oil level is in the C Range.

1. Be sure the vehicle is on level ground.
2. Start the engine and allow it to reach normal operating temperature.
3. Turn the engine off and wait for a few minutes (about 15 minutes) for the oil to return to the oil pan.
4. Pull the dipstick out, wipe it clean, and re-insert it fully.
5. Pull the dipstick out again and check the level.
6. The level should be in the C range. If the level is in the D range, add enough engine oil to bring the level up to the C range.

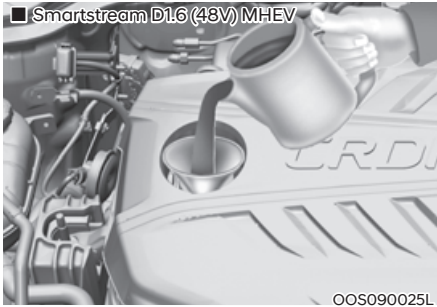
WARNING

Radiator hose

Be very careful not to touch the radiator hose when checking or adding the engine oil as it may be hot enough to burn you.

NOTICE

- Do not spill engine oil, when adding or changing engine oil. If you drop the engine oil on the engine room, wipe it off immediately.
- When you wipe the oil level gauge, you should wipe it with a clean cloth. When mixed with debris, it can cause engine damage.
- Oil consumption may increase while you break in a new vehicle and it will be stabilized after driving 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.
- The engine oil change interval is set for the purpose of preventing oil deterioration, and is not related the amount of oil consumption; so, check and refill the amount of the oil regularly.
- If exceeding the maintenance schedule for replacement of engine oil, the engine oil performance may deteriorate and the engine condition may be affected. Therefore, the replacement cycle should be observed.
- To keep the engine in optimal condition, use recommended engine oil. If not using the recommended oil, replace it according to the every 20,000km or 12months maintenance conditions.



If it is near or at L, add enough oil to bring the level to F. Do not overfill.

Use only the specified engine oil.

(Refer to “Recommended lubricants and capacities” in chapter 2.)

Checking the engine oil and filter



We recommend that the engine oil and filter be replaced by an authorized HYUNDAI dealer.



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.**
- **If the oil pressure lowers due to insufficient engine oil, etc., the engine oil pressure warning light turns on and an enhanced engine protection system that limits the engine's power is activated. After that, engine warning light turns on if driving repeatedly and continuously. When oil pressure is restored to an optimal level, the oil pressure warning light and the protection system that limits engine power will turn off.**

ENGINE COOLANT

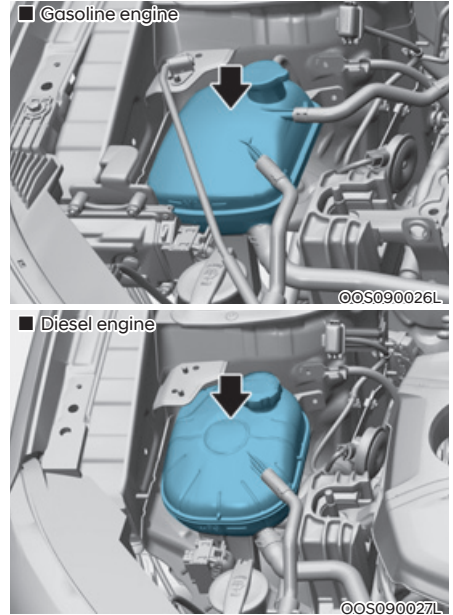
The high-pressure cooling system has a reservoir filled with year-round antifreeze coolant. The reservoir is filled at the factory.

Check the antifreeze protection and coolant concentration level at least once a year, at the beginning of the winter season, and before traveling 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

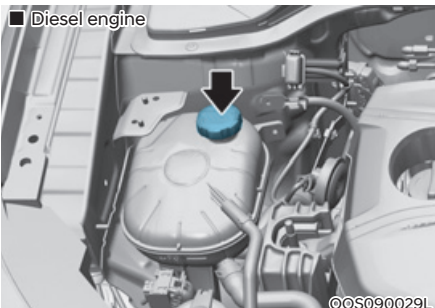
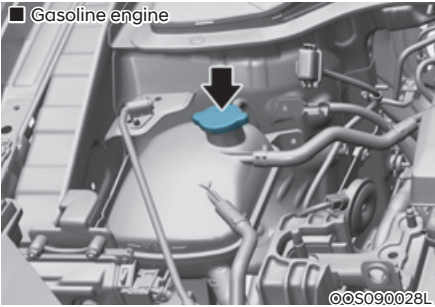


Check the condition and connections of all cooling system hoses and heater hoses. Replace any swollen or deteriorated hoses.

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 an authorized HYUNDAI dealer.



 **WARNING**



Never remove the coolant cap/radiator cap or the drain plug while the engine and radiator are hot. Hot coolant and steam may blow out under pressure, causing serious injury.

Turn the engine off and wait until the engine cools down. Use extreme care when removing the coolant cap/radiator cap. Wrap a thick towel around it, and turn it counterclockwise slowly to the first stop. Step back while the pressure is released from the cooling system. When you are sure all the pressure has been released, press down on the cap, using a thick towel, and continue turning counterclockwise to remove it.

 **WARNING**



The electric motor for the cooling fan may continue to operate or start up when the 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 T-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 aluminum 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.

Changing the engine coolant

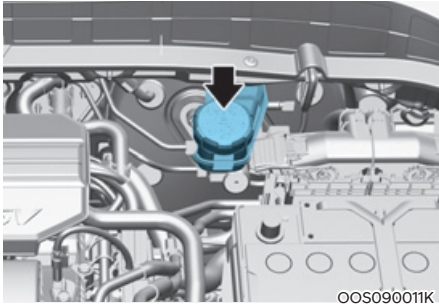
We recommend that coolant be changed by an authorized HYUNDAI dealer according to the Maintenance Schedule at the beginning of this chapter.

NOTICE

To prevent damage to engine parts, put a thick towel around the radiator cap and/or radiator 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 an authorized HYUNDAI dealer.

i Information

Use only the specified brake/clutch fluid. Refer to “Recommended lubricants and capacities” in chapter 2.

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 an authorized HYUNDAI dealer.

! WARNING

Do not allow brake/clutch fluid to come in contact with your eyes. If brake/clutch fluid comes in contact with your eyes, flush your eyes with clean water for at least 15 minutes and get immediate medical attention.

NOTICE

- Do not allow brake/clutch fluid to contact the vehicle's body paint, as paint damage will result.
- Brake/clutch fluid, which has been exposed to open air for an extended time should never be used as its quality cannot be guaranteed. It should be disposed of properly.
- Don't put in the wrong kind of fluid. A few drops of mineral-based oil, such as engine oil, in your brake/clutch system can damage system parts.

INTELLIGENT MANUAL TRANSMISSION(IMT) SYSTEM ACTUATOR FLUID (IF EQUIPPED)

Checking the iMT system actuator fluid level

In normal driving conditions, the actuator fluid level does not go down rapidly.

However, oil consumption rate may rise as vehicle mileage increases, and leakage in actuator related parts may result in increased consumption of the iMT system actuator oil. Regularly check and make sure the iMT system actuator oil fluid level is between MIN and MAX marks.

If the oil level is below MIN mark, have the vehicle checked by a professional workshop. We recommend that you contact an authorized HYUNDAI dealer/ service partner.

Use only the specified iMT system actuator fluid. (Refer to Recommended lubricants or capacities.) Never mix different types of fluid.

NOTICE

Loss of iMT system actuator fluid

In the event the iMT system actuator requires frequent additions of fluid, have the system inspected by a professional workshop.

We recommend that you contact an authorized HYUNDAI dealer.

NOTICE

iMT system actuator fluid

When changing and adding iMT system actuator fluid, handle it carefully.

Do not let it come in contact with your eyes.

If iMT system actuator fluid should come in contact with your eyes, immediately flush them with a large quantity of fresh tap water.

Have your eyes examined by a doctor as soon as possible.



CAUTION

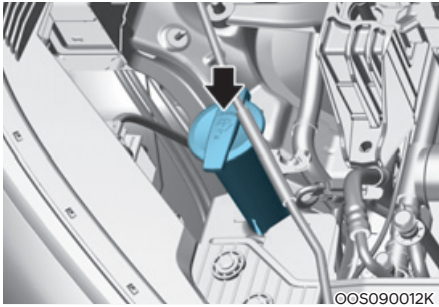
Do not allow iMT system actuator fluid to contact the vehicle's body paint, as paint damage will result.

The iMT system actuator fluid, which has been exposed to open air for an extended time should never be used as its quality cannot be guaranteed. It should be properly disposed.

Don't put in the wrong kind of fluid. A few drops of mineral based oil, such as engine oil, in your iMT system actuator can damage iMT system actuator parts.

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.



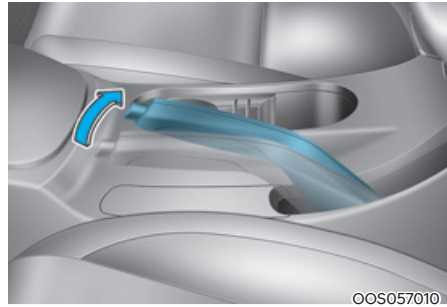
WARNING

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 while 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 an authorized HYUNDAI dealer.

Stroke : 5~7 “clicks” at a force of 20 kg (44 lbs, 196 N).

FUEL FILTER (FOR DIESEL)

Draining water from fuel filter

The fuel filter in the diesel engine operates the critical function of separating water from the fuels and preventing accumulating of water in the base.

When enough water is accumulated inside the fuel filter, the warning light (⚡) illuminates with the ignition switch in the ON position.

In this case, we recommend you to have the system checked by an authorized HYUNDAI dealer.

NOTICE

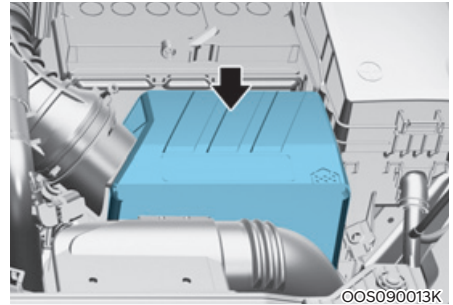
When the accumulated water is not drained at the proper timing, water may permeate in the fuel filter, damaging the major vehicle components, such as the fuel system.

Fuel filter cartridge replacement

We recommend the fuel filter cartridge be replaced by an authorized HYUNDAI dealer according to the Maintenance Schedule at the beginning of this chapter.

AIR CLEANER

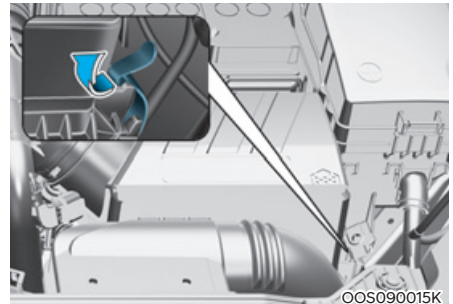
Filter replacement



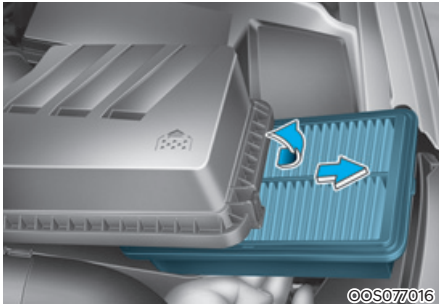
The air cleaner filter can be cleaned for inspection using compressed air.

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. Wipe the inside of the air cleaner.
3. Replace the air cleaner filter.
4. Lock the cover with the cover attaching clips.
5. Check that the cover is firmly installed.

i Information

If the vehicle is operated in extremely dusty or sandy areas, replace the element more often than the usual recommended intervals (refer to “Maintenance Under Severe Usage Conditions” in chapter 9).

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 or the equivalent specified for your vehicle. Use of parts without the matching quality could damage the air flow sensor.

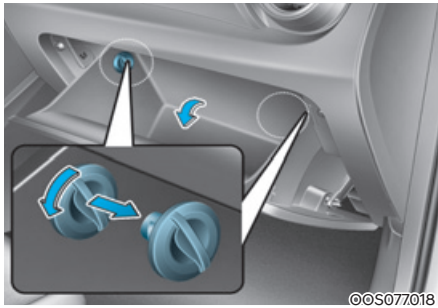
CLIMATE CONTROL AIR FILTER

Filter inspection

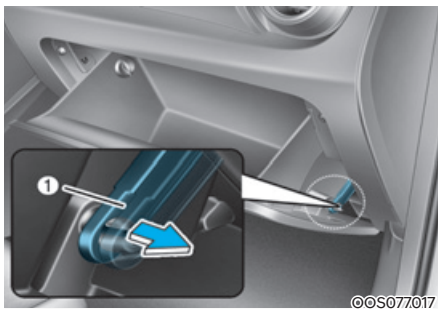
If the vehicle is operated in the severely air-polluted cities or on dusty rough roads for a long period, it should be inspected more frequently and replaced earlier. When you, the owner, replace the climate control air filter, replace it performing the following procedure, and be careful to avoid damaging other components.

Replace the filter according to the Maintenance Schedule.

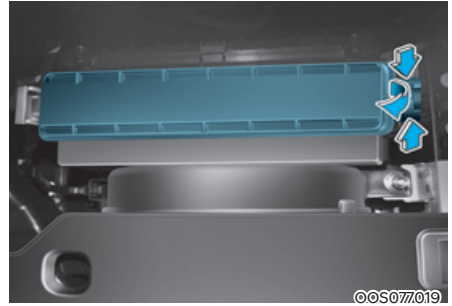
Filter replacement



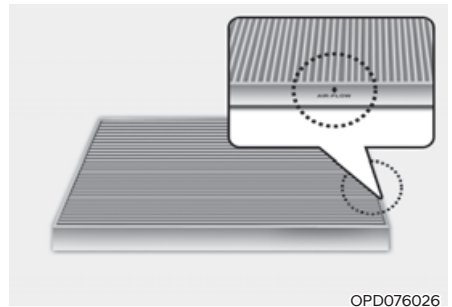
1. With the glove box open, remove the stoppers on both sides.



2. Remove the support strap (1).



3. Remove the climate control air filter case while pressing the lock on the right side of the cover.



4. Replace the climate control air filter.
5. Reassemble in the reverse order of disassembly.

NOTICE

Install a new climate control air filter in the correct direction with the arrow symbol (↴) facing downwards, otherwise, it may be noisy and the effectiveness of the filter may be reduced.

WIPER BLADES

Blade inspection

Contamination of either the windshield or the wiper blades with foreign matter can reduce the effectiveness of the windshield wipers.

Common sources of contamination are insects, tree sap, and hot wax treatments used by some commercial car washes. If the blades are not wiping properly, clean both the window and the blades with a good cleaner or mild detergent, and rinse thoroughly with clean water.

NOTICE

To prevent damage to the wiper blades, arms or other components, do not:

- Use gasoline, kerosene, paint thinner, or other solvents on or near them.
- Attempt to move the wipers manually.
- Use non-specified wiper blades.

i Information

Commercial hot waxes applied by automatic car washes have been known to make the windshield difficult to clean.

i Information

Wiper blades are a 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

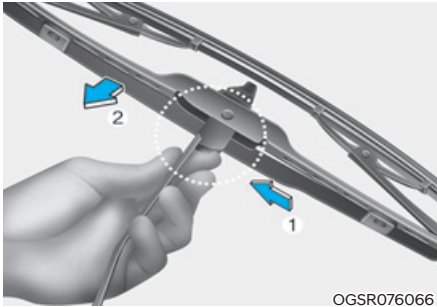
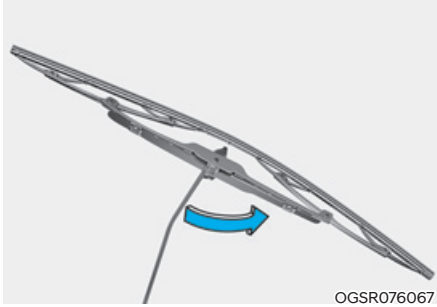
To prevent damage to the wiper arms or other components, do not attempt to move the wipers manually.

NOTICE

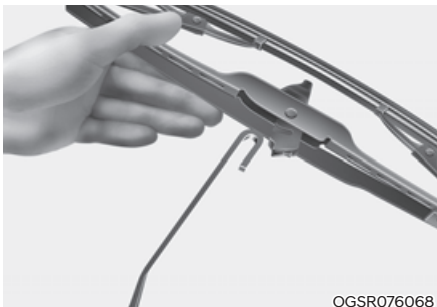
The use of a non-specified wiper blade could result in wiper malfunction and failure.

NOTICE

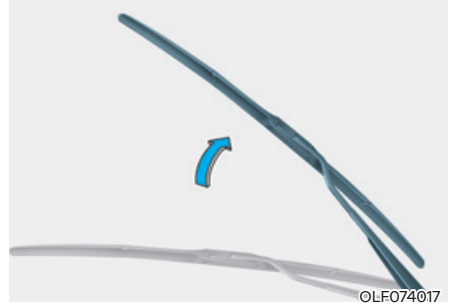
- In order to prevent damage to the hood and the wiper arms, the wiper arms should only be lifted when in the top wiping position.
- Always return the wiper arms to the windshield before driving.

Type A

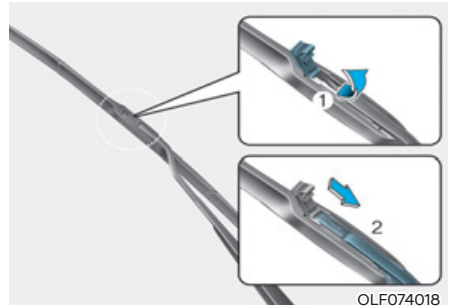
1. Lift up the wiper blade clip. Then lift up the wiper blade.
2. While pushing the lock (1), pull down the wiper blade (2).



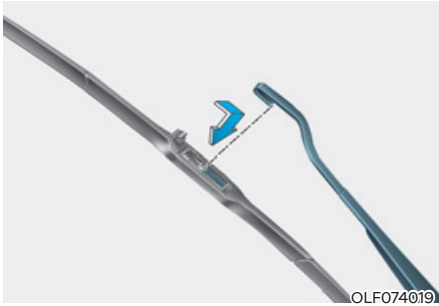
3. Remove the wiper blade from the wiper arm.
4. Install a new wiper blade assembly in the reverse order of removal.
5. Return the wiper arm on the windshield.

Type B

1. Raise the wiper arm.

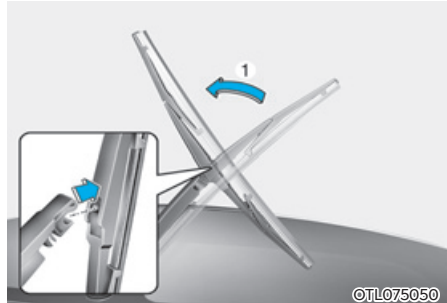


2. Lift up the wiper blade clip. Then pull down the blade assembly and remove it.

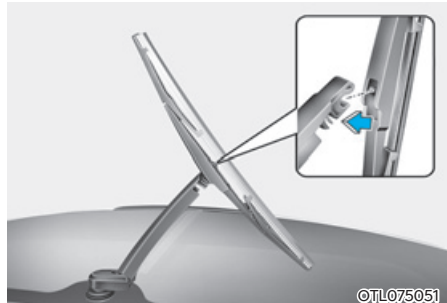


3. Install the new blade assembly in the reverse order of removal.
4. Return the wiper arm on the windshield.

Rear window wiper blade



1. Raise the wiper arm and pull out the wiper blade assembly.



2. Install the new blade assembly by inserting the center 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 an authorized HYUNDAI dealer.

BATTERY



WARNING

To prevent **SERIOUS INJURY** or **DEATH** to you or bystanders, always follow these precautions when working near or handling the battery:



Always read and follow instructions carefully when handling a battery.



Wear eye protection designed to protect the eyes from acid splashes.



Keep all flames, sparks, or smoking materials away from the battery.



Hydrogen is always present in battery cells, is highly combustible, and may explode if ignited.



Keep batteries out of reach of children.



Batteries contain sulfuric acid which is highly corrosive. Do not allow acid to contact your eyes, skin or clothing.

If acid gets into your eyes, flush your eyes with clean water for at least 15 minutes and get immediate medical attention. If acid gets on your skin, thoroughly wash the area. If you feel pain or a burning sensation, get medical attention immediately.

- When lifting a plastic-cased battery, excessive pressure on the case may cause battery acid to leak. Lift with a battery carrier or with your hands on opposite corners.
- Do not attempt to jump start your vehicle if your battery is frozen.
- **NEVER** attempt to recharge the battery when the vehicle's battery cables are connected to the battery.
- The electrical ignition system works with high voltage. **NEVER** touch these components with the engine running or when the ignition switch is in the ON position.

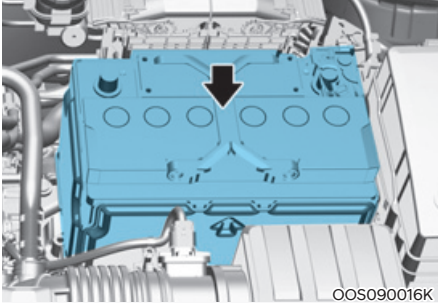
NOTICE

- When you do not use the vehicle for a long time in a low temperature area, disconnect the battery and keep it indoors.
- Always charge the battery fully to prevent battery case damage in low temperature areas.

NOTICE

If you connect unauthorized electronic devices to the battery, the battery may be discharged. Never use unauthorized devices.

For best battery service

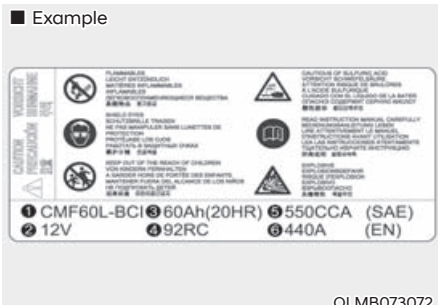


OOS090016K

- 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

■ Example



OLMB073072

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 while 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 while the vehicle is being used, recharge it at 20-30A for two hours.

WARNING

Always follow these instructions when recharging your vehicle's battery to avoid the risk of **SERIOUS INJURY** or **DEATH** from explosions or acid burns:

- Before performing maintenance or recharging the battery, turn off all accessories and 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.
- 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 or the equivalent specified for your vehicle 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 an authorized HYUNDAI dealer. 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 an authorized HYUNDAI dealer.
- 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 of 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
- Clock
- Audio system

TIRES AND WHEELS



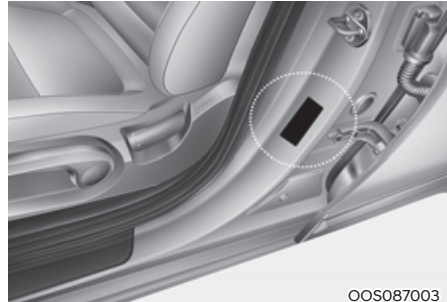
WARNING

Tire failure may cause loss of vehicle control resulting in an accident. To reduce risk of **SERIOUS INJURY** or **DEATH**, take the following precautions:

- Inspect your tires monthly for proper inflation as well as wear and damage.
- The recommended cold tire pressure for your vehicle can be found in this manual and on the tire label located on the driver's side center pillar. Always use a tire pressure gauge to measure tire pressure. Tires with too much or too little pressure wear unevenly causing poor handling.
- Check the pressure of the spare every time you check the pressure of the other tires on your vehicle.
- Replace tires that are worn, show uneven wear, or are damaged. Worn tires can cause loss of braking effectiveness, steering control, or traction.
- **ALWAYS** replace tires with the same size as each tire that was originally supplied with this vehicle. Using tires and wheels other than the recommended sizes could cause unusual handling characteristics, poor vehicle control, or negatively affect your vehicle's Anti-Lock Brake System (ABS) resulting in a serious accident.

Tire care

For proper maintenance, safety, and maximum fuel economy, you must always maintain recommended tire inflation pressures and stay within the load limits and weight distribution recommended for your vehicle.



All specifications (sizes and pressures) can be found on a label attached to the driver's side center pillar.

Recommended cold tire inflation pressures

All tire pressures (including the spare) should be checked when the tires are cold. "Cold tires" means the vehicle has not been driven for at least three hours or has been driven for less than 1.6 km (1 mile).

Warm tires normally exceed recommended cold tire pressures by 28 to 41 kPa (4 to 6 psi). Do not release air from warm tires to adjust the pressure or the tires will be under-inflated. For recommended inflation pressure, refer to "Tire and Wheels" in chapter 2.



WARNING

Recommended pressures must be maintained for the best ride, vehicle handling, and minimum tire wear.

Over-inflation or under-inflation can reduce tire life, adversely affect vehicle handling, and lead to sudden tire failure that could result in loss of vehicle control resulting in an accident.

Severe under-inflation can lead to severe heat build-up, causing blowouts, tread separation and other tire failures that can result in the loss of vehicle control resulting in an accident. This risk is much higher on hot days and when driving for long periods at high speeds.



CAUTION

- **Under-inflation results in excessive wear, poor handling and reduced fuel economy. Wheel deformation is also possible. Keep your tire pressures at the proper levels. If a tire frequently needs refilling, we recommend it be checked by an authorized HYUNDAI dealer.**
- **Over-inflation produces a harsh ride, excessive wear at the center of the tire tread, and a greater possibility of damage from road hazards.**

Check tire inflation pressure

Check your tires, including the spare tire, once a month or more.

How to check

Use a good quality tire pressure gauge to check tire pressure. You can not tell if your tires are properly inflated simply by looking at them. Radial tires may look properly inflated when they are under-inflated.

Remove the valve cap from the tire valve stem. Press the tire gauge firmly onto the valve to get a pressure measurement. If the cold tire inflation pressure matches the recommended pressure on the tire and loading information label, no further adjustment is necessary. If the pressure is low, add air until you reach the recommended pressure. Make sure to put the valve caps back on the valve stems. Without the valve cap, dirt or moisture could get into the valve core and cause air leakage. If a valve cap is missing, install a new one as soon as possible.

If you overfill the tire, release air by pushing on the metal stem in the center of the tire valve. Recheck the tire pressure with the tire gauge. Be sure to put the valve caps back on the valve stems. Without the valve cap, dirt or moisture could get into the valve core and cause air leakage. If a valve cap is missing, install a new one as soon as possible.

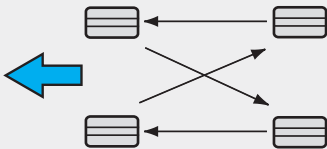
Tire rotation

To equalize tread wear, HYUNDAI recommends that the tires be rotated every 12,000 km (7,500 miles) or sooner if irregular wear develops.

During rotation, check the tires for correct balance.

When rotating tires, check for uneven wear and damage. Abnormal wear is usually caused by incorrect tire pressure, improper wheel alignment, out-of-balance wheels, severe braking or severe cornering. Look for bumps or bulges in the tread or side of the tire. Replace the tire if you find any of these conditions. Replace the tire if fabric or cord is visible. After rotation, be sure to bring the front and rear tire pressures to specification and check lug nut tightness (proper torque is 11-13 kgf·m [79~94 lbf·ft]).

■ Without a spare tire



ODH073802

Disc brake pads should be inspected for wear whenever tires are rotated.

i Information

The outside and inside of the unsymmetrical tire is distinguishable. When installing an unsymmetrical tire, be sure to install the side marked “outside” facing the outside. If the side marked “inside” is installed on the outside, it will have a negative effect on vehicle performance.

! WARNING

- Do not use the compact spare tire for tire rotation.
- Do not mix bias ply and radial ply tires under any circumstances. This may cause unusual handling characteristics that may cause loss of vehicle control resulting in an accident.

Wheel alignment and tire balance

The wheels on your vehicle were aligned and balanced carefully at the factory to give you the longest tire life and best overall performance.

In most cases, you will not need to have your wheels aligned again. However, if you notice unusual tire wear or your vehicle pulling one way or the other, the alignment may need to be reset.

If you notice your vehicle vibrating when driving on a smooth road, your wheels may need to be rebalanced.

NOTICE

Incorrect wheel weights can damage your vehicle’s aluminum wheels. Use only approved wheel weights.

Tire replacement



[A] : Tread wear indicator

If the tire is worn evenly, a tread wear indicator will appear as a solid band across the tread. This shows there is less than 1.6 mm (1/16 in.) of tread left on the tire. Replace the tire when this happens.

Do not wait for the band to appear across the entire tread before replacing the tire.



WARNING

To reduce the risk of **DEATH** or **SERIOUS INJURY**:

- **Replace tires that are worn, show uneven wear, or are damaged. Worn tires can cause loss of braking effectiveness, steering control, and traction.**
- **Always replace tires with the same size as each tire that was originally supplied with this vehicle. Using tires and wheels other than the recommended sizes could cause unusual handling characteristics, poor vehicle control, or negatively affect your vehicle's Anti-Lock Brake System (ABS) resulting in a serious accident.**

- **When replacing tires (or wheels), it is recommended to replace the two front or two rear tires (or wheels) as a pair. Replacing just one tire can seriously affect your vehicle's handling. If only replacing one pair of tires, it is recommended to install the pair of new tires on the rear axle.**
- **Tires degrade over time, even when they are not being used. Regardless of the remaining tread, HYUNDAI recommends that tires be replaced after six (6) years of normal service.**
- **Heat caused by hot climates or frequent high loading conditions can accelerate the aging process. Failure to follow this warning may cause sudden tire failure, which could lead to a loss of vehicle control resulting in an accident.**

Compact spare tire replacement (if equipped)

A compact spare tire has a shorter tread life than a regular size tire. Replace it when you can see the tread wear indicator bars on the tire. The replacement compact spare tire should be the same size and design tire as the one provided with your new vehicle and should be mounted on the same compact spare tire wheel. The compact spare tire is not designed to be mounted on a regular size wheel, and the compact spare tire wheel is not designed for mounting a regular size tire.



WARNING

The original tire should be repaired or replaced as soon as possible to avoid failure of the spare and loss of vehicle control resulting in an accident. The compact spare tire is for emergency use only. Do not operate your vehicle over 80 km/h (50 mph) when using the compact spare tire.

Wheel replacement

When replacing the metal wheels for any reason, make sure the new wheels are equivalent to the original factory units in diameter, rim width and offset.

Tire traction

Tire traction can be reduced if you drive on worn tires, tires that are improperly inflated or on slippery road surfaces. Tires should be replaced when tread wear indicators appear. To reduce the possibility of losing control, slow down whenever there is rain, snow or ice on the road.

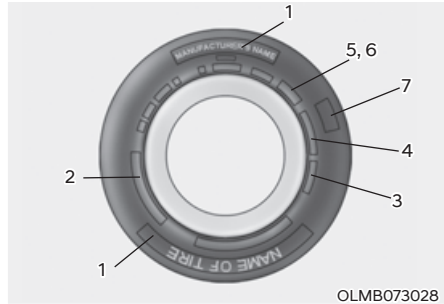
Tire maintenance

In addition to proper inflation, correct wheel alignment helps to decrease tire wear. If you find a tire is worn unevenly, have your dealer check the wheel alignment.

When you have new tires installed, make sure they are balanced. This will increase vehicle ride comfort and tire life. Additionally, a tire should always be rebalanced if it is removed from the wheel.

Tire sidewall labeling

This information identifies and describes the fundamental characteristics of the tire and also provides the tire identification number (TIN) for safety standard certification. The TIN can be used to identify the tire in case of a recall.



1. Manufacturer or brand name

Manufacturer or brand name is shown.

2. Tire size designation

A tire's sidewall is marked with a tire size designation. You will need this information when selecting replacement tires for your car. The following explains what the letters and numbers in the tire size designation mean.

Example tire size designation:

(These numbers are provided as an example only; your tire size designator could vary depending on your vehicle.)

205/60R16 92H

205 - Tire width in millimeters.

60 - Aspect ratio. The tire's section height as a percentage of its width.

R - Tire construction code (Radial).

16 - Rim diameter in inches.

92 - Load Index, a numerical code associated with the maximum load the tire can carry.

H - Speed Rating Symbol. See the speed rating chart in this section for additional information.

Wheel size designation

Wheels are also marked with important information that you need if you ever have to replace one. The following explains what the letters and numbers in the wheel size designation mean.

Example wheel size designation:

6.5JX16

6.5 - Rim width in inches.

J - Rim contour designation.

16 - Rim diameter in inches.

Tire speed ratings

The chart below lists many of the different speed ratings currently being used for passenger vehicle tires. The speed rating is part of the tire size designation on the sidewall of the tire. This symbol corresponds to that tire's designed maximum safe operating speed.

Speed Rating Symbol	Maximum Speed
S	180 km/h (112 mph)
T	190 km/h (118 mph)
H	210 km/h (130 mph)
V	240 km/h (149 mph)
W	270km/h (168mph)
Y	300km/h (186mph)

3. Checking tire life (TIN : Tire Identification Number)

Any tires that are over six years old, based on the manufacturing date, (including the spare tire) should be replaced by new ones. You can find the manufacturing date on the tire sidewall (possibly on the inside of the wheel), displaying the DOT Code. The DOT Code is a series of numbers on a tire consisting of numbers and English letters. The manufacturing date is designated by the last four digits (characters) of the DOT code.

DOT : XXXX XXXX OOOO

The front part of the DOT shows a plant code number, tire size and tread pattern and the last four numbers indicate week and year manufactured.

For example:

DOT XXXX XXXX 1521 represents that the tire was produced in the 15th week of 2021.

4. Tire ply composition and material

The number of layers or plies of rubber-coated fabric in the tire. Tire manufacturers also must indicate the materials in the tire, which include steel, nylon, polyester, and others. The letter "R" means radial ply construction; the letter "D" means diagonal or bias ply construction; and the letter "B" means belted-bias ply construction.

5. Maximum permissible inflation pressure

This number is the greatest amount of air pressure that should be put in the tire. Do not exceed the maximum permissible inflation pressure. Refer to the Tire and Loading Information label for recommended inflation pressure.

6. Maximum load rating

This number indicates the maximum load in kilograms and pounds that can be carried by the tire. When replacing the tires on the vehicle, always use a tire that has the same load rating as the factory installed tire.

7. Uniform tire quality grading

Quality grades can be found where applicable on the tire sidewall between tread shoulder and maximum section width.

For example:

TREAD WEAR 200
TRACTION AA
TEMPERATURE A

Tread wear

The tread wear grade is a comparative rating based on the wear rate of the tire when tested under controlled conditions on a specified government test course. For example, a tire graded 150 would wear one-and-a-half times (1½) as well on the government course as a tire graded 100.

The relative performance of tires depends upon the actual conditions of their use, however, and may depart significantly from the norm due to variations in driving habits, service practices and differences in road characteristics and climate.

These grades are molded on the sidewalls of passenger vehicle tires. The tires available as standard or optional equipment on your vehicle may vary with respect to grade.

Traction - AA, A, B & C

The traction grades, from highest to lowest, are AA, A, B and C. Those grades represent the tire's ability to stop on wet pavement as measured under controlled conditions on specified government test surfaces of asphalt and concrete. A tire marked C may have poor traction performance.

**WARNING**

The traction grade assigned to this tire is based on straight-ahead braking traction tests, and does not include acceleration, cornering, hydroplaning, or peak traction characteristics.

Temperature - A, B & C

The temperature grades are A (the highest), B and C representing the tire's resistance to the generation of heat and its ability to dissipate heat when tested under controlled conditions on a specified indoor laboratory test wheel.

Sustained high temperature can cause the material of the tire to degenerate and reduce tire life, and excessive temperature can lead to sudden tire failure. Grades B and A represent higher levels of performance on the laboratory test wheel than the minimum required by law.

**WARNING**

The temperature grade for this tire is established for a tire that is properly inflated and not overloaded. Excessive speed, under-inflation, over-inflation, or excessive loading, either separately or in combination, can cause heat build-up and possible sudden tire failure. This may cause loss of vehicle control resulting in an accident.

Low aspect ratio tires

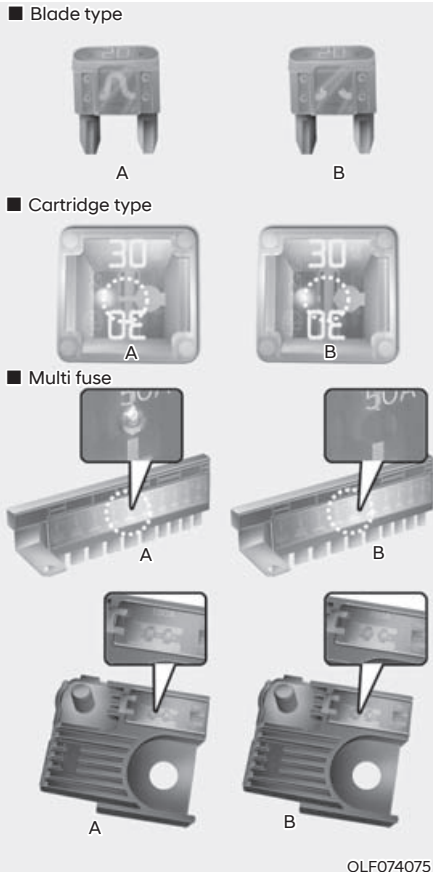
A low aspect ratio tire, of which the aspect ratio is lower than 50, is designed for a sporty-look vehicle. The low aspect ratio is to optimize handling and braking. Thus, it may be uncomfortable to ride and it may generate noises, in comparison with a normal tire.

**CAUTION**

The side wall of a low aspect ratio tire is shorter than the normal one. Thus, the low-aspect wheel and tire are easily damaged. Follow the below instructions.

- When driving on a rough road or driving off a road, be careful not to damage the tires and wheels. After driving, inspect the tires and wheels.
- When passing over a pothole, speed bump, manhole, or curb stone, slowly drive the vehicle not to damage the tires and wheels.
- When there is an impact on a tire, inspect the tire condition, or we recommend to contact an authorized HYUNDAI dealer.
- Inspect the tire condition and pressure every 3,000 km (1,800 miles) to prevent a tire damage.
- It is difficult to recognize a tire damage only with your eyes. When there is a slight hint of a tire damage, check and replace the tire to prevent the damage caused by air leakage.
- When a tire is damaged while driving on a rough road, off a road, or over obstacles, such as a pothole, manhole, or curb stone, your warranty does not cover the damage.
- The tire information is specified on the tire side wall.

FUSES



[A] : Normal, [B] : Blown

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. We recommend that you immediately consult an authorized HYUNDAI dealer.

Information

Three kinds of fuses are used: blade type for lower amperage rating, cartridge type, and multi fuse for higher amperage ratings.

WARNING

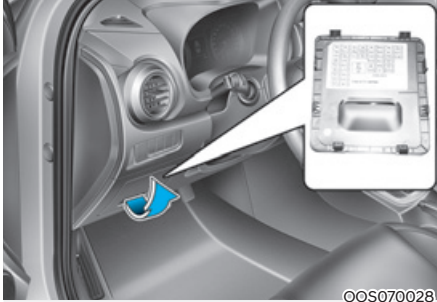
NEVER replace a fuse with anything but another fuse of the same rating.

- A higher capacity fuse could cause damage and possibly cause a fire.
- Do not install a wire or aluminum foil instead of the proper fuse - even as a temporary repair. It may cause extensive wiring damage and possibly a fire.

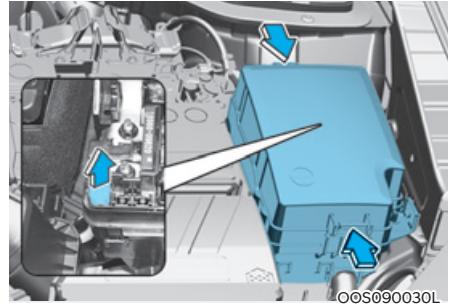
NOTICE

Do not use a screwdriver or any other metal object to remove fuses because it may cause a short circuit and damage the system.

Instrument panel fuse replacement



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, we recommend to have the system checked by an authorized HYUNDAI dealer.

In an emergency, if you do not have a spare fuse, use a fuse of the same rating from a circuit you may not need for operating the vehicle, such as the cigarette lighter fuse.

If the headlamps or other electrical components do not work and the fuses are undamaged, check the fuse panel in the engine compartment. If a fuse is blown, it must be replaced with the same rating.

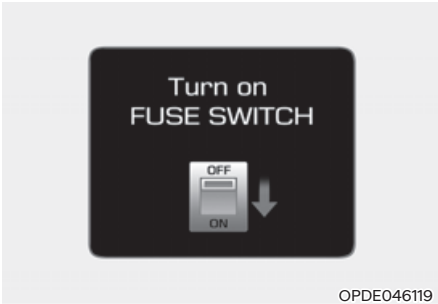
Fuse switch



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.

i Information

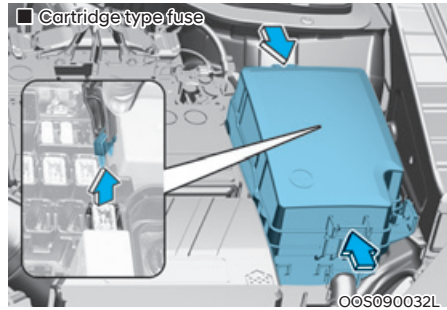
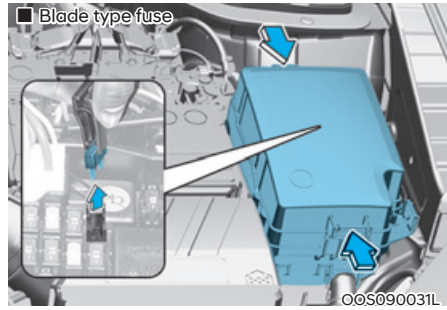


If the fuse switch is OFF, “Turn on FUSE SWITCH” message will appear. (if equipped)

NOTICE

- Always place the fuse switch in the ON position while driving the vehicle.
- Do not move the transportation fuse switch repeatedly. The fuse switch may be damaged.

Engine compartment panel fuse replacement

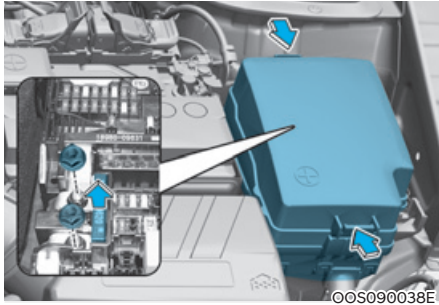


1. Turn the vehicle off.
2. Turn all other switches OFF.
3. Remove the fuse panel cover by pressing the tab and pulling up.
4. Check the removed fuse; replace it if it is blown. To remove or insert the fuse, use the fuse puller in the engine compartment fuse panel.
5. Push in a new fuse of the same rating, and make sure it fits tightly in the clips. If it fits loosely, we recommend to have the system checked by an authorized HYUNDAI dealer.

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

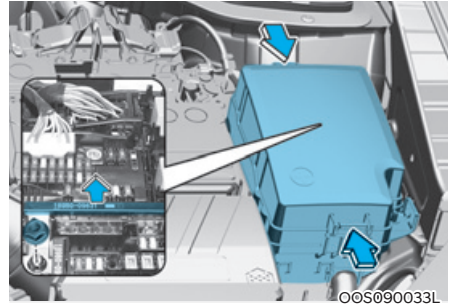


1. Turn the engine off.
2. Turn all other switches off.
3. Remove the fuse panel cover by pressing the tab and pulling it up.
4. Remove the nuts shown in the picture above.
5. Replace the fuse with a new one of the same rating.
6. Reinstall in the reverse order of removal.

i Information

If the main fuse is blown, we recommend that you consult an authorized HYUNDAI dealer.

Multi fuse











If the multi fuse is blown, it must be removed as follows:









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 an authorized HYUNDAI dealer.










Driver's side fuse panel

Fuse Name	Symbol	Fuse Rating	Circuit Protected
MODULE5	⁵ MODULE	1.5A	Emergency Call (E-Call) Module, Front Wireless Charger Unit, ATM Shift Lever IND., Driver Console Switch, Electro Chromic, Mirror, Audio, A/V & Navigation Head Unit, Low ISG Converter, Data Link Connector, AMP, Crash Pad Switch, Head Lamp LH/RH, A/C Control Module, Front/Rear Seat Warmer Control Module, Front Air Ventilation Control Module
MODULE3	³ MODULE	7.5A	Stop Lamp Switch, BCM, ATM Shift Lever
SUNROOF1		20A	Sunroof Unit
T/GATE OPEN		10A	Tail Gate Relay
P/WDW LH	^{LH} 	25A	Power Window LH Relay, Driver Safety Power Window Module (LHD)
MULTI MEDIA	^{MULTI MEDIA}	15A	ISG DC-DC Converter, Audio, A/V & Navigation Head Unit
P/WDW RH	^{RH} 	25A	Power Window RH Relay, Driver Safety Power Window Module (RHD)
P/SEAT DRV	^{DRV} 	25A	Driver Seat Manual Switch
P/SEAT PASS	^{PASS} 	25A	Passenger Seat Manual Switch
MODULE4	⁴ MODULE	7.5A	EPB Switch, BCM, Front View Camera, 4WD ECM, Dosing Control Module, Clutch Master Cylinder
PDM3	³ 	7.5A	Smart Key Control Module, Immobilizer Module
POWER OUTLET2	² POWER OUTLET	20A	ICM Relay Box (Power Outlet Relay)
INTERIOR LAMP		7.5A	Foot Lamp LH/RH, Vanity Lamp LH/RH, Room Lamp, Overhead Console Lamp, Glove Box Lamp
E-CALL	E-CALL	7.5A	Emergency Call (E-Call) Module










Driver's side fuse panel

Fuse Name	Symbol	Fuse Rating	Circuit Protected
B/A HORN		10A	ICM Relay Box (Burglar Alarm Horn Relay)
MEMORY1	MEMORY	10A	A/C Control Module, Rain Sensor, Electro Chromic Mirror, Head Up, Display, Instrument Cluster, Dirver Console Switch, Blind-Spot, Collision Warning Unit LH/RH, ICM Relay Box (Outside Folding/Unfolding Relay)
S/HEATER RR		20A	Rear Seat Warmer Control Module
AMP	AMP	30A	ISG DC-DC Convertor, AMP
MODULE6	⁶ MODULE	7.5A	Smart Key Control Module, BCM
MDPS	 1	7.5A	MDPS Unit
MODULE1	¹ MODULE	7.5A	Paseenger Console Switch, Hazard Switch, Data Link Connector
MODULE7	⁷ MODULE	7.5A	Front Air Ventilation Seat Module, Cooling Fan Controller, Front/Rear Seat Warmer Module
A/BAG IND		7.5A	Instrument Cluster, A/C Control Module
BRAKE SWITCH	BRAKE SWITCH	7.5A	Stop Lamp Switch, Smart Key Control Module
START		7.5A	Transmission Range Switch (A/T), ICM Relay Box (Burglar Alarm Relay)
CLUSTER	CLUSTER	7.5A	Head Up Display, Instrument Cluster
DR/LOCK		20A	Door Lock Relay, Door Unlock Relay, ICM Relay Box (T/Turn Unlock & D/Lock Relay)
PDM2	² 	7.5A	Immobilizer Module
FCA		10A	Front Radar Unit









Driver's side fuse panel

Fuse Name	Symbol	Fuse Rating	Circuit Protected
S/HEATER FRT		20A	Front Seat Warmer Module, Front Air Ventilation Seat Module
A/CON SW	² A/C	20A	A/C Control Module
A/C	¹ A/C	7.5A	A/C Control Module, E/R Junction Block (RLY.1, RLY.10, RLY.11 RLY.13)
PDM1	¹ 	15A	Smart Key Control Module, Start/Stop Button Switch
SPARE	SPARE	10A	Spare
A/BAG		15A	SRS Control Module
IG1	IG1	25A	PCB Block (FUSE : F10-1, F10-2, F12, F14, F16)
MODULE2	² MODULE	10A	Emergency Call (E-Call) Module, Front USB Charger, Smart Key, Control Module, BCM, Audio, A/V & Navigation Head Unit, ICM Relay Box (P/Outlet2 Relay)
WASHER		15A	Multifunction Switch
Wiper		10A	BCM
RR WIPER		15A	Rear Wiper Relay, Rear Wiper Motor
WIPER FRT		25A	Front Wiper Motor, PCM Block (Front Wiper (Low) Relay)
HEATED MIRROR		10A	Driver/Passenger Power Outside Mirror, A/C Control Module, ECM
POWER OUTLET	¹ POWER OUTLET	20A	Front Power Outlet #2
SPARE	SPARE	15A	Spare
HEATED STEERING		15A	BCM







Engine compartment fuse panel

Relay No.		Symbol	Relay Name
RLY.1	E61	² PTC HEATER	PTC Heater #2 Relay
RLY.2	E62	² 	Cooling Fan #2 Relay
RLY.3	E63	³  (IG1)	PDM #3 (IG1) Relay
RLY.4	E64	¹ 	Start #1 Relay
RLY.5	E65		Fuel Filter Heater Relay
RLY.6	E66	⁴  (IG2)	PDM #4 (IG2) Relay
RLY.7	E67	FUEL PUMP	Fuel Pump Relay
RLY.8	E68	²  (ACC)	PDM #2 (ACC) Relay
RLY.9	E69	¹ 	Cooling Fan #1 Relay
RLY.10	E70		Blower Relay
RLY.11	E71	¹ PTC HEATER	PTC Heater #1 Relay
RLY.12	E72		Rear Defogger Relay
RLY.13	E73	³ PTC HEATER	PTC Heater #3 Relay
RLY.14	E74	DCU	DCU Relat




Engine compartment fuse panel

Type	Fuse Name	Symbol	Fuse Rating	Circuit Protected
MULTI FUSE-1	MAIN	MAIN	180A (G4FJ/D4FE) 150A (G3LE/G4FP)	E/R Junction Block (Fuse - F19, F20, F21, F22, F23, F24-1, F24-2, F25), Alternator
	MDPS	 1	80A	MDPS Unit
MULTI FUSE-2	BATT5	⁵ 	60A	PCB Block (Fuse - F1, F2, F3, F6), Engine Control Relay)
	BATT2	² 	60A	IGPM ((Fuse - F30), IPS0, IPS1, IPS2)
	BATT3	³ 	60A	IGPM (IPS3, IPS4, IPS5, IPS6, IPS7)
	BATT4	⁴ 	50A	IGPM (Fuse - F3, F4, F5, F7, F8, F9, F12, F15, F17, F18)
	C/FAN		60A/50A	E/R Junction Block (RLY.2, RLY.9)
	ABS1	¹ 	40A (W/O EPB) 60A (With EPB)	ESP Control Module
	BLOWER		40A	E/R Junction Block (RLY.10)
	IG1	IG1	40A	W/O Smark Key : Ignition Switch With Smark Key : E/R Junction Block (RLY.3, RLY.8)
	IG2	IG2	40A	W/O Smark Key : Ignition Switch With Smark Key : E/R Junction Block (RLY.6, RLY.4)









Engine compartment fuse panel

Type	Fuse Name	Symbol	Fuse Rating	Circuit Protected
FUSE	TCM		15A	TCM
	CLUTCH ACTUATOR 2	² CLUTCH ACTUATOR	15A	Electronic Clutch Module
	CLUTCH ACTUATOR 1	¹ CLUTCH ACTUATOR	40A	Electronic Clutch Module
	V/PUMP	VACUUM PUMP	20A	Vacuum Pump
	F/PUMP	FUEL PUMP	20A	E/R Junction Block (RLY.7)
	BATT1	¹ 	40A	IGPM ((Fuse - F21, F24, F27, F28, F33), Leak Current Autocut Device)
	DCT1	¹ DCT	40A	TCM
	DCT2	² DCT	40A	TCM
	DCT3	² DCT	40A	SGA
	BATTERY MANAGEMENT1	¹ BATTERY MANAGEMENT	15A	E/R Junction Block (Fuse - F32, F33)
	RR HTD		40A	E/R Junction Block (RLY. 12)
	TRAILER		40A	Trailer Module
	4WD		20A	4WD ECM
	ABS2	² 	40A	ESP Control Module, Data Link Connector




Engine compartment fuse panel

Type	Fuse Name	Symbol	Fuse Rating	Circuit Protected
FUSE	CVVD	CVVD	40A	CVVD Actuator
	EOP	EOP	40A	Electronic Oil Pump
	DCU	DCU	40A	E/R Junction Block (RLY.14)
	F/FILTER		30A	E/R Junction Block (RLY.5)
MULTI FUSE-3	GLOW		80A	Glow Relay Unit
	COOLING FAN2		80A	[D4FE/G3LE/G4FP] Cooling Fan Motor
	PTC1	¹ PTC HEATER	50A	E/R Junction Block (RLY.11)
	PTC2	² PTC HEATER	50A	E/R Junction Block (RLY.1)
	PTC3	³ ⁴ PTC HEATER	50A	E/R Junction Block (RLY.13)
FUSE	DCU4	⁴ DCU	15A	Dosing Control Module
	BATTERY MANAGEMENT2	² BATTERY MANAGEMENT	10A	BMS Control Module
	BATTERY MANAGEMENT3	³ BATTERY MANAGEMENT	10A	BMS Control Module
	DCU3	³ DCU	20A	Dosing Control Module
	DCU2	² DCU	20A	Dosing Control Module

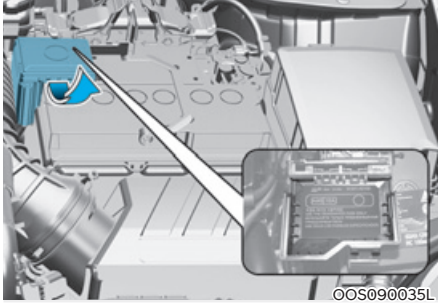
Engine compartment fuse panel (PCB Block)

Fuse Name	Symbol	Fuse Rating	Circuit Protected
A/CON COMP	A/C	10A	PCB Block (A/C Comp Relay)
HORN		15A	PCB Block (Horn Relay)
ECU3	^{E3} 	15A	ECM/PCM
SPARE	SPARE	10A	Not Used
IGN COIL	IGN COIL	20A	[G4FP/G4NJ] Ignition Coil #1/#2/#3/#4 [G3LE] Ignition Coil #1/#2/#3
DCU	DCU	20A	[D4FE] Front Nox Sensor, Rear Nox Sensor, PM (Particulate Matter) Sensor
ECU4	^{E4} 	15A	ECM/PCM
SENSOR1	^{S1} 	15A	[G4FP/G4NJ/G3LE] Oxygen Sensor (Up/Down) [D4FE] Air Flow Sensor, Pressure Decay Valve, Lambda Sensor (Up/Down)
SENSOR3	^{S3} 	10A	E/R Junction Block (RLY. 7) [D4FE] E/R Junction Block (RLY. 5)
INJECTOR	INJECTOR	15A	[G4NJ] Injector #1/#2/#3/#4
MHSG	MHSG	15A	[G3LE/D4FE] Mild Hybrid Starter & Generator Motor (Signal)
TCU2	^{T2} 	15A	[W/O Mild HEV & DCT] TCM, Transaxle Range Switch [W/O Mild HEV & CVT] Inhibitor Switch
ECLUTCH	³ CLUTCH ACTUATOR	15A	[With Mild HEV] Electronic Clutch Module
ECU1	^{E1} 	20A	ECM/PCM
ABS3	³ (ABS)	10A	Data Link Connector, ESP Control Module
ECU2	^{E2} 	10A	[G4FP/G3LE] ECM [D4FE] Electronic VGT Actuator, PTC Heater

Engine compartment fuse panel (PCB Block)

Fuse Name	Symbol	Fuse Rating	Circuit Protected
SENSOR4	S4 	15A	[G4NJ] Electronic Oil Pump [D4FE] Diesel Heater, Glow Relay Unit
SENSOR2	S2 	15A	[D4FE] Diesel Heater, Glow Relay Unit [G4FP/G3LE] Purge Control Solenoid Valve, Variable Oil Pump, Oil Control Valve #1 (Intake), Oil Control Valve #2 (Exhaust), RCV Control Solenoid, E/R Junction Block (RLY. 11), PCB Block (A/C Comp Relay) [G4NJ] Oil Pressure Solenoid Valve, Purge Control Solenoid Valve, Oil Control Valve #1 (Intake), Oil Control Valve #2 (Exhaust), Variable Intake Solenoid, E/R Junction Block (RLY. 11, RLY. 2, RLY 9), PCB Block (A/C Comp Relay) [D4FE] Air Flow Sensor, E/R Junction Block (RLY. 11, RLY. 2, RLY 9), PCB Block (A/C Comp Relay)
ECU5	E5 	10A	ECM/PCM [G4FP/G3LE] CVVD Actuator

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.

LIGHT BULBS

We recommend that you consult an authorized HYUNDAI dealer to replace most vehicle light bulbs. It is difficult to replace vehicle light bulbs because other parts of the vehicle must be removed before you can get to the bulb. This is especially true for removing the headlamp assembly to get to the bulb(s).

Removing/installing the headlamp assembly can result in damage to the vehicle.



WARNING

Prior to working on a light, 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

The headlamp and tail lamp lenses could appear frosty if the vehicle is washed after driving or the vehicle is driven at night in wet weather. This condition is caused by temperature difference between the lamp inside and outside and, it does not indicate a problem with your vehicle. When moisture condenses in the lamp, it will be removed after driving with the headlamp on. The removable level may differ depending on lamp size, lamp position and environmental condition. However, if moisture is not removed, we recommend that your vehicle is inspected by an authorized HYUNDAI dealer.



Information

The headlamp aiming should be adjusted after an accident or after the headlamp assembly is reinstalled. We recommend to consult an authorized HYUNDAI dealer.



Information

- Traffic Change (for Europe)

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 (ex. 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, position lamp, turn signal lamp and daytime running light bulb replacement

Type A

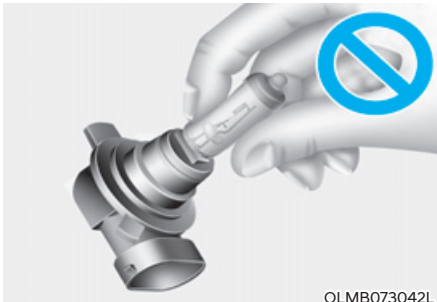


©S090017K

- (1) Turn signal lamp
- (2) Headlamp (High/Low)
- (3) Daytime running light (if equipped) / Position lamp (LED)
- (4) Daytime running light (if equipped) / Position lamp (LED)
- (5) Front fog lamp (if equipped)



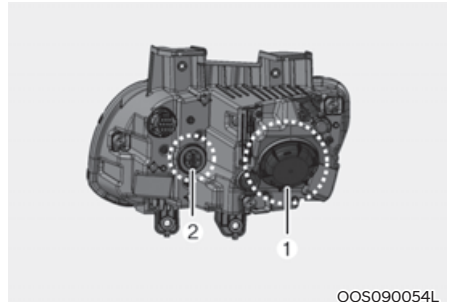
WARNING



OLMB073042L

- **Handle halogen bulbs with care. Halogen bulbs contain pressurized gas that will produce flying pieces of glass that could cause injuries if broken.**
- **Wear eye protection when changing a bulb. Allow the bulb to cool down before handling it.**

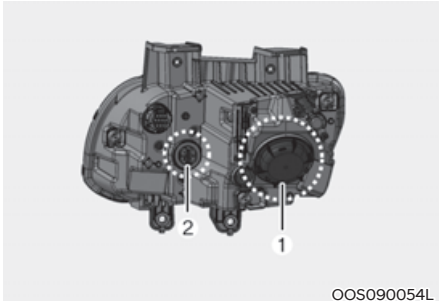
- Always handle them carefully, and avoid scratches and abrasions. If the bulbs are lit, avoid contact with liquids.
- Never touch the glass with bare hands. Residual oil may cause the bulb to overheat and burst when lit.
- A bulb should be operated only when installed in a headlamp.
- If a bulb becomes damaged or cracked, replace it immediately and carefully dispose of it.



OOS090054L

Headlamp

1. Open the hood.
2. Disconnect the negative battery cable.
3. Remove the bulb cover (1) by turning it counterclockwise.
4. Disconnect the bulb socket-connector. (for low beam and high beam)
5. Remove the bulb from the headlamp assembly.
6. Install a new bulb.
7. Connect the bulb socket-connector. (for low beam and high beam)
8. Install the bulb cover by turning it clockwise.



OOS090054L

Turn signal lamp

1. Open the hood.
2. Disconnect the negative battery cable.
3. Remove the bulb cover (2) by turning it counterclockwise.
4. Disconnect the bulb socket-connector.
5. Remove the bulb from the assembly.
6. Install a new bulb.
7. Connect the bulb socket-connector.
8. Install the bulb cover by turning it clockwise.

Daytime running light and position lamp

If the LED lamp does not operate, we recommend that you have the vehicle checked by an authorized HYUNDAI dealer.

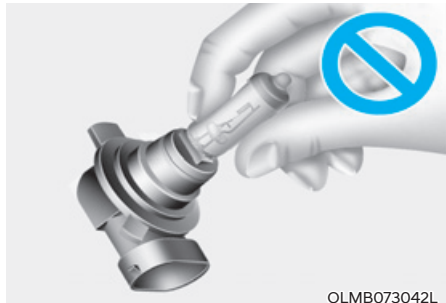
Type B



OOS090017K

- (1) Headlamp (High) (LED)
- (2) Headlamp (Low) (LED)
- (3) Daytime running light / Position lamp / Turn signal lamp (LED) (if equipped)
- (4) Daytime running light / Position lamp / Turn signal lamp (LED) (if equipped)
- (5) Front fog lamp (if equipped)

WARNING



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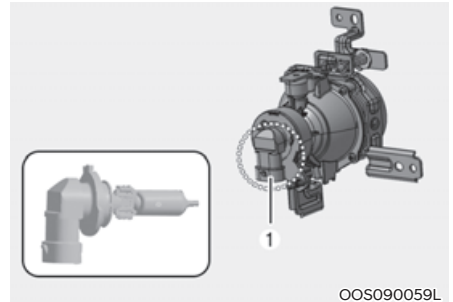
- **Handle halogen bulbs with care. Halogen bulbs contain pressurized gas that will produce flying pieces of glass that could cause injuries if broken.**
- **Wear eye protection when changing a bulb. Allow the bulb to cool down before handling it.**

- Always handle them carefully, and avoid scratches and abrasions. If the bulbs are lit, avoid contact with liquids.
- Never touch the glass with bare hands. Residual oil may cause the bulb to overheat and burst when lit.
- A bulb should be operated only when installed in a headlamp.
- If a bulb becomes damaged or cracked, replace it immediately and carefully dispose of it.

Daytime running light, position lamp, turn signal lamp, and head lamp

If the LED lamp does not operate, we recommend that you have the vehicle checked by an authorized HYUNDAI dealer.

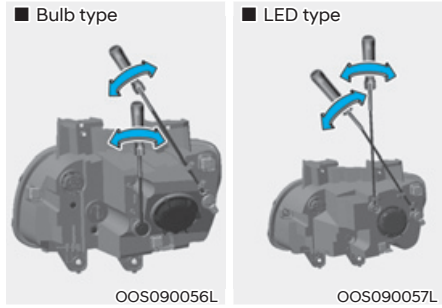
Front fog lamp (if equipped)



1. Loosen the pin-type retainers of the under cover and then remove the undercover.
2. Reach your hand into the back of the front bumper.
3. Disconnect the power connector from the socket.
4. Remove the bulb-socket from the housing (1) by turn the socket align with the slots of the housing.
5. Install a new bulb-socket into the housing by aligning the tabs on the socket.

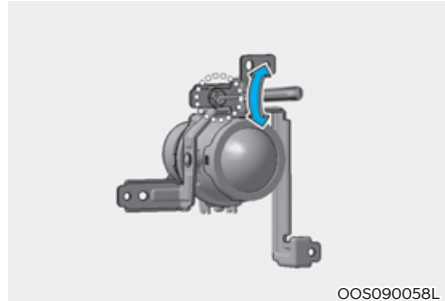
Headlamp and front fog lamp aiming (for Europe)

Headlamp aiming



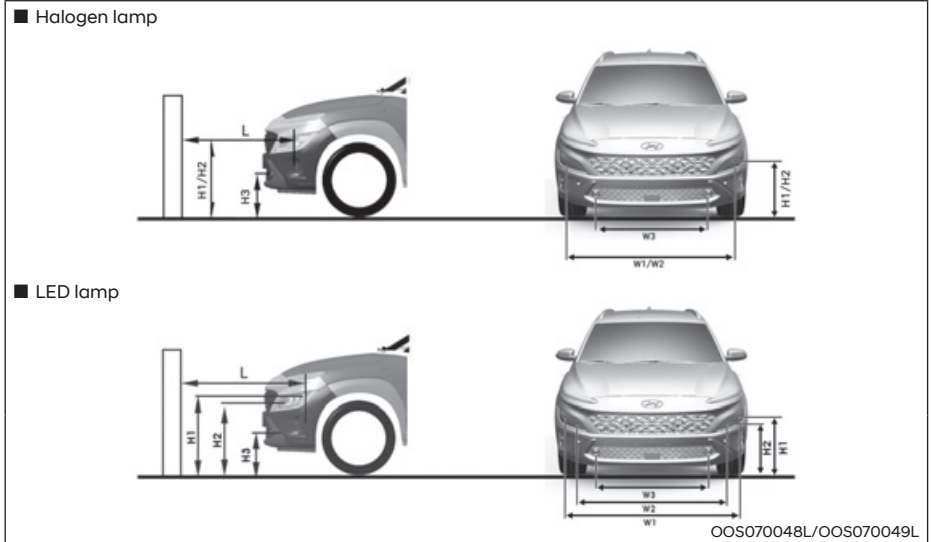
1. Inflate the tires to the specified pressure and remove any loads from the vehicle except the driver, spare tire, and tools.
2. The vehicle should be placed on a flat floor.
3. Draw vertical lines (Vertical lines passing through respective head lamp centers) and a horizontal line (Horizontal line passing through center 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.

Front fog lamp aiming



The front fog lamp can be aimed in the same manner as the headlamps aiming. With the front fog lamps and battery in normal condition, aim the front fog lamps. To aim the front fog lamp up or down, turn the driver clockwise or counterclockwise.

Aiming point



H1 : Height between the head lamp bulb center and ground (Low beam)

H2 : Height between the head lamp bulb center and ground (High beam)

H3 : Height between the fog lamp bulb center and ground

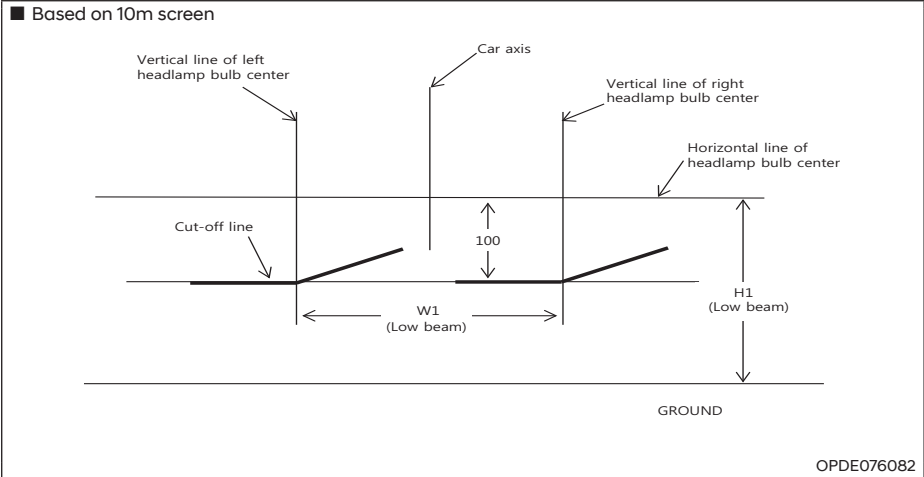
W1 : Distance between the two head lamp bulbs centers (Low beam)

W2 : Distance between the two head lamp bulbs centers (High beam)

W3 : Distance between the two fog lamp bulbs centers

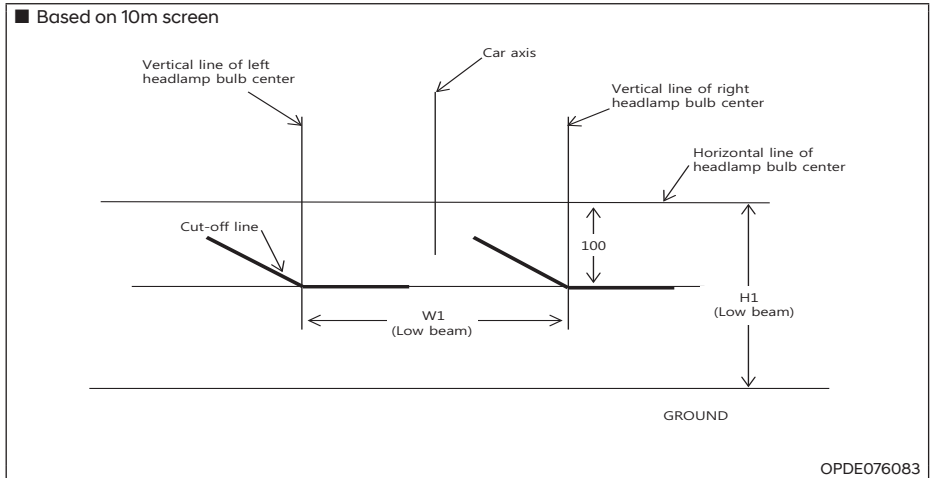
Vehicle condition	Lamp type	H1	H2	H3	W1	W2	W3
Without driver	Halogen	625 (24.6)	617 (24.28)	332 (13.06)	1506 (59.27)	1320 (51.95)	880 (34.63)
	LED	628 (24.71)			1503 (59.15)		
With driver	Halogen	617 (24.28)	608 (23.93)	323 (12.71)	1504 (59.15)	1320 (51.95)	
	LED	620 (24.4)			1503 (59.15)		

Headlamp low beam (LHD side)



1. Turn the low beam on without driver aboard.
2. The cut-off line should be projected in the cut-off line shown in the picture.
3. When aiming the low beam, vertical aiming should be adjusted after adjusting the horizontal aiming.
4. If headlamp leveling device is equipped, adjust the head lamp leveling device switch to "0".

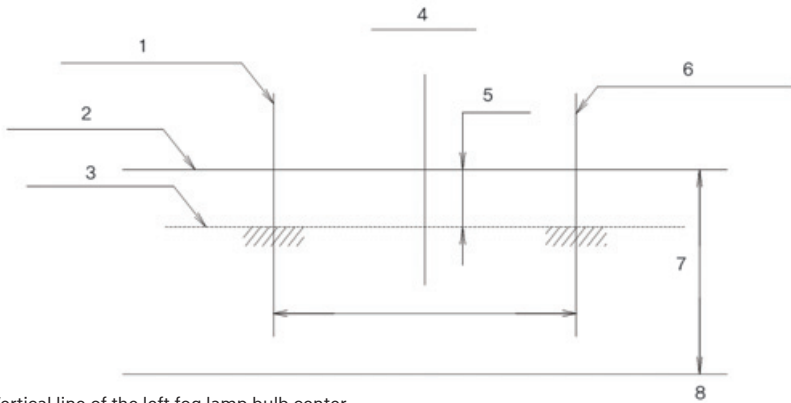
Headlamp low beam (RHD side)



1. Turn the low beam on without driver aboard.
2. The cut-off line should be projected in the cut-off line shown in the picture.
3. When aiming the low beam, vertical aiming should be adjusted after adjusting the horizontal aiming.
4. If headlamp leveling device is equipped, adjust the head lamp leveling device switch with 0 positions.

Front fog lamp

■ Based on 10m screen



1. Vertical line of the left fog lamp bulb center
2. Horizontal line of fog lamp bulb center
3. Cut-off line
4. Car axis
5. W3 (Front fog)
6. Vertical line of the right fog lamp bulb center
7. H3 (Front fog)
8. GROUND

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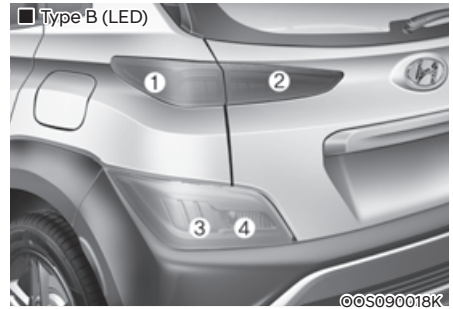
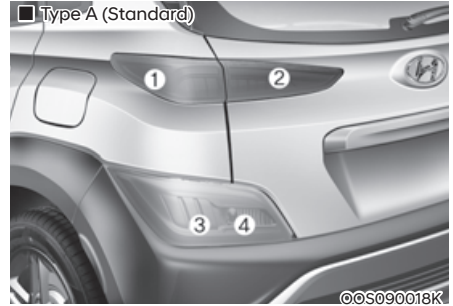
1. Turn the front fog lamp on without the driver aboard.
2. The cut-off line should be projected in the allowable range (shaded region).

Side repeater lamp replacement

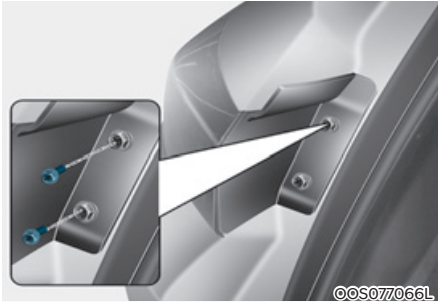


If the light bulb does not operate, we recommend that you have the vehicle checked by an authorized HYUNDAI dealer.

Rear combination lamp bulb replacement

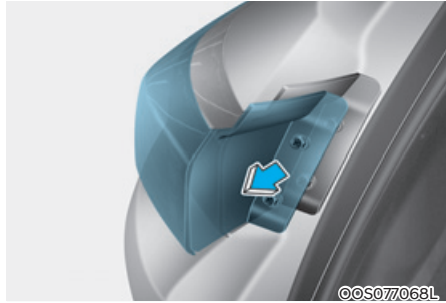


- (1) Stop/Tail lamp
- (2) Tail lamp(Type A),
Stop/Tail lamp (Type B)
- (3) Turn signal lamp (Bulb) (Type A)
Turn signal lamp (LED) (Type B)
- (4) Rear fog lamp
(LHD : Left side, RHD : Right side)
- (5) Backup lamp
(LHD : Right side, RHD : Left side)

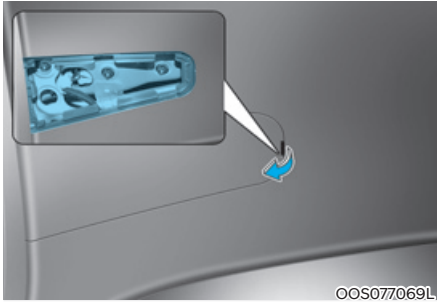


Stop/Tail lamp

1. Turn off the engine.
2. Open the tailgate.
3. Loosen the lamp assembly retaining screws with a cross-tip screwdriver.



4. Remove the rear combination lamp assembly from the body of the vehicle.
5. Remove the socket from the assembly by turning the socket counterclockwise until the tabs on the socket align with the slots on the assembly.
6. 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.
7. Insert a new bulb by inserting it into the socket and rotating it until it locks into place.
8. 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.
9. Reinstall the lamp assembly to the body of the vehicle.



Tail lamp (Type A)

1. Turn off the engine.
2. Open the tailgate.
3. Remove the service cover using a flat-blade screwdriver.
4. Remove the socket from the assembly by turning the socket counterclockwise until the tabs on the socket align with the slots on the assembly.
5. Remove the bulb 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.
6. Insert a new bulb by inserting it into the socket and rotating it until it locks into place.
7. 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.
8. Reinstall the lamp assembly to the body of the vehicle.

Tail / Stop lamp (Type B)

If the LED lamp does not operate, we recommend that you have the vehicle checked by an authorized HYUNDAI dealer.

Turn signal lamp / Back up lamp / Rear fog lamp

If these lamps do not operate, we recommend that you have the vehicle checked by an authorized HYUNDAI dealer.

High mounted stop lamp replacement

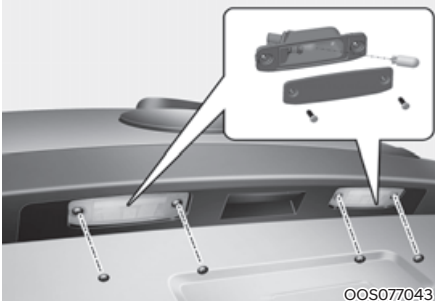


If the high mounted stop does not operate, we recommend that you contact an authorized HYUNDAI dealer.

The LED lamps cannot be replaced as a single unit because it is an integrated unit. The LED lamp has to be replaced with the unit.

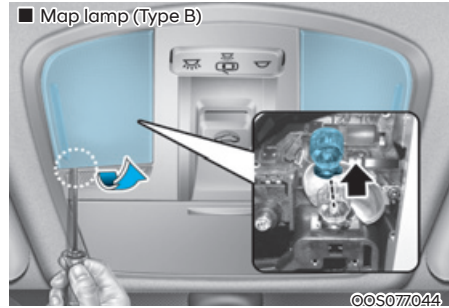
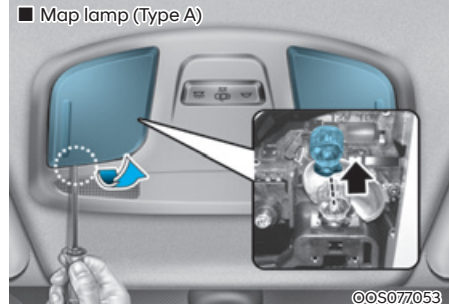
A skilled technician should check or repair the LED lamp, for it may damage related parts of the vehicle.

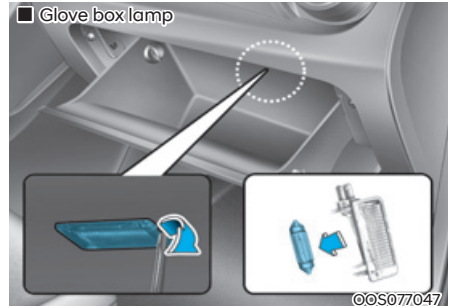
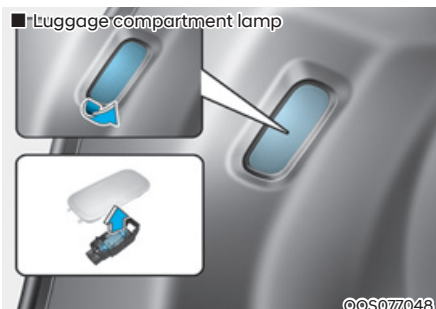
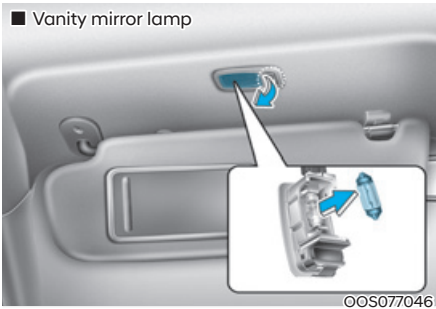
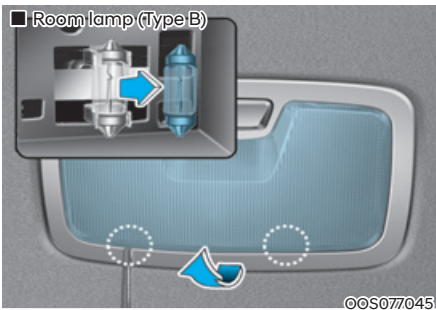
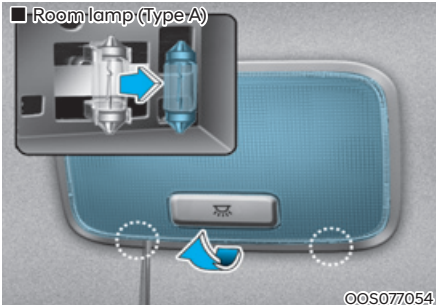
License plate light bulb replacement



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 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

NOTICE

If you park your vehicle near a stainless steel sign or glass facade building, the vehicle's exterior plastic parts such as a bumper, spoiler, garnish, lamp or outside rearview mirror might be damaged due to sunlight reflected from the sign or building. To prevent damage of the exterior plastic parts, you should avoid parking in areas where light may be reflected or use a car cover. (The exterior plastic parts applied to your vehicle may vary.)

Exterior general caution

It is very important to follow the label directions when using any chemical cleaner or polish. Read all warning and caution statements that appear on the label.

Finish maintenance

Washing

To help protect your vehicle's finish from rust and deterioration, wash it thoroughly and frequently at least once a month with lukewarm or cold water.

If you use your vehicle for off-road driving, you should wash it after each off-road trip. Pay special attention to the removal of any accumulation of salt, dirt, mud, and other foreign materials. Make sure the drain holes in the lower edges of the doors and rocker panels are kept clear and clean.

Insects, tar, tree sap, bird droppings, industrial pollution and similar deposits can damage your vehicle's finish if not removed immediately.

Even prompt washing with plain water may not completely remove all these deposits.

A mild soap, safe for use on painted surfaces, 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.



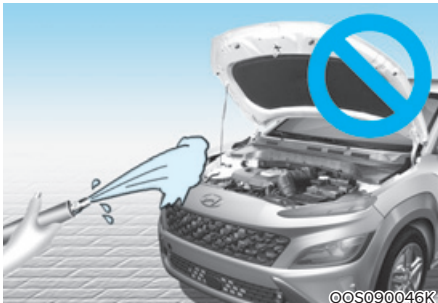
WARNING

Wet brakes

After washing the vehicle, test the brakes while driving slowly to see if they have been affected by water. If braking performance is impaired, dry the brakes by applying them lightly while maintaining a slow forward speed.

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.



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.**

NOTICE

Matte paint finish vehicle (if equipped)

Automatic car wash which uses rotating brushes should not be used as this can damage the surface of your vehicle. A steam cleaner which washes the vehicle surface at high temperature may result the oil to adhere and leave stains that is difficult to remove.

Use a soft cloth (e.g. microfiber towel or sponge) when washing your vehicle and dry with a microfiber towel. When you hand wash your vehicle, you should not use a cleaner that finishes with wax. If the vehicle surface is too dirty (sand, dirt, dust, contaminant, etc.), clean the surface with water before washing the car.

Waxing

A good coat of wax is a barrier between your paint and contaminate. Keeping a good coat of wax on your vehicle will help protect it.

Wax the vehicle when water will no longer bead on the paint.

Always wash and dry the vehicle before waxing. Use a good quality liquid or paste wax, and follow the manufacturer's instructions. Wax all metal trim to protect it and to maintain its luster.

Removing oil, tar, and similar materials with a spot remover will usually strip the wax from the finish. Be sure to re-wax these areas even if the rest of the vehicle does not yet need waxing.

NOTICE

- Wiping dust or dirt off the body with a dry cloth will scratch the finish.
- Do not use steel wool, abrasive cleaners, or strong detergents containing highly alkaline or caustic agents on chrome-plated or anodized aluminum parts. This may result in damage to the protective coating and cause discoloration or paint deterioration.

NOTICE

Matte paint finish vehicle (if equipped)

Do not use any polish protector such as a detergent, an abrasive and a polish. In case wax is applied, remove the wax immediately using a silicon remover and if any tar or tar contaminant is on the surface use a tar remover to clean. However, be careful not to apply too much pressure on the painted area.

Finish damage repair

Deep scratches or stone chips in the painted surface must be repaired promptly. Exposed metal will quickly rust and may develop into a major repair expense.

NOTICE

If your vehicle is damaged and requires any metal repair or replacement, be sure the body shop applies anti-corrosion materials to the parts repaired or replaced.

NOTICE

Matte paint finish vehicle (if equipped)

In case of matte paint finish vehicles, it is impossible to modify only the damaged area and repair of the whole part is necessary. If the vehicle is damaged and painting is required, we recommend that you have your vehicle maintained and repaired by an authorized HYUNDAI dealer. Take extreme care, as it is difficult to restore the quality after the repair.

Bright-metal maintenance

- To remove road tar and insects, use a tar remover, not a scraper or other sharp object.
- To protect the surfaces of bright-metal parts from corrosion, apply a coating of wax or chrome preservative and rub to a high luster.
- During winter weather or in coastal areas, cover the bright metal parts with a heavier coating of wax or preservative. If necessary, coat the parts with non-corrosive petroleum jelly or other protective compound.

Underbody maintenance

Corrosive materials used for ice and snow removal and dust control may collect on the underbody. If these materials are not removed, accelerated rusting can occur on underbody parts such as the fuel lines, frame, floor pan and exhaust system, even though they have been treated with rust protection. Thoroughly flush the vehicle underbody and wheel openings with lukewarm or cold water once a month, after off-road driving and at the end of each winter. Pay special attention to these areas because it is difficult to see all the mud and dirt. It will do more harm than good to wet down the road grime without removing it. The lower edges of doors, rocker panels, and frame members have drain holes that should not be allowed to clog with dirt; trapped water in these areas can cause rusting.



WARNING

After washing the vehicle, test the brakes while driving slowly to see if they have been affected by water. If braking performance is impaired, dry the brakes by applying them lightly while maintaining a slow forward speed.

Aluminum wheel maintenance

The aluminum wheels are coated with a clear protective finish.

NOTICE

- **Do not use any abrasive cleaner, polishing compound, solvent, or wire brushes on aluminum wheels.**
- **Clean the wheel when it has cooled.**
- **Use only a mild soap or neutral detergent, and rinse thoroughly with water. Also, 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 vinyl.

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 color of the leather may fade or the surface may get stripped off.

Cleaning the upholstery and interior trim

Vinyl (if equipped)

Remove dust and loose dirt from vinyl with a whisk broom or vacuum cleaner. Clean vinyl surfaces with a vinyl cleaner.

Fabric (if equipped)

Remove dust and loose dirt from fabric with a whisk broom or vacuum cleaner. Clean with a mild soap solution recommended for upholstery or carpets.

Remove fresh spots immediately with a fabric spot cleaner. If fresh spots do not receive immediate attention, the fabric can be stained and its color can be affected. Also, its fire-resistant properties can be reduced if the material is not properly maintained.

NOTICE

Using anything but recommended cleaners and procedures may affect the fabric's appearance and fire-resistant properties.

Leather (if equipped)

- 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 product.



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 color. Be sure to read the instructions and consult a specialist when using leather coating or protective agent.
 - Light colored (beige, cream beige) leather is easily contaminated and the stain is noticeable. Clean the seats frequently.
 - Avoid wiping with wet cloth. It may cause the surface to crack.
- Cleaning the leather seats
 - Remove all contaminations instantly. Refer to instructions below for removal of each contaminant.
 - Cosmetic products (sunscreen, foundation, etc.)

Apply cleansing cream on a cloth and wipe the contaminated spot. Wipe off the cream with a wet cloth and remove water with a dry cloth.
 - Beverages (coffee, soft drink, etc.)

Apply a small amount of neutral detergent and wipe until contaminations do not smear.
 - Oil

Remove oil instantly with absorbable cloth and wipe with stain remover used only for natural leather.
 - Chewing gum

Harden the gum with ice and remove gradually.

Cleaning the 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 Service Passport in your vehicle.

Your vehicle is equipped with an emission control system to meet all emission regulations.

There are three emission control systems which are 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 an authorized HYUNDAI dealer in accordance with the maintenance schedule in this manual.



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 vapors from escaping into the atmosphere.

Canister

Fuel vapors generated inside the fuel tank are absorbed and stored in the onboard canister. When the engine is running, the fuel vapors absorbed in the canister are drawn into the surge tank through the purge control solenoid valve.

Purge Control Solenoid Valve (PCSV)

The purge control solenoid valve is controlled by the Engine Control Module (ECM); when the engine coolant temperature is low during idling, the PCSV closes so that evaporated fuel is not taken into the engine. After the engine warms-up during ordinary driving, the PCSV opens to introduce evaporated fuel to the engine.

3. Exhaust emission control system

The Exhaust Emission Control System is a highly effective system which controls exhaust emissions while maintaining good vehicle performance.

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 colorless and odorless, 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

- **A hot exhaust system can ignite flammable items under your vehicle. Do not park, idle, or drive the vehicle over or near flammable objects, such as dry grass, paper, leaves, etc.**
- **The exhaust system and catalytic system are very hot while the engine is running or immediately after the engine is turned off. Keep away from the exhaust system and catalytic converter as 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 gasoline engines.
- Do not operate the vehicle when there are signs of engine malfunction, such as misfire or a noticeable loss of performance.
- Do not misuse or abuse the engine. Examples of misuse are coasting with the 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. We recommend that all inspections and adjustments are made by an authorized HYUNDAI dealer.
- Avoid driving with a very low fuel level. If you run out of gasoline, it could cause the engine to misfire and result in excessive loading of the catalytic converter.

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 particulate filter (GPF) (if equipped)

The Gasoline Particulate Filter (GPF) system removes the soot in the exhaust gas.

The GPF system automatically burns (or oxidizes) 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 may reach a certain amount regardless of the soot oxidation process, then the GPF lamp will illuminate.

The Gasoline Particulate Filter (GPF) Lamp stops illuminating, when the driving speed exceeds 80 km/h (50 mph) with engine RPM 1,500 ~ 4,000 and the gear in the 3rd position or above for approximately 30 minutes.

When the GPF lamp starts to blink or the warning message "Check exhaust system" pops up even though the vehicle was driven as mentioned above, we recommend that you have the GPF system checked by an authorized HYUNDAI dealer.

With the GPF lamp blinking for an extended period of time, it may damage the GPF system and lower the fuel economy.

**CAUTION**

Gasoline Fuel (if equipped with GPF)

We recommend you to use only the regulated gasoline fuels, when your vehicle is equipped with the GPF system.


When you use other gasoline fuels, which are high in sulfurs (above 50 ppm) or that contain unspecified additives, they may damage the GPF system and cause white smoke emissions.

Diesel particulate filter (DPF) (if equipped)

The Diesel Particulate Filter (DPF) system removes the soot in the exhaust gas.

The DPF system automatically burns (or oxidizes) 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 Diesel Particulate Filter (DPF) Lamp () illuminates.

The Diesel Particulate Filter (DPF) Lamp stops illuminating, when the driving speed exceeds 60 km/h (37mph), or when the engine RPM is between 1,500 and 2,500 with the gear in the 2nd position or above for approximately 25 minutes.

When the DPF Lamp continuously blinks or the warning message “Check exhaust system” illuminates in the above cases, we recommend that you have the DPF system checked by an authorized HYUNDAI dealer.

When the vehicle is continuously driven with the DPF Lamp flashing for an extended period of time, it may damage the DPF system and lower the fuel economy.



CAUTION

Diesel Fuel (if equipped with DPF)

We recommend you to use only the regulated diesel fuels, when your vehicle is equipped with the DPF system.

When you use other diesel fuels, which are high in sulfurs (above 50 ppm) or that contain unspecified additives, they may damage the DPF system and cause white smoke emissions.

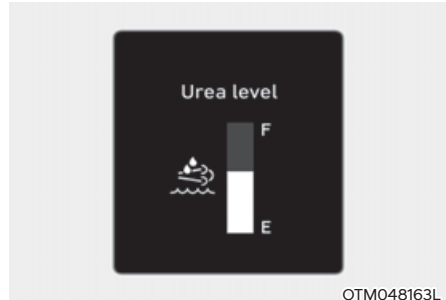
Lean NOx Trap (if equipped)

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.

Selective Catalytic Reduction (if equipped)

The Selective Catalytic Reduction (SCR) system is to catalytically convert NOx to Nitrogen and Water by using the reduction agent, the urea solution.

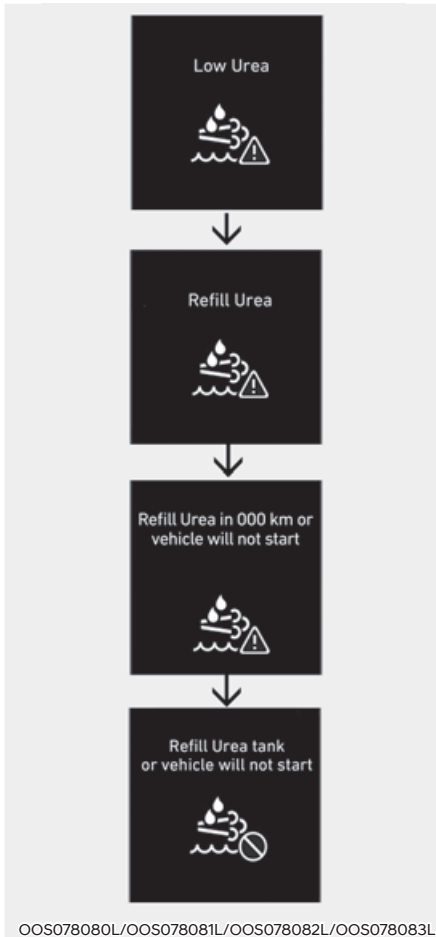
Urea gauge (if equipped)



The urea solution gauge indicates the approximate amount of remaining urea solution inside the urea solution tank.

- * The urea gauge image pops up, whenever the ignition switch is pressed to the ON position.

Low urea warning message (if equipped)









The lack warning messages of Urea appear below Urea 5.4 liter. When the warning message “Low Urea” is displayed with SCR warning lamp (🚨), the urea tank needs to be refilled. If not refilled for a considerable mileage, visual warning system will escalate the intensity by displaying the message “Refill Urea” with SCR warning lamp (🚨).

In this case, the tank soon needs to be refilled. The remaining urea in the tank approaches to too low level the warning message “Refill Urea tank or vehicle will not start” with SCR warning lamp (🚨). “xxx km (mile)” represents the remaining travel distance allowed, so do not continue driving to the limit of the remaining travel distance without refilling.

Otherwise, the vehicle can't be restarted once the engine is turned off by ignition key. Based on the driving pattern, environmental condition and road profile, the deducted remaining mileage may differ from the actual travel distance.

When “Low Urea” or “Refill Urea” message is displayed, add enough urea. When “Refill Urea tank or vehicle will not start” message is displayed, fill up enough urea. When “Refill Urea tank or vehicle will not start” message is displayed with SCR warning lamp (🚨), the vehicle can't be restarted once the engine is turned off by ignition key. For the above cases, full replenishment is always recommended.





Malfunction with the SCR system (if equipped)

	Upon detecting a malfunction	Driving 50 km after detecting a malfunction
Urea system failure (= no urea injection)	 <p>OOS078084L</p>	 <p>OTM078078L</p>
Incorrect urea detected (= abnormal urea)	 <p>OTM078077L</p>	 <p>OOS078087L</p>
Abnormal urea-solution consumption (= post treatment failure)	 <p>OTM078078L</p>	 <p>OOS078088L</p>

SCR system has malfunction due to disconnected electrical components, incorrect urea and so on.

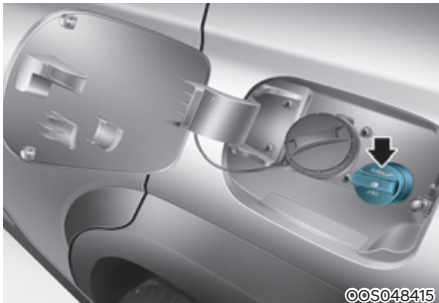
“xxx km(mile)” represents the remaining travel distance allowed, so do not continue driving to the limit of the remaining travel distance without fixing the source of the malfunction. Otherwise, the vehicle can’t be restarted once the engine is turned off by ignition key. In this case, we recommend that the system be inspected by an authorized HYUNDAI dealer.

Clearing the vehicle-restarting restriction (if equipped)

No restart	
Low urea solution level	<div style="background-color: black; color: white; padding: 10px; text-align: center;"> Refill Urea tank or vehicle will not start  </div> <p style="text-align: right; font-size: small;">OOS078083L</p>
Urea system failure (= no urea injection)	<div style="background-color: black; color: white; padding: 10px; text-align: center;"> Service Urea system in 0 km or vehicle will not start  </div> <p style="text-align: right; font-size: small;">OOS078089L</p>
Incorrect urea detected (= abnormal urea)	<div style="background-color: black; color: white; padding: 10px; text-align: center;"> Refill with correct Urea in 0 km or vehicle will not start  </div> <p style="text-align: right; font-size: small;">OOS078090L</p>
Abnormal urea-solution consumption (= post treatment failure)	<div style="background-color: black; color: white; padding: 10px; text-align: center;"> Service Urea system in 0 km or vehicle will not start  </div> <p style="text-align: right; font-size: small;">OOS078089L</p>

Once the inducement system reached to final status and disabled the vehicle restart, it will only be deactivated in case the urea tank is replenished or the malfunctions have been rectified. If the vehicle can't be restarted with "Refill Urea tank or vehicle will not start" message, refill enough urea, wait for minutes and try vehicle starting again. If vehicle starting is not possible regardless of urea level, we recommend that the system be inspected by an authorized HYUNDAI dealer.

Adding the urea solution



To refill the urea solution from the refill hose

1. Press the ignition switch to the OFF position.
2. Turn the urea solution tank cap in a counterclockwise direction to open it.
3. Fully insert the refill hose to fully add the ISO 22241-specified urea solution or above the mark on the urea solution tank.
 - * Pay the great caution not to add the urea solution into the fuel tank. If not, it surely applies adverse impact on the vehicle performance, causing various malfunctions.
 - * Never use the urea solution mixture with additives or water. It may allow foreign substances to enter the urea solution tank. If so, it surely applies adverse impact on the vehicle performance, causing various malfunctions.
 - * Use only the ISO 22241-specified urea solution. Any unauthorized urea solution surely applies adverse impacts on the vehicle performance, causing various malfunctions.
4. Turn the urea solution tank cap in a clockwise direction to securely close it.

To refill the urea solution from the refill bottle

1. Press the ignition switch to the OFF position
2. Turn the urea solution tank cap in a counterclockwise direction to open it.
3. Fully add the ISO 22241-specified urea solution or above the mark on the urea solution tank.
 - * Pay the great caution not to add the urea solution into the fuel tank. If not, it surely applies adverse impact on the vehicle performance, causing various malfunctions.
 - * Pay the great caution not to over-fill the (completely) fulfilled urea solution tank by force while refilling the urea solution from the refill bottle. The over-filled urea solution tank will be expanded when it becomes frozen and this can cause a serious malfunction of the urea solution tank or urea solution system.
 - * Never use the urea solution mixture with additives or water. It may allow foreign substances to enter the urea solution tank. If so, it surely applies adverse impact on the vehicle performance, causing various malfunctions.
 - * Use only the ISO 22241-specified urea solution. Any unauthorized urea solution surely applies adverse impacts on the vehicle performance, causing various malfunctions.
4. Turn the urea solution tank cap in a clockwise direction to securely close it.

Adding the urea solution: Every approximately 5,600 km (The urea solution consumption is dependent on the road profile, driving pattern and environmental condition)

- * It takes some time to update the cluster gauges after the UREA injection.



WARNING

- Do not apply any external impact on the DPF system. It may damage the catalyst, which is equipped inside the DPF system.
- Do not arbitrarily modify or manipulate the DPF system by redirecting or lengthen the exhaust pipe. It may adversely impact the DPF system.
- Avoid contact with the drained water from the exhaust pipe. The water is slightly acid and harmful to skin. If contacted, thoroughly wash it.
- Any arbitrary manipulation or modification of the DPF system may cause a system malfunction. The DPF system is controlled by the complex device.
- Wait for the DPF system to cool down before the maintenance service, as it is hot due to the heat generation. Otherwise, it may cause a skin burn.
- Add only the specified urea solution, when your vehicle is equipped with the urea solution system.
- The urea solution system (i.e. urea solution nozzle, urea solution pump, and DCU) operates for approximately 2 minutes more to eliminate the remaining urea solution inside, even after the ignition switch is pressed to the OFF position. Before the maintenance service, make sure that the urea solution system is completely turned OFF.
- The poor urea solution or the unauthorized liquids may damage the vehicle components, including the DPF system. Any unverified additives in the urea solution may clog the SCR catalyst and cause other malfunctions, which require the expensive DPF system to be replaced.
- When the urea solution contacts with the eyes or the skin, you should thoroughly wash the contaminated skin area.
- When you swallow the urea solution, thoroughly rinse your mouth and drink a lot of fresh water. Then, immediately consult a doctor.
- When your cloth is contaminated with the urea solution, immediately change your cloth.
- When you have an allergic reaction to the urea solution, immediately consult a doctor.
- Do not allow a child to contact the urea solution.
- Wipe off any urea solution spillage with water or cloth. When the urea solution is crystalized, wipe it off with the sponge or the cloth, which is dampened in the cold water. When the urea solution spillage is exposed in the air for an extended period of time, it is crystalized in white, damaging the vehicle surface.
- The urea solution is not the fuel additives. Thus, it should not be injected to the fuel tank. Otherwise, it may damage the engine.
- The urea solution is the aqueous solution, which is inflammable, non-toxic, colorless and odorless.
- Store the urea solution tank only in the well-ventilated locations. When the urea solution is exposed to the hot temperature at approximately 50°C for an extended period of time (i.e. under the direct sunlight), the chemical decomposition may occur, emitting the ammonia vapor.

Storing the urea solution

- It is improper to store the urea solution in the containers made with the certain materials (i.e. aluminum, copper, copper alloy, non-alloyed still, and galvanized steel). The urea solution dissolves the metal materials, severely damaging the exhaust purification system to be non-repairable.
- Store the urea solution only in the containers made with the following materials.
(DIN EN 10 088-1-/2-/3-specified CR-Ni steel, Mo-Cr-Ni steel, polypropylene, and polyethylene)

Urea solution purity

- The following situations may damage the DPF system.
 - Fuels or any unauthorized liquids are added into the urea solution tank.
 - Additives are mixed in the urea solution.
 - Water is added to dilute the urea solution.
- Use only the ISO 22241- or DIN70070-specified urea solution. When any unauthorized urea solution is added to the tank, we recommend you to contact an authorized HYUNDAI dealer.
- When any unauthorized impurities enter the urea solution tank, it may occur the following problems.
 - Increased emission
 - Malfunction with the DPF system
 - Engine failure

Never add the used urea solution, which is drained from the tank (i.e. while maintaining the vehicle). Its purity cannot be guaranteed. Always add the new urea solution.

Specification of the standard urea solution	Liquid such as diesel, gasoline and alcohol shall never be used for SCR system. Any fluid other than recommended urea solution (conform to ISO22241 or DIN70070) can damage SCR system hardware and deteriorate vehicle emission.
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WARNING

- When opening the urea solution tank cap at high outside temperatures, ammonia vapors may escape. Ammonia vapors have a pungent smell and primarily cause irritation of the:
 - Skin
 - Mucous membranes
 - Eyes

You may experience a burning sensation in your eyes, nose and throat, as well as coughing and watering of the eyes. Do not inhale ammonia vapors. Do not allow urea solution to come in direct contact with your skin. It is hazardous to your health. Wash any affected areas off with plenty of clean water. If necessary, consult a doctor.

- When handling with urea solution in closed space, ensure good ventilation. When the bottle of urea solution container is opened, pungent smelling fumes may escape.
- Keep urea solution out of reach of children.
- When urea solution overflows into vehicle surface, wash out vehicle surface with clean water to prohibit corrosion from occurring.

When replenishing, be careful lest the urea solution should overflow.

- In case the vehicle was parked at very low ambient temperature (below 11 degree Celcius) for a long time, the urea solution will be frozen in the urea solution tank. With frozen urea, the tank level may not be detected correctly until the urea solution will be defrosted by activated heater.

Incorrect urea or diluted urea can increase the freezing point, and thus defrosting may not be properly done by the heater which is activated below certain temperatures. This phenomenon may cause malfunction of the SCR system which can lead to the prohibition of engine restarting.

- The time to defrost the urea solution varies in accordance with driving conditions and outside temperatures.



CAUTION

- If defective urea solution or liquid that is not recommended is supplied, there may be damage on the parts of the vehicle such as processing device. If defective fuel is used, foreign objects will be accumulated to SCR catalyst and cause catalyst pushed away or breaking.

After adding the incorrect urea solution, please visit the closest service center as early as possible.

- Liquid that are not recommended such as diesel, gasoline, and alcohol shall never be used other than the recommended urea solution that satisfy ISO22241 or DIN70070.

VETRARAKSTUR

Slæm veðurskilyrði á veturna valda hröðu sliti á hjólbörðum og öðrum vandamálum. Til að lágmarka vandamál við vetrarakstur ættir þú að fara eftir eftirfarandi ábendingum:

Snjór eða háлка

Nauðsynlegt er að halda hæfilegri fjarlægð við næsta ökutæki fyrir framan. Stígðu varlega á bremsurnar. Hraðakstur, skyndileg hröðun, nauðhemlun og krappar beygjur geta falið í sér mikla hættu. Þegar dregið er úr hraða er ráðlegt að beita vélarhemlun sem kostur er. Skyndileg beiting hemla á snævi þöktum eða ísuðum vegum kann að valda því að ökutækið renni til.

Við akstur í djúpum snjó kann að vera nauðsynlegt að nota vetrarhjólar eða setja keðjur á hjólarðana.

Ávallt skal hafa neyðarbúnað meðferðis.

Æskilegur búnaður getur verið snjókeðjur, dráttakaðlar eða -keðjur, vasaljós, neyðarblys, sandur, skófla, startkaplar, ísskafa, hanskar, snjómotta, samfestingar, teppi o.s.frv.

Snjóhjólarðar



VARÚÐ

Snjóhjólarðar ættu að vera af sömu stærð og gerð og stöðluð gerð fyrir ökutækið. Annars getur það haft slæm áhrif á öryggi og akstur bílsins.

Ef þú setur snjóhjólarðana á ökutækið þitt skaltu gæta þess að nota þverbands- og burðarsviði og upprunalegu hjólarðana.

Setjið vetrarhjólarðana á öll fjögur hjólin til að tryggja örugga stýringu ökutækisins við öll veðurskilyrði. Gripið sem snjóhjólarðar veita á þurrum vegum er kannski ekki jafnmikið og upprunalegir hjólarðar ökutækisins veita. Ráðfærið ykkur við söluaðila hjólarðanna um ráðlagðan hámarkshraða.



Upplýsingar

Áður en negldir hjólarðar eru settir á er rétt að kynna sér reglur um notkun slíkra hjólarða á hverjum stað.

Snjókeðjur



OOS060004K

Hliðar þverofinna hjólbarða eru þynnri en á öðrum gerðum hjólbarða og sumar gerðir snjókeðja geta því valdið skemmdum á þeim. Því er ráðlegt að nota vetrarhjólbarða fremur en keðjur, ef þess er kostur. Settu ekki keðjur á hjólbarða á ökutækjum sem búin eru álfelgum. ef óhjákvæmilegt er, notaðu snjókeðju af vírgerð. Ef nota verður dekkjakeðjur skaltu nota ósvikna HYUNDAI hluta eða sambærilegt sem tilgreint er fyrir ökutækið og setja dekkjakeðjuna upp eftir að hafa farið yfir leiðbeiningarnar sem fylgja dekkjakeðjunum.

Ábyrgðartrygging framleiðanda ökutækisins tekur ekki til skemmda á ökutækinu sem hljótast af rangri notkun snjókeðja.

VARÚÐ

Notkun dekkjakeðju getur haft neikvæð áhrif á meðhöndlun ökutækja:

- Akið ekki hraðar en 30 km/klst. eða sem nemur þeim hámarkshraða sem framleiðandi keðjanna mælir með, hvort sem reynist lægra.
- Akið gætilega og sneiðið hjá þústum, holum, kröppum beygjum og öðrum hættum á veginum, sem gætu valdið hristingi ökutækisins.
- Forðist krappar beygjur og læsta hemlun.

i Upplýsingar

- Settu dekkjakeðjur á framdekkin. Það skal tekið fram að það að setja dekkjakeðjur á dekkinn mun veita meiri drifkraft, en kemur ekki í veg fyrir hliðarslit.
- Áður en negldir hjólbarðar eru settir á er rétt að kynna sér reglur um notkun slíkra hjólbarða á hverjum stað.

Uppsetning keðja

Þegar þú ert að setja dekkjakeðjur skaltu fylgja leiðbeiningum framleiðanda og festa þær eins vel og mögulegt er. Keyrðu hægt (innan við 30 km / klst.) Með keðjur uppsettar. Ef þú heyrir keðjurnar hafa samband við yfirbyggingu eða undirvagn skaltu stöðva og herða þær. Ef þeir ná samt sambandi skaltu hægja á þér þar til hávaðinn stöðvast. Fjarlægðu dekkjakeðjurnar um leið og þú byrjar að keyra á vegum sem eru hreinsaðir.

Þegar snjókeðjur eru settar upp skal leggja ökutækinu á sléttum fleti fjarri umferð. Kveikið á hættuljósum ökutækisins og setjið viðvörunarþríhyrning upp fyrir aftan það (ef hann er til staðar). Hafið ökutækið ávallt í handbremsu og drepíð á vélinni áður en snjókeðjur eru settar á.

ATHUGIÐ

Þegar dekkjakeðjur eru notaðar:

- Rangar keðjur eða rangar uppsettar keðjur geta skemmt bremsulínur, fjöðrun, yfirbyggingu og hjól ökutækisins.
- Notaðu SAE „S“ flokk eða virkeðjur.
- Ef þú heyrir hávaða sem stafar af keðjum sem hafa samband við líkamann skaltu herða keðjuna aftur til að koma í veg fyrir snertingu við yfirbyggingu ökutækisins.
- Til að koma í veg fyrir líkamsskemmdir skaltu herða keðjurnar aftur eftir að hafa keyrt 0,5 ~ 1,0 km (0,3 ~ 0,6 mílur).
- Ekki nota dekkjakeðjur á ökutækjum með álhjólum. Ef það verður ekki komist hjá því, notaðu þá virkeðju.
- Notaðu virkeðjur sem eru minna en 12 mm á breidd til að koma í veg fyrir skemmdir á tengingu keðjunnar.