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 dealerships 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 HYUNDAIs.We are very proud of the advanced engineering and high-quality construction of each HYUNDAI we build.

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

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

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

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

HYUNDAI MOTOR 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 2-24 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 DANGER, 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 9 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.

WARNING

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

CAUTION

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

NOTICE

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

FUEL REQUIREMENTS

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 drivability 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 (Manganese, 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 9, “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.

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.
- Fuel economy and engine performance may vary depending on vehicle break-in process and be stabilized after 6,000 km (4,000 miles). New engines may consume more oil during the vehicle break-in period.

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.
- Fuel economy and engine performance may vary depending on vehicle break-in process and be stabilized after 6,000 km (4,000 miles). New engines may consume more oil during the vehicle break-in period.

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.

2. Vehicle information

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EXTERIOR OVERVIEW (I)

■ Front view
• 5 Door



The actual shape may differ from the illustration.

OBC3010001

1. Hood 5-36
2. Headlight 9-71
3. Front fog light 9-75
4. Tires and wheels 9-44
5. Outside rearview mirror 5-24
6. Front windshield wiper blades 9-39
7. Windows 5-27
8. Front ultrasonic sensors 7-137

EXTERIOR OVERVIEW (II)

■ Rear view
• 5 Door



The actual shape may differ from the illustration.

OBC3010002

1. Antenna 5-94
2. Doors 5-13
3. Fuel filler door 5-39
4. Rear ultrasonic sensors 7-137
5. High mounted stop light 9-89
6. Rear view camera* 7-111
7. Rear window wiper blade* 9-39
8. Tailgate 5-37

■ Front view
• N-line

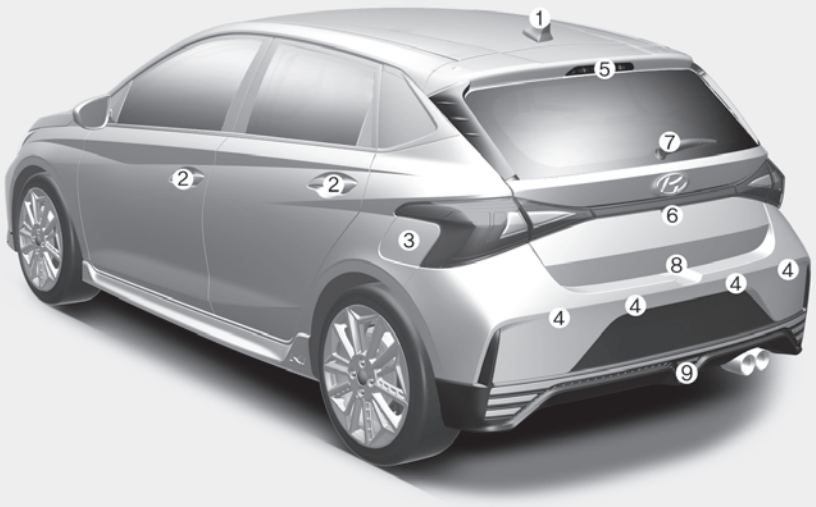


The actual shape may differ from the illustration.

OBC3TN011001

1. Hood 5-36
2. Headlight 9-71
3. Front fog light 9-75
4. Tires and wheels 9-44
5. Outside rearview mirror 5-24
6. Front windshield wiper blades 9-39
7. Windows 5-27
8. Front ultrasonic sensors 7-137

■ Rear view
• N-line



The actual shape may differ from the illustration.

OBC3TN011002

1. Antenna 5-94
2. Doors 5-13
3. Fuel filler door 5-39
4. Rear ultrasonic sensors 7-137
5. High mounted stop light 9-89
6. Rear view camera 7-111
7. Rear window wiper blade 9-39
8. Tailgate 5-37
9. Rear fog light 9-85

■ Front view
• CUV

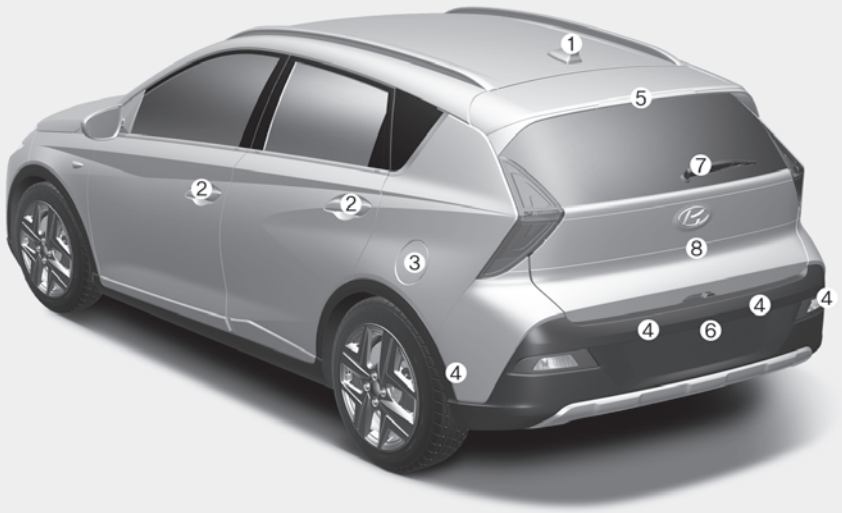


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OBC3V011001

1. Hood 5-36
2. Headlight 9-71
3. Tires and wheels 9-44
4. Outside rearview mirror 5-24
5. Front windshield wiper blades 9-39
6. Windows 5-27
7. Front ultrasonic sensors 7-137

■ Rear view
• CUV



The actual shape may differ from the illustration.

OBC3V011002

1. Antenna.....5-94
2. Doors.....5-13
3. Fuel filler door.....5-39
4. Rear ultrasonic sensors.....7-137
5. High mounted stop lamp.....9-89
6. Rear view camera.....7-111
7. Rear window wiper blade.....9-39
8. Tailgate.....5-37

INTERIOR OVERVIEW (I)

■ Left-hand drive



The actual shape may differ from the illustration.

OBC3010003

1. Door handle 5-15
2. Outside rearview mirror control switch 5-25
3. Outside rearview mirror folding button 5-26
4. Power window switches 5-28
5. Power window lock button 5-31
6. Hood release lever 5-36
7. Headlight leveling device switch 5-47
8. Heated steering wheel switch 5-22
9. Idle Stop and Go on/off switch 6-45
10. Electronic Stability Control(ESC) switch 6-38
11. Tire pressure monitoring system(TPMS) switch 8-11
12. Fuse box 9-53
13. Steering wheel 5-20
14. Seats 3-4
15. Instrument panel illumination control switch 4-4

INTERIOR OVERVIEW (II)

■ Right-hand drive

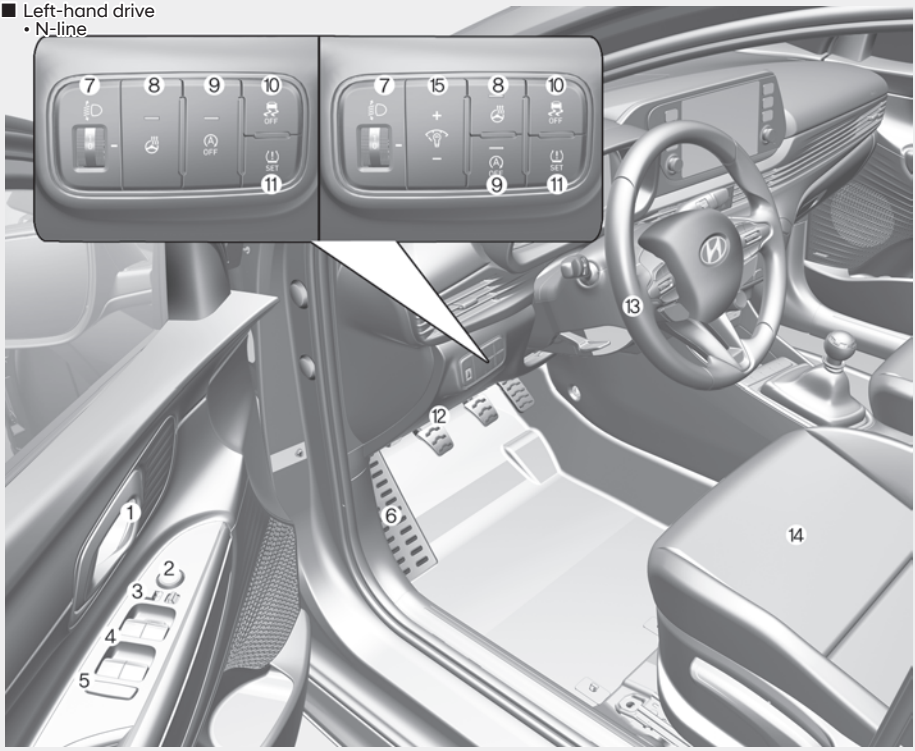


The actual shape may differ from the illustration.

OBC3010003R

1. Door handle 5-15
2. Outside rearview mirror control switch 5-26
3. Outside rearview mirror folding button 5-25
4. Power window switches 5-28
5. Power window lock button 5-31
6. Hood release lever 5-36
7. Headlight leveling device switch 5-47
8. Heated steering wheel switch 5-22
9. Idle Stop and Go on/off switch 6-45
10. Electronic Stability Control(ESC) switch 6-38
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12. Fuse box 9-53
13. Steering wheel 5-20
14. Seats 3-4
15. Instrument panel illumination control switch 4-4

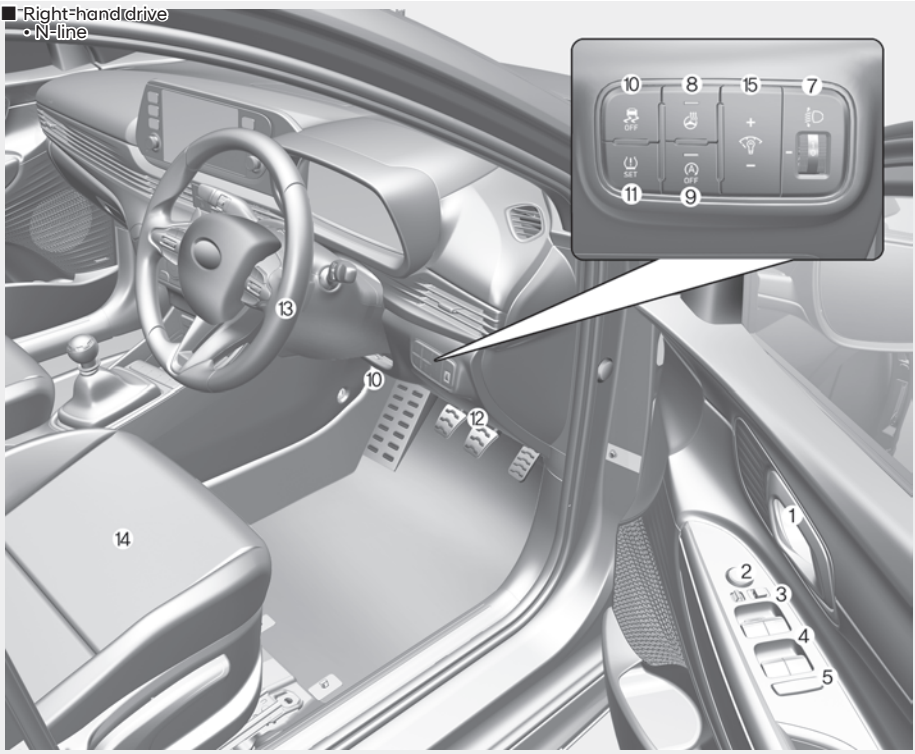
■ Left-hand drive
• N-line



The actual shape may differ from the illustration.

OBC3TN011003

1. Door handle 5-15
2. Outside rearview mirror control switch 5-25
3. Outside rearview mirror folding button 5-26
4. Power window switches 5-28
5. Power window lock button 5-31
6. Hood release lever 5-36
7. Headlight leveling device switch 5-47
8. Heated steering wheel switch 5-22
9. Idle Stop and Go on/off switch 6-45
10. Electronic Stability Control(ESC) switch 6-38
11. Tire pressure monitoring system(TPMS) switch 8-11
12. Fuse box 9-53
13. Steering wheel 5-20
14. Seats 3-4
15. Instrument panel illumination control switch 4-4



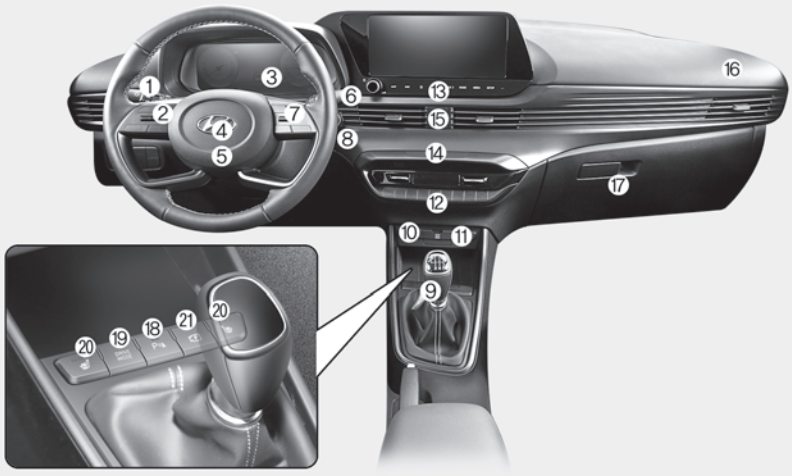
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OBC3TN011003R

1. Door handle 5-15
2. Outside rearview mirror control switch 5-25
3. Outside rearview mirror folding button 5-26
4. Power window switches 5-28
5. Power window lock button 5-31
6. Hood release lever 5-36
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11. Tire pressure monitoring system(TPMS) switch 8-11
12. Fuse box 9-53
13. Steering wheel 5-20
14. Seats 3-4
15. Instrument panel illumination control switch 4-4

INSTRUMENT PANEL OVERVIEW (I)

■ Left-hand drive



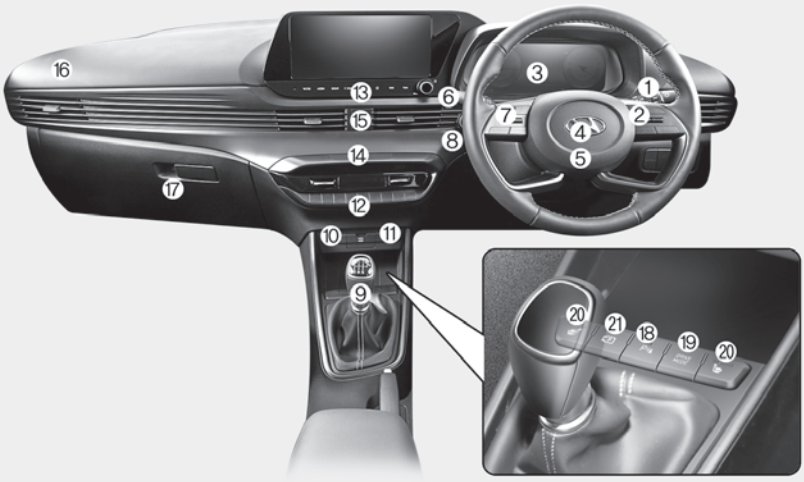
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OBC3010004

1. Lighting control/ Turn signals switch.....5-42
2. Steering wheel audio controls* 5-95
3. Instrument cluster.....4-2
4. Horn 5-22
5. Driver's air bag 3-44
6. Wipers and Washers switch 5-54
7. Driver Assist button 7-31, 7-80, 7-107
8. Ignition switch.....6-5
9. Shift lever.....6-13
10. USB charger 5-87
11. USB port 5-94
12. Climate control system*.....5-57
13. Infotainment system.....5-94
14. Hazard warning light button 8-2
15. Central door lock/unlock button.....5-15
16. Passenger's front air bag.....3-44
17. Glove box.....5-83
18. Parking Safety button.....7-134
19. Drive mode button 6-54
20. Seat warmer switch.....3-18
21. Parking/View button.....7-112

INSTRUMENT PANEL OVERVIEW (II)

■ Right-hand drive

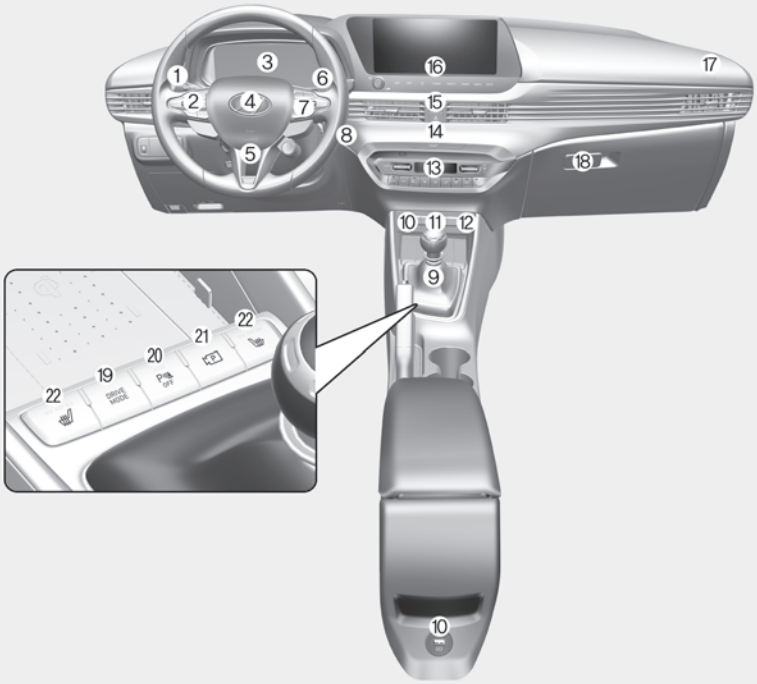


The actual shape may differ from the illustration.

OBC3010004R

1. Lighting control/ Turn signals switch 5-42
2. Steering wheel audio controls* 5-95
3. Instrument cluster 4-2
4. Horn 5-22
5. Driver's air bag 3-44
6. Wipers and Washers switch 5-54
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15. Central door lock/unlock button 5-15
16. Passenger's front air bag 3-44
17. Glove box 5-83
18. Parking Safety button 7-134
19. Drive mode button 6-54
20. Seat warmer switch 3-18
21. Parking/View button 7-112

■ Left-hand drive
• N-line

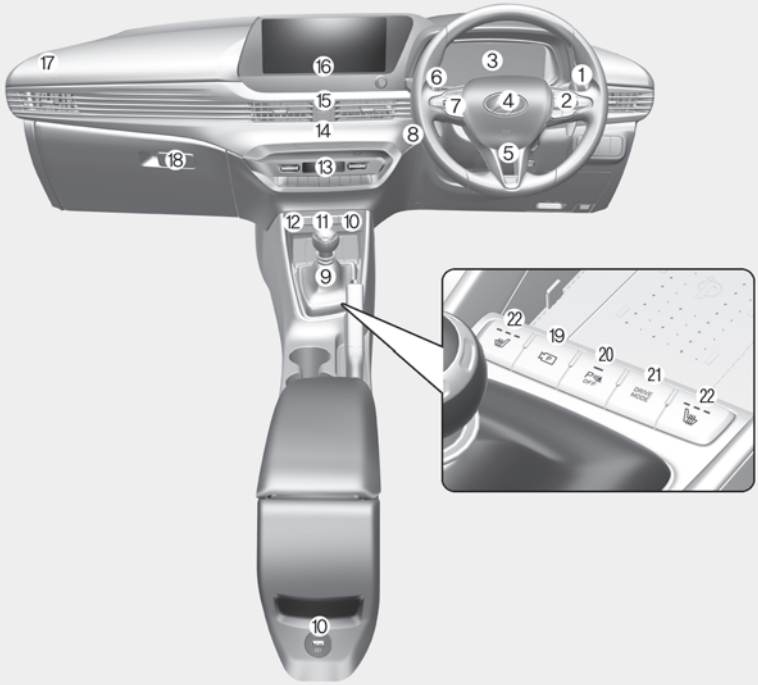


The actual shape may differ from the illustration.

OBC3TN011004

1. Lighting control/Turn signals switch ... 5-42
2. Steering wheel audio controls 5-95
3. Instrument cluster..... 4-2
4. Horn 5-22
5. Driver's air bag 3-44
6. Wipers and Washers switch 5-54
7. Driver Assist button 7-31, 7-80, 7-107
8. Ignition switch..... 6-5
9. Shift lever..... 6-13
10. USB charger 5-87
11. Power outlet..... 5-86
12. USB port 5-94
13. Climate control system 5-57
14. Hazard warning light button..... 8-2
15. Central door lock/unlock button..... 5-15
16. Infotainment system..... 5-94
17. Passenger's front air bag..... 3-44
18. Glove box..... 5-83
19. Electronic Stability Control(ESC) switch 7-134
20. Parking Safety button..... 6-54
21. Parking/View button..... 3-18
22. Seat warmer switch..... 7-112

■ Right-hand drive
• N-line



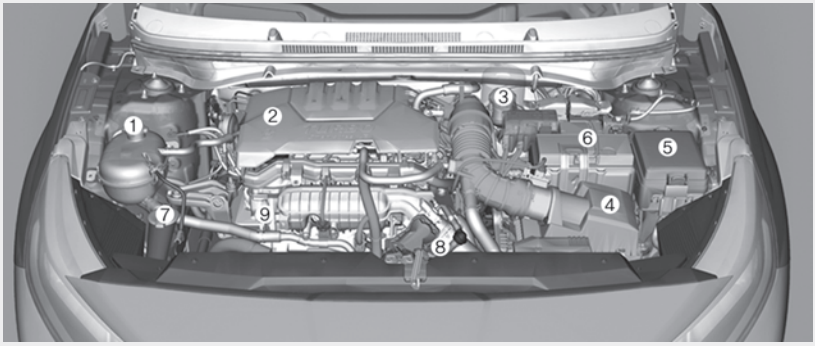
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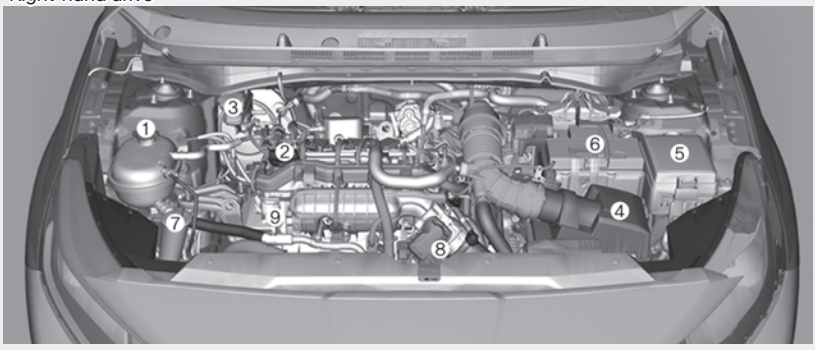
1. Lighting control/Turn signals switch ... 5-42
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19. Electronic Stability Control(ESC) switch 7-134
20. Parking Safety button..... 6-54
21. Parking/View button.....3-18
22. Seat warmer switch..... 7-112

ENGINE COMPARTMENT

■ Smartstream G 1.0 T-GDi / Smartstream G1.0 T-GDi (48V) MHEV
- Left-hand drive



- Right-hand drive

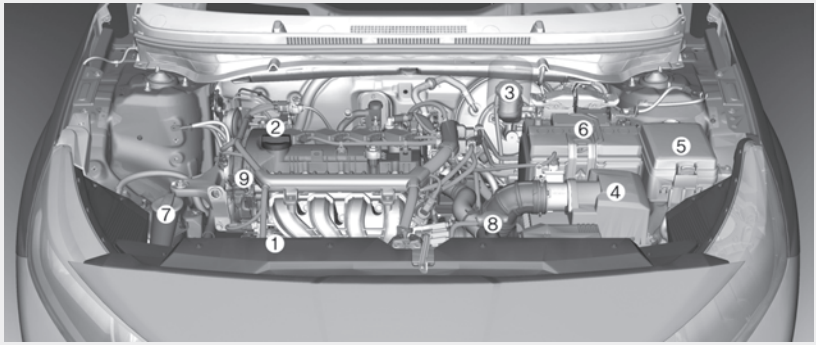


The actual engine room in the vehicle may differ from the illustration.

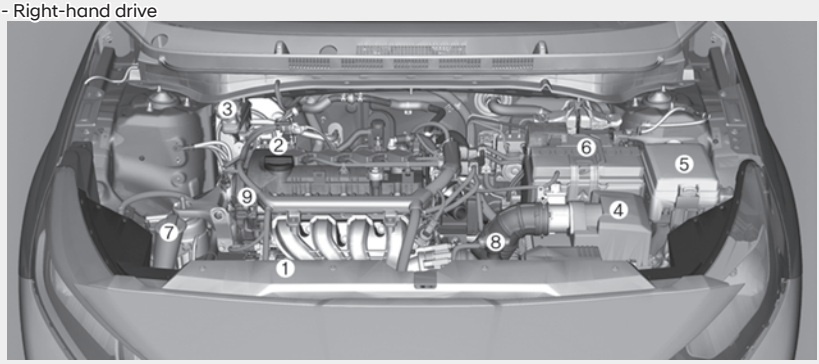
OBC3090001/OBC3090001R

1. Engine coolant reservoir 9-27
2. Engine oil filler cap 9-25
3. Brake/Clutch* fluid reservoir 9-31
4. Air cleaner 9-35
5. Fuse box 9-53
6. Battery 9-40
7. Windshield washer fluid reservoir 9-34
8. Radiator cap 9-28
9. Engine oil dipstick 9-24

■ Smartstream G1.2
- Left-hand drive



- Right-hand drive

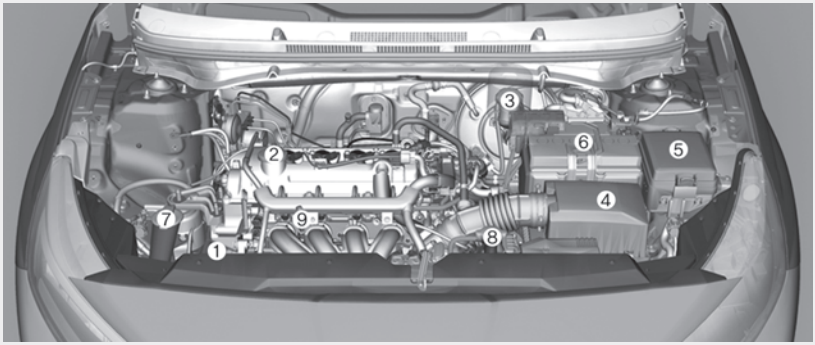


The actual engine room in the vehicle may differ from the illustration.

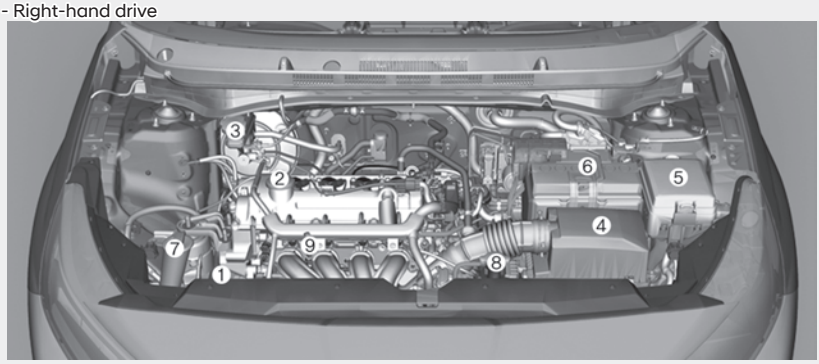
OBC3090003/OBC3090003R

1. Engine coolant reservoir 9-27
2. Engine oil filler cap 9-25
3. Brake/Clutch* fluid reservoir 9-31
4. Air cleaner 9-35
5. Fuse box 9-53
6. Battery 9-40
7. Windshield washer fluid reservoir 9-34
8. Radiator cap 9-28
9. Engine oil dipstick 9-24

■ Gasoline 1.4
- Left-hand drive



- Right-hand drive



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

OBC3090004/OBC3090004R

1. Engine coolant reservoir 9-27
2. Engine oil filler cap 6-25
3. Brake/Clutch* fluid reservoir 9-31
4. Air cleaner 9-35
5. Fuse box 9-53
6. Battery 9-40
7. Windshield washer fluid reservoir 9-34
8. Radiator cap 9-28
9. Engine oil dipstick 9-24

* : if equipped

DIMENSIONS

mm (in.)

Items		5 Door	N-line	CUV
Overall length		4,040 (159.06)	4,075 (160.43)	4,180 (164.56)
Overall width		1,775 (69.88)	1,775 (69.88)	1,775 (69.88)
Overall height		1,450 (57.09)	1,455 (57.28)	1,490 (58.66) / 1,500 (59.05)*
Front tread	185/65R15	1,545 (60.82)	-	1,551 (61.06)
	195/55R16	1,539 (60.59)	-	1,545 (60.82)
	215/45R17	1,531 (60.27)	1,531 (60.27)	-
	205/55R17	-	-	1,546 (60.86)
Rear tread	185/65R15	1,549 (60.98)	-	1,557 (61.29)
	195/55R16	1,543 (60.75)	-	1,551 (61.06)
	215/45R17	1,536 (60.47)	1,536 (60.47)	-
	205/55R17	-	-	1,552 (61.1)
Wheelbase		2,580 (101.57)	2,580 (101.57)	2,580 (101.57)

*: if equipped with roof rack

ENGINE SPECIFICATION

Item	Smartstream G 1.0 T-GDi/ Smartstream G1.0 T-GDi (48V) MHEV	Smartstream G1.2	Gasoline 1.4
Displacement cc (cu. in)	998 (60.90)	1,197 (73.05)	1,368 (83.48)
Bore x Stroke mm (in.)	71.0x84.0 (2.80x3.31)	71.0x75.6 (2.80x2.98)	72.0 x 84.0 (2.83x3.31)
Firing order	1-2-3	1-3-4-2	1-3-4-2
No. of cylinders	3	4	4

BULB WATTAGE

Light bulb			Bulb type	Wattage
Front	Type A	Headlight (Low/High)	H19	60/55
		Turn signal light	PY21W	21
		Position light (if equipped)	W5W	5
	Type B	Headlight (High/Low)	LED	LED
		Turn signal light	LED	LED
		Day running light & Position light(DRL&PSTN)	LED	LED
		Static bending lamp	LED	LED
	Daytime running light (Bulb)		P21W	21
	Daytime running light (LED)		LED	LED
	Side repeater lamp		WY5W	5
	Fog light (if equipped)		HB4	51
Rear	Type A	Tail light	W5W	5
		Tail/Stop light	P21/5W	5/21
		Turn signal light	PY21W	21
	Back up light		P21W	21
	Type B	Tail light	LED	LED
		Stop light	LED	LED
		Turn signal light	PY21W	21
		Back up light	W16W	16
	Fog light		P21W	21
	High mounted stop light		W5W	5
	License plate light		W5W	5
Interior	Room lamp		W5W	8
	Map light		FESTOON	10
	Luggage room light		FESTOON	10

Type A : MFR (Multi Focus Reflector) Headlight

TIRES AND WHEELS

Item	Tire size	Wheel size	Inflation pressure, bar (psi, kPa)				Wheel lug nut torque kgf·m (lbf·ft, N·m)
			Normal load *1		Maximum load		
			Front	Rear	Front	Rear	
Full size tire	185/65R15 (5DR/CUV)	6.0J X 15	2.35 (34, 235)	2.15 (31, 215)	2.4 (35, 240)	2.5 (36, 250)	11~13 (79~94, 107~127)
	195/55R16 (5DR/CUV)	6.0J X 16	2.35 (34, 235)	2.15 (31, 215)	2.4 (35, 240)	2.6 (38, 260)	
	215/45R17 (5DR/ N-line)	7.0J X 17	2.35 (34, 235)	2.15 (31, 215)	2.4 (35, 240)	2.6 (38, 260)	
	205/55R17 (CUV)	6.5J X 17	2.35 (34, 235)	2.15 (31, 215)	2.4 (35, 240)	2.6 (38, 260)	
Full size tire (ECO pack)	185/65R15	6.0J X 15	2.5 (36, 250)	2.3 (33, 230)	2.5 (36, 250)	2.5 (36, 250)	
Temporary tire	T125/80D15	3.5JX15	4.2 (60, 420)				
	T125/80D16 (CUV)	4.0T X 16	4.2 (60, 420)				

*1 : Normal load : Up to 3 persons

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).

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.

AIR CONDITIONING SYSTEM

Item	Weight of volume	Classification
Refrigerant	470 ± 25 g (15.17 ± 0.8)	R-1234yf
g (oz.)	500 ± 25 g (16.07 ± 0.8)	R-134a
Compressor lubricant g (oz.)	100 (3.52)	PAG

Contact an authorized HYUNDAI dealer for more details.

TIRE LOAD AND SPEED CAPACITY

Item	Tire size	Wheel size	Load capacity		Speed capacity	
			LI *1	kg	SS *2	km/h
Full size tire	185/65R15 (5DR/CUV)	6.0J X 15	88	560	H	210
	195/55R16 (5DR/CUV)	6.0J X 16	87	545	H	210
	215/45R17 (5DR/N-line)	7.0J X 17	91	615	V	240
					Y	300
	205/55R17 (CUV)	6.5Jx17	91	615	V	240
Temporary tire	T125/80D15	3.5JX15	95	690	M	130
	T125/80D16 (CUV)	4.0T X 16	97	730	M	130

*1 LI : LOAD INDEX

*2 SS : SPEED SYMBOL

GROSS VEHICLE WEIGHT

kg (lbs.)

Smartstream G 1.0 T-GDi		Smartstream G 1.0 T-GDi (48V) MHEV		Smartstream G 1.2	Gasoline 1.4	
6 M/T	7 DCT	6 M/T	7 DCT	5 M/T	6 M/T	6 A/T
1,600 (3,527)	1,630 (3,593)	1,620 (3,571)	1,650 (3,637)	1,550 (3,417)	1,560 (3,439)	1,590 (35.05)

- CUV

Smartstream G 1.0 T-GDi		Smartstream G 1.0 T-GDi (48V) MHEV		Smartstream G 1.2	Gasoline 1.4	
6 M/T	7 DCT	6 M/T	7 DCT	5 M/T	6 M/T	6 A/T
1630 (3,593)	1660 (3,659)	1660 (3,659)	1680 (3,545)	1580 (3,483)	1590 (3,505)	1620 (3,571)

M/T : Manual transmission

A/T : Automatic transmission

DCT : Dual clutch transmission

LUGGAGE VOLUME

VDA *l* (cu ft)	MIN.	352 (12.4)/401 (14.16)*
	MAX.	1,165 (41.14)/1205 (42.55)*

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

Max : Behind front seat to roof.

* : CUV

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 (drain and refill) Shell HELIX Motor oils	Smartstream G 1.0 *2 T-GDi/Smartstream G1.0 T-GDi (48V) MHEV		3.6 ℓ (3.8 US qt.)	SAE 0W20, API SN PLUS/SP or ILSAC GF-6
	Smartstream G1.2 *2		3.4 ℓ (3.6 US qt.)	
	Gasoline 1.4 *3		3.5 ℓ (3.7 US qt.)	SAE 5W20, API Latest(ILSAC Latest)
Manual transmission fluid	Smartstream G 1.0 T-GDi/Smartstream G1.0 T-GDi (48V) MHEV		1.5~1.6 ℓ (1.58~1.69 US qt.)	API GL-4, SAE 70W - SK : HK SYN MTF 70W - H.K.SHELL : SPIRAX S6 GHME 70W MTF - GS CALTEX : GS MTF HD 70W
	Smartstream G 1.2		1.3~1.4 ℓ (1.37~1.48 US qt.)	
	Gasoline 1.4		1.5~1.6 ℓ (1.58~1.69 US qt.)	
Intelligent manual transmission system actuator fluid	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
Automatic transmission fluid	Gasoline 1.4		7.2 ℓ (7.6 US qt.)	ATF SP-IV - SK ATF SP-IV - MICHANG ATF SP-IV - NOCA ATF SP-IV - Hyundai Genuine ATF SP-IV - GS ATF SP-IV
Dual clutch transmission fluid	Smartstream G 1.0 T-GDi/Smartstream G1.0 T-GDi (48V) MHEV		1.6~1.7 ℓ (1.69~1.78 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)
Coolant	Smartstream G 1.0 T-GDi/		5.77 ℓ (6.09 US qt.)	MIXTURE, Antifreeze with water (Ethylene glycol base coolant for aluminum radiator)
	Smartstream G1.0 T-GDi (48V) MHEV		5.85 ℓ (6.18 US qt.)	
	Smartstream G 1.2	5M/T	4.66 ℓ (4.92 US qt.)	
	Gasoline 1.4	6A/T	4.50 ℓ (4.75 US qt.)	
		6M/T	4.35 ℓ (4.59 US qt.)	

Lubricant	Volume	Classification
Brake/Clutch fluid	0.7~0.8 ℓ (0.7~0.8 US qt.)	FMVSS116 DOT-4
Fuel	40 ℓ (10.56 US gal.)	-

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

*2 : 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

*3 : Requires <API Latest(ILSAC Latest) 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

Recommended SAE viscosity number

CAUTION

Always be sure to clean the area around any filler plug, drain plug, or dipstick before checking or draining any lubricant. This is especially important in dusty or sandy areas and when the vehicle is used on unpaved roads. Cleaning the plug and dipstick areas will prevent dirt and grit from entering the engine and other mechanisms that could be damaged.

Engine oil viscosity (thickness) has an effect on fuel economy and cold weather operating (engine start and engine oil flowability). Lower viscosity engine oils can provide better fuel economy and cold weather performance, however, higher viscosity engine oils are required for satisfactory lubrication in hot weather. Using oils of any viscosity other than those recommended could result in engine damage.

When choosing an oil, consider the range of temperature your vehicle will be operated in before the next oil change.

Proceed to select the recommended oil viscosity from the chart.

Temperature Range for SAE Viscosity Numbers

Temperature	°C	-30	-20	-10	0	10	20	30	40	50
	(°F)	-10	0	20	40	60	80	100	120	
Smartstream G1.2/ G1.0 T-GDI/48V MHEV *1		0W-20								
Gasoline 1.4 *1		10W-30								
		15W-40								
		20W-50								
		0/5W-20, 0/5W-30								

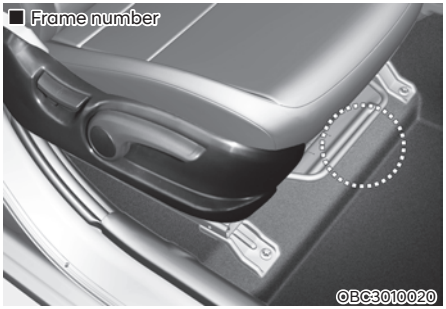
*1 : If mineral oil or semi-synthetic oil is used, it is a severe maintenance condition in terms of engine oil change.



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.

VEHICLE IDENTIFICATION NUMBER (VIN)

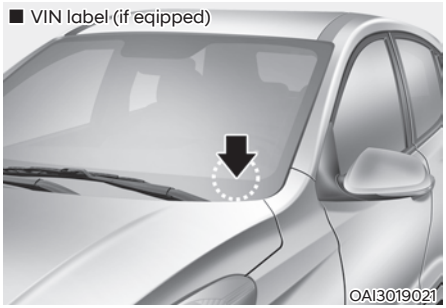
■ Frame number



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 front right side seat. To check the number, open the cover.

■ VIN label (if eqipped)



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

VEHICLE CERTIFICATION LABEL



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

TIRE SPECIFICATION AND PRESSURE LABEL

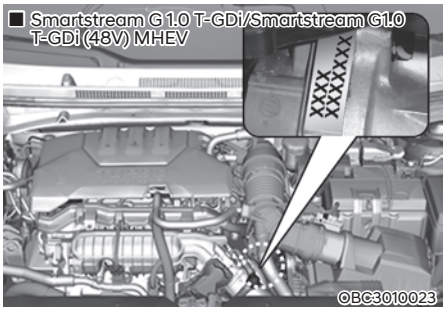

OBC3010021

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

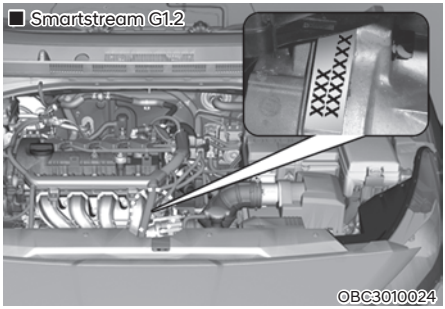
The tire label located on the left side center pillar gives the tire pressures recommended for your vehicle.

ENGINE NUMBER

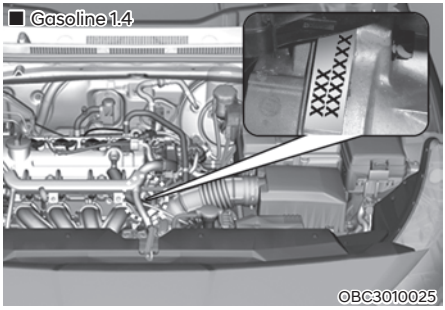
■ Smartstream G 1.0 T-GDi/Smartstream G1.0 T-GDi (48V) MHEV


OBC3010023

■ Smartstream G1.2

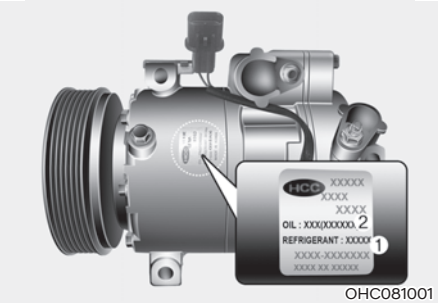

OBC3010024

■ Gasoline 1.4


OBC3010025

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

AIR CONDITIONER COMPRESSOR LABEL

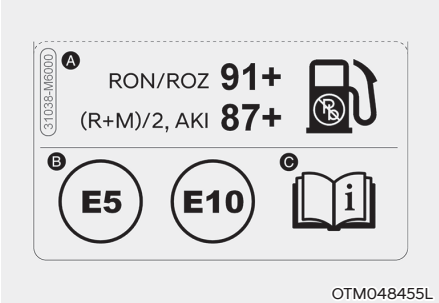


OHC081001

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).

FUEL LABEL (IF EQUIPPED)

The fuel label is attached on the fuel filler door.



OTM048455L

A. Octane rating of unleaded Gasoline (Petrol)
   1) RON/ROZ: Research Octane Number
   2) (R+M)/2, AKI: Anti Knock Index
B. Identifiers for Petrol-type fuels
   ※ This symbol means usable fuel. Do not use any other fuel.
C. For further details, refer to “Fuel Requirement” in chapter 1.

DECLARATION OF CONFORMITY (IF EQUIPPED)



CE0678

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

Further information including the manufacturer's declaration of conformity is available on Hyundai web site as follows:

http://service.hyundai-motor.com

3. Safety system

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IMPORTANT SAFETY PRECAUTIONS

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

Always wear your seat belt

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

Restrain all children

All children under age 13 should ride in your vehicle properly restrained in a rear seat, not the front seat. Infants and small children should be restrained in an appropriate Child Restraint Systems. 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:

- ALWAYS set up your mobile devices (i.e., MP3 players, phones, navigation units, etc.) when your vehicle is parked or safely stopped.
- ONLY use your mobile device when allowed by laws and 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 hand-held 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

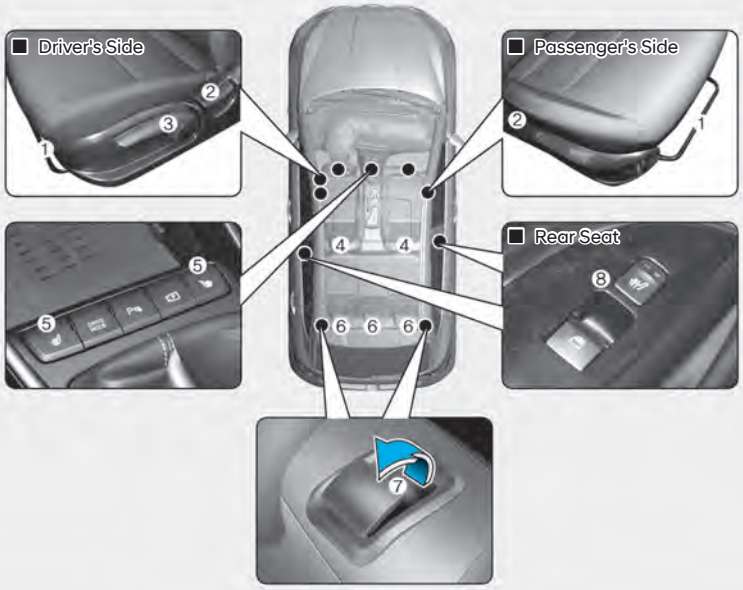
Excessive speed is a major factor in crash injuries and deaths. Generally, the higher the speed, the greater the risk, but serious injuries can also occur at lower speeds. Never drive faster than is safe for current conditions, regardless of the maximum speed posted.

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



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

OBC3030001

Front seats

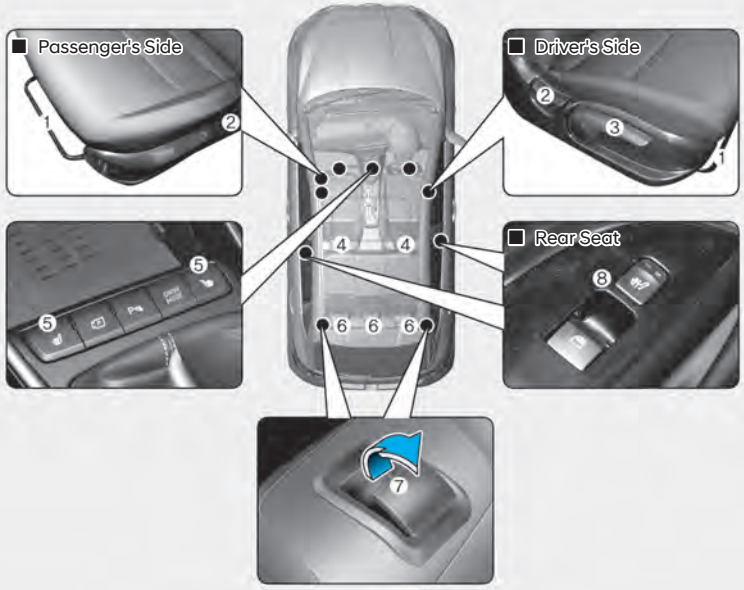
1. Forward and backward
2. Seatback angle
3. Seat cushion height*
4. Headrest
5. Seat warmer*

Rear seats

6. Headrest (outboard and/or center*)
7. Seatback folding
8. Seat warmer *

*: if equipped

■ Right-hand drive



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

OBC3030001R

Front seats

1. Forward and backward
2. Seatback angle
3. Seat cushion height*
4. Headrest
5. Seat warmer*

Rear seats

6. Headrest (outboard and/or center*)
7. Seatback folding
8. Seat warmer *

*: if equipped

Safety precautions

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

WARNING

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

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 while maintaining the ability to maintain full control of the vehicle.**
- **Adjust the front passenger seat as far to the rear as possible.**
- **Hold the steering wheel by the rim with hands at the 9 o'clock and 3 o'clock positions to minimize the risk of injuries to your hands and arms.**
- **NEVER place anything or anyone between the 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 in a passenger's lap.**
- **Do not route the seat belt across your neck, across sharp edges, or reroute the shoulder strap away from your body.**
- **Do not allow the seat belt to become caught or jammed.**

Front seats

The front seat can be adjusted by using the control lever 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 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.**

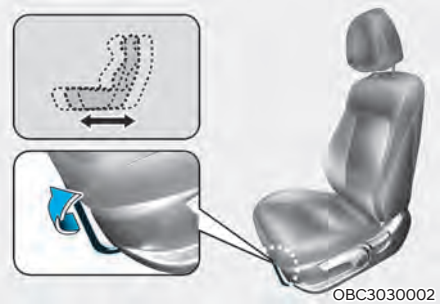
- **If there are occupants in the rear seats, be careful while adjusting the front seat position.**
- **Make sure that the seat is locked in place after the adjustment. If not, the seat might move unexpectedly resulting in an accident.**

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.**

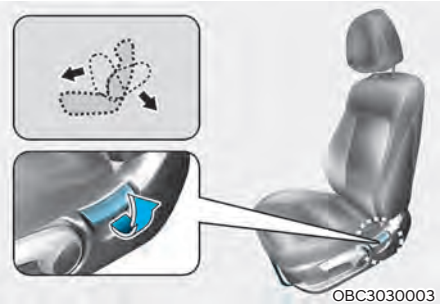
Forward and rearward adjustment



To move the seat forward or rearward:

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

Seatback angle


OBC3030003

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 lever and make sure the seatback is locked in place. (The lever MUST return to its original position for the seatback to lock.)

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.

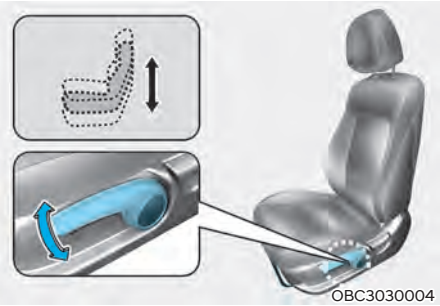
Drivers and passengers should ALWAYS sit well back in their seats, properly belted, and with the seatbacks upright.

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 twined around the seat belt, causing neck or other injuries.

As much as the seatback is reclined, the chance of the passenger's hips will slide under the lap belt or the passenger's neck will strike the shoulder belt is greater.

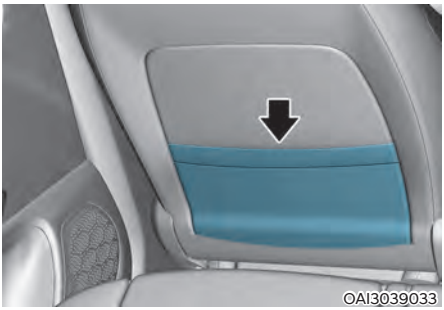
Seat cushion height (for driver's seat, if equipped)



To change the height of the seat cushion:

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

Seatback pocket (if equipped)



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

CAUTION

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

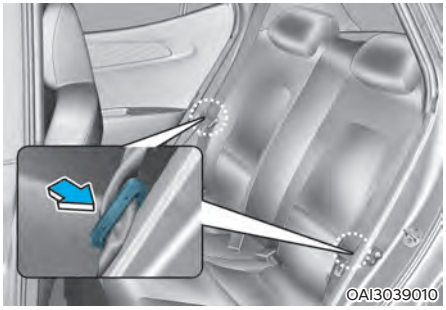
Rear seats (if equipped)

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.**

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 (if equipped with adjustable headrests).



3. Insert the rear lap/shoulder belt plate into the holder on the side trim. It will prevent the lap/shoulder belt from interfering with the seatback when folding.





4. Pull up the seatback lever and fold the seatback toward the front of the vehicle.

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

When returning the rear seatbacks to the upright position, remember to return the rear shoulder belts to their proper position.

WARNING

When you return the rear seatback to its upright position after being folded down:

Be careful not to damage the seat belt webbing or buckle. Do not allow the seat belt webbing or buckle to get caught or pinched in the rear seat. Ensure that the seatback is completely locked into its upright position by pushing on the top of the seatback. Otherwise, in an accident or sudden stop, the seat could fold down and allow cargo to enter the passenger compartment, which could result in serious injury or death.

NOTICE

- **When returning the rear seatbacks to the upright position, remember to return the rear shoulder belts to their proper position.**
- **Routing the seat belt webbing through the rear seat belt guides will help keep the seat belts from being trapped behind or under the seats.**

WARNING

Cargo

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.

WARNING

Cargo loading

Make sure the engine is off, the Automatic transmission/Dual clutch transmission is in N (Neutral) or the Manual transmission is in R (Reverse) or the 1st gear, 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.

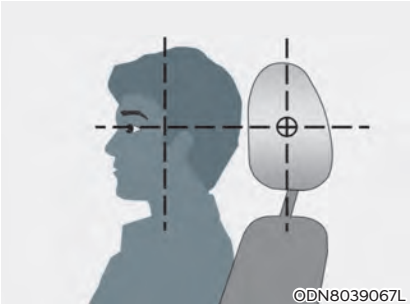
Headrest

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 headrests 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.**

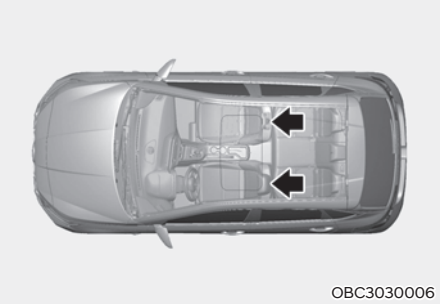
NOTICE

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

CAUTION

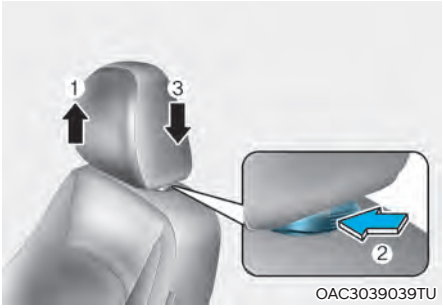
When there is no occupant in the rear seats, adjust the height of the headrest to the lowest position. The rear seat headrest can reduce the visibility of the rear area.

Front seat headrests



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



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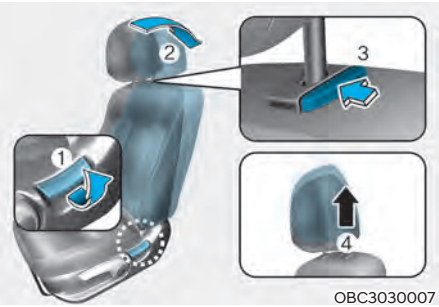
Adjusting the height up and down

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).



OBC3030007

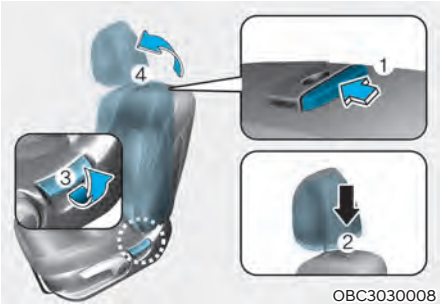
Removal/Reinstall

To remove the headrest:

1. Recline the seatback (2) using the seatback lever (1).
2. Raise 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.



OBC3030008

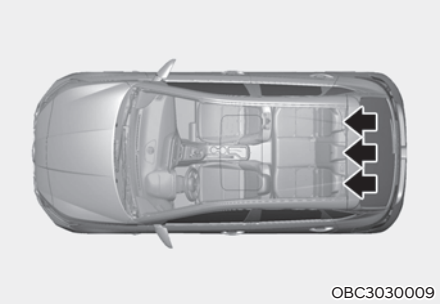
To reinstall the headrest:

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) with the seatback lever (3).

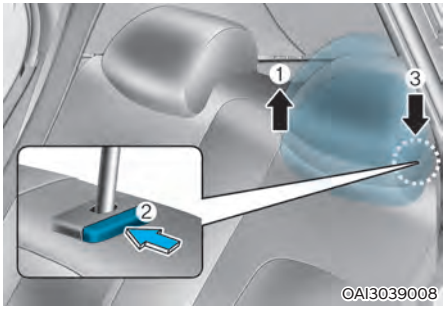
WARNING

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.



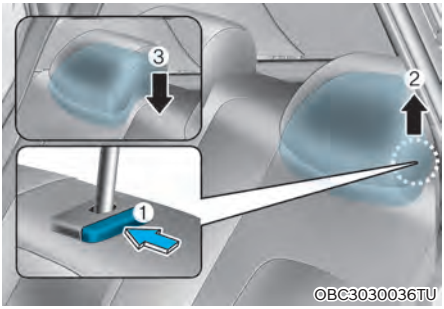
Adjusting the height up and down

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 and installation

To remove the headrest:

1. Raise the headrest as far as it can go.
2. Press the 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 (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 or air ventilation system.**



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:

OFF→HIGH (▮▮▮)→MIDDLE (▮▮)→LOW (▮)
↑_____

- The seat warmer defaults to the OFF position whenever the ignition switch is turned on.
- When pressing the switch for more than 1.5 seconds with the seat warmer operating, the seat warmer will turn OFF.

Rear Occupant Alert (ROA) (if equipped)

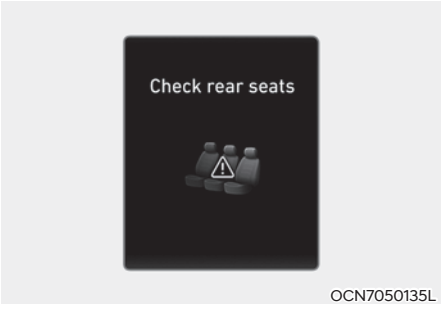
Rear Occupant Alert is provided to help prevent the driver from leaving the vehicle with the rear passenger left in the vehicle.

System setting

To use Rear Occupant Alert, it must be enabled from the Settings menu in the infotainment system screen. Select:

- Setup → Vehicle Settings → Convenience → Rear Occupant Alert

System operation



When you open the front door after opening and closing the rear door and turning off the engine, the 'Check rear seats' warning message appears on the cluster.

WARNING

Rear Occupant Alert does not actually detect objects or people in the rear seat. By using a rear door opened and closed history, the system informs the driver that there may be something in the rear seat.

CAUTION

Rear Occupant Alert uses a rear opened and closed history.

The history is reset after the drive turns off ignition normally, gets off the vehicle and locks the door remotely using the remote keyless entry. So even if a rear door does not reopen, Rear Occupant Alert alerts can occur.

For example, after Rear Occupant Alert alerts occur, if the driver does not lock the door then ride and drive again, the alert can occur.

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 (if equipped) are designed to supplement the seat belt as an additional safety device, but they are not a substitute. Most countries require all occupants of a vehicle to wear seat belts.

WARNING

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

- **ALWAYS properly restrain children under age 13 in the rear seats.**
- **NEVER allow children to ride in the front passenger seat. If a child age 13 or older must be seated in the front seat, move the seat as far back as possible and properly restrain them in the seat.**
- **NEVER allow an infant or child to be carried on an occupant's lap.**
- **NEVER ride with the seatback reclined when the vehicle is moving.**
- **Do not allow children to share a seat or seat belt.**
- **Do not wear the shoulder belt under your arm or behind your back.**
- **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 prevent the seat belt adjusting devices from operating to remove slack, or prevent the seat belt assembly from being adjusted to remove slack.**

WARNING

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

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

Seat belt warning light

Driver's seat belt

■ Instrument cluster



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

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

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

Front passenger's seat belt (if equipped)

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

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

If you start to drive without the seat belt fastened or you unfasten the seat belt when you drive under 20 km/h (12 mph), 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 20 km/h (12 mph), 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

- **Although the front passenger seat is not occupied, the seat belt warning light will blink or illuminate for 6 seconds. Also, when the front passenger gets off the vehicle while the warning is activating, the warning may continue for 6 seconds even after the passenger gets off.**
- **The front passenger's seat belt warning may operate when luggage, laptop or other electronic device is placed on the front passenger seat.**

Rear seat belt warning (if equipped)



Rear center seat (or all rear seat)

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 corresponding warning light will illuminate until the seat belt is fastened.

If you start to drive without the seat belt fastened or you unfasten the seat belt when vehicle speed is under 20 km/h (12 mph), 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 vehicle speed is 20 km/h (12 mph) or faster, the seat belt warning chime will sound for approximately 35 seconds and the corresponding warning light will blink.

When the seat belt is unfastened while driving, the warning lights will illuminate when vehicle speed is below 20 km/h (12 mph).

When vehicle speed is 20 km/h (12 mph) or faster, the warning light will blink and warning chime will sound for approximately 35 seconds.

Rear left / right side seat (if equipped)

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.

Whether or not a passenger is seated:

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 the corresponding warning light will continue to illuminate for approximately 70 seconds regardless of vehicle speed.

If you unfasten the seat belt when vehicle speed is below 20 km/h (12 mph), the corresponding warning light will illuminate for approximately 70 seconds. If you unfasten the seat belt when vehicle speed is above 20 km/h (12 mph), the seat belt warning chime will sound for approximately 35 seconds and the corresponding warning light will blink.

If the rear door is opened while driving below 20 km/h (12 mph), the warning light and warning sound will not operate even if vehicle speed is above 20 km/h (12 mph).

WARNING

Riding in an improper position adversely affects the rear 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

- **Although the rear passenger seat is not occupied, the seat belt warning light will blink or illuminate for 6 seconds.**
- **The rear passenger's seat belt warning may operate when luggage, laptop or other electronic device is placed on the rear passenger seat.**

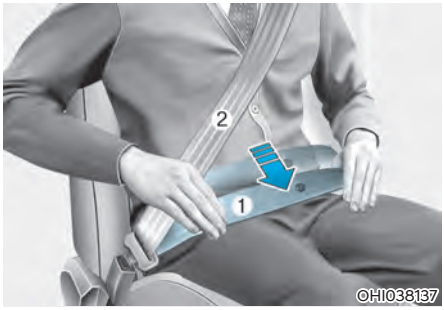
Seat belt restraint system

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

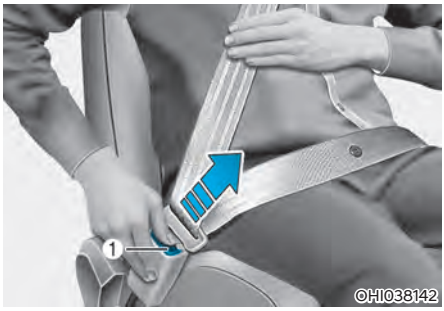
If you are not able to smoothly pull enough of the seat belt out from the retractor, firmly pull the seat belt out and release it. After release, you will be able to pull the belt out smoothly.

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 locked position at the appropriate height.**
- **Never position the shoulder belt across your neck or face.**

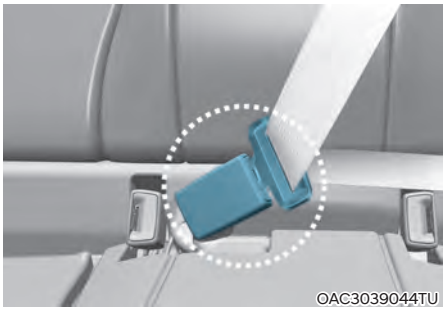


To release your seat belt:

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

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

Rear center seat belt (if equipped)



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

Information

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

Pre-tensioner seat belt (if equipped)



[1]: Retractor pre-tensioner seat belt

Your vehicle is equipped with driver’s and front passenger’s Pre-tensioner Seat Belts (Retractor Pre-tensioner). 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 (if equipped with load limiter).

CAUTION

The pre-tensioner will activate not only in a frontal collision but also in a side collision, if the vehicle is equipped with a side or curtain air bag.

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.**

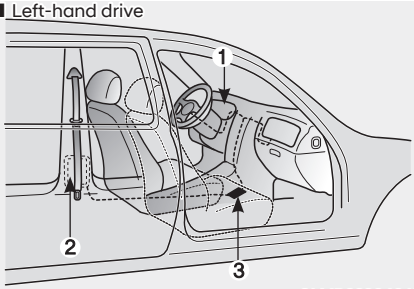
WARNING

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

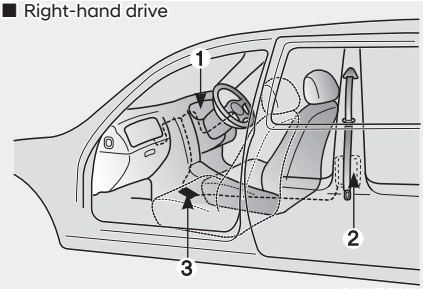
Body work on the front area of the vehicle may damage the pre-tensioner seat belt system. Therefore, we recommend that the system be serviced by an authorized HYUNDAI dealer.

■ Left-hand drive



OLMB033040/Q

■ Right-hand drive



8KMB3311/H

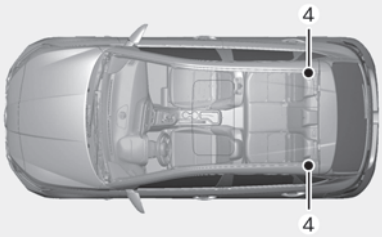
The Pre-Tensioner Seat Belt System consists mainly of the following components. Their locations are shown in the illustration above:

(1) SRS air bag warning light

(2) Front retractor pre-tensioner (if equipped)

(3) SRS control module

■ Rear



OBC3030012

(4) Rear retractor pre-tensioner (if equipped)

NOTICE

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

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

NOTICE

- **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 breathed 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 Systems laws which require children to travel in approved Child Restraint Systems devices, including booster seats. The age at which seat belts can be used instead of Child Restraint Systems differs among countries, so you should be aware of the specific requirements in your country, and where you are travelling. Infant and Child Restraint Systems must be properly placed and installed in a rear seat. For more details, 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 tear off 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 restraint 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 must always occupy the rear seat and use the available lap/shoulder belts. A seat belt should lie across the upper thighs and be snug across the shoulder and chest to restrain the child safely. Check belt fit periodically. A child's squirming could put the belt out of position. Children are afforded the most safety in the event of an accident when they are restrained by a proper restraint system and/or seat belts in the rear seat.

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 twined with 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.

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 rear seats of the vehicle, unless the air bag on the front passenger seat is deactivated.

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

Children under age 13 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 Child Restraint Systems 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 placed and installed in the rear seat. You must use a commercially available Child Restraint System that meets the requirements of the Safety Standards of your country.

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

Child Restraint System (CRS) always in the rear

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

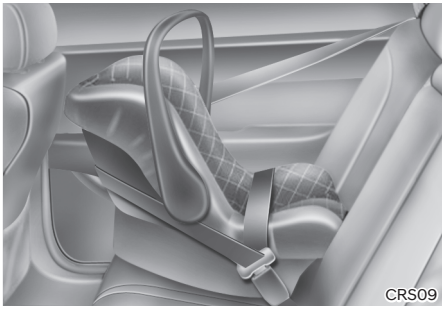
Selecting a Child Restraint System (CRS)

When selecting a CRS for your child, always:

- Make sure a CRS has a label certifying that it meets applicable Safety Standards of your country.
- Select a CRS based on your child's height and weight. The required label or the instructions for use typically provide this information.
- Select a CRS 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 a CRS.

Child Restraint System types

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



Rearward-facing Child 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 system, 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 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 your child's stronger body parts. 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 and checking that the Child Restraint System fits properly in the rear of this vehicle, you are ready to install the Child Restraint System according to the manufacturer's instruction. There are three general steps in installing the Child Restraint Systems properly:

- **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.
- **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 (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.

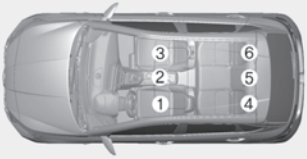
Suitability of each seating position for belted & ISOFIX Child Restraint Systems (CRS)according to UN regulations (Information for use by vehicle users and CRS manufacturers)

- 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						
		1	2	3		4	5	6
				Airbag ON	Airbag OFF			
Universal belted CRS [1]	All mass groups	-	-	No	Yes [1] (F,R)	Yes (F,R)	Yes [2] F,R	Yes (F,R)
i-size CRS	ISOFIX CRF: F2, F2X, R1, R2	-	-	No	No	Yes (F,R)	No	Yes (F,R)
Carry-cot (ISOFIX lateral facing CRS)	ISOFIX CRF: L1, L2	-	-	No	No	No	No	No
ISOFIX infant CRS (i.e. CRS for a baby)	ISOFIX CRF: R1	-	-	No	No	Yes (R)	No	Yes (R)
ISOFIX toddler CRS - small	ISOFIX CRF: F2,F2X,R2,R2X	-	-	No	No	Yes (F,R)	No	Yes (F,R)
ISOFIX toddler CRS – large* (*: not booster seats)	ISOFIX CRF: F3,R3	-	-	No	No	Yes (F,R)	No	Yes (F,R)
Booster Seat – reduced Width	ISO CRF: B2	-	-	Yes	Yes	Yes	Yes	Yes
Booster Seat – full Width	ISO CRF: B3	-	-	Yes	Yes	Yes	Yes	Yes
F: Forward facing R: Rearward facing								

Note [1]: To install Universal CRS to 2nd row seating positions, 1st row seat should be adjusted forward properly.

Note [2]: Never install CRS with a support leg on 2nd row center seating position.

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

❈ If the vehicle headrest prevents proper installation of a CRS, the headrest of the seating position shall be readjusted or entirely removed

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

Recommended CRS for Vehicle according to UN regulations

(Information for use by vehicle users and CRS manufacturers)

Mass group	Name	Manufacturer	Type of Fixation	ECE Approval Number
Group 0+	BABY-SAFE 2 i-SIZE and BABY-SAFE i-SIZE BASE	Britax Römer	ISOFIX with support leg, rearward facing	R129/00 - E1 – 000008
Group 1	Duo Plus	Britax Römer	ISOFIX and top-tether	R44/04 - E1 – 04301133
Group 2	KidFix III S	Britax Römer	ISOFIX and vehicle belt, using CRS lap belt guide	R44/04 - E1 – 04301304
Group 3	Junior III	Graco	Vehicle belt	R44/04 – E11 – 03.44.165

CRS Manufacturer information

Britax: http://www.britax.com

Graco: http://www.gracobaby.com

ISOFIX anchorage and top-tether anchorage (ISOFIX anchorages system) for children

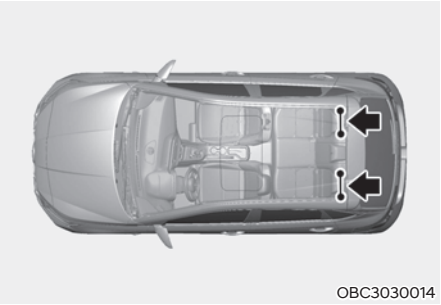
The ISOFIX system holds a Child Restraint System during driving and in an accident. This system is designed to make installation of the Child Restraint System easier and reduce the possibility of improperly installing your Child Restraint System.

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. (An ISOFIX Child Restraint System may only be installed if it has vehicle-specific or universal approval in accordance with the requirements of ECE-R44 or ECE-R129.)

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

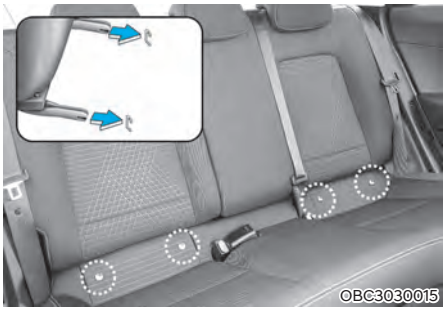


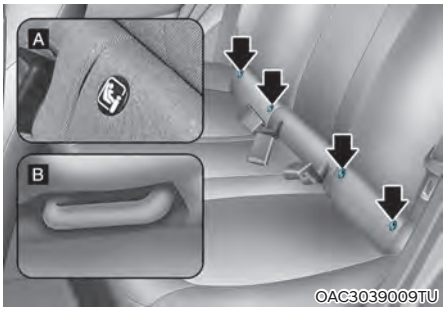
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ISOFIX anchorages have been provided in the left and right outboard rear seating positions. Their locations are shown in the illustration. There are no ISOFIX anchorages provided for the center rear seating position.

WARNING

Do not attempt to install a Child Restraint System using ISOFIX anchorages in the rear center seating position. There are no ISOFIX anchorages provided for this seat. 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

The ISOFIX anchorages symbols are located on the left and right rear seat cushions to identify the position of the ISOFIX anchorages in your vehicle (see arrows in illustration). Both rear outboard seats are equipped with a pair of ISOFIX anchorages as well as a corresponding top-tether anchorage on the back side of the rear seats.

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

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

To use the ISOFIX anchorages, open the zipper if equipped.

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

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

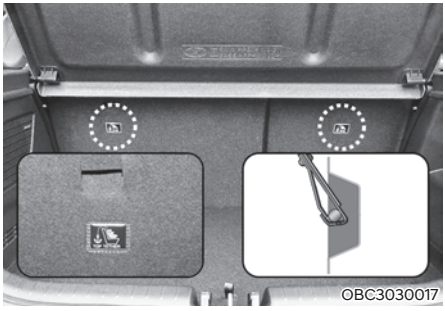
1. Move the seat belt buckle away from the ISOFIX anchorages.
2. Move any other objects away from the anchors that could prevent a secure connection between the Child Restraint System and the ISOFIX anchorages.
3. Place the Child Restraint System on the vehicle seat, then attach the seat to the ISOFIX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

WARNING

Take the following precautions when using the ISOFIX system:

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

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



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



1. Route the Child Restraint System seat strap over the seatback.

   For vehicles with adjustable headrest, route the tether strap under the headrest and between the headrest posts, otherwise route the tether strap over the top of the seatback.
2. Connect the top-tether to the top-tether anchorage, then tighten the top-tether according to the instructions of your Child Restraint System's manufacturer to firmly attach the Child Restraint System to the seat.

WARNING

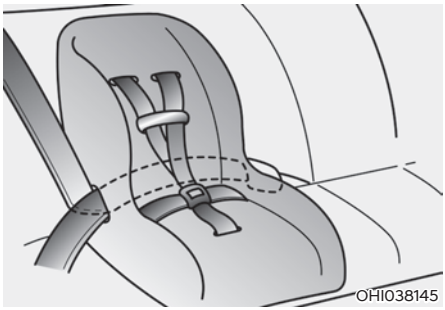
Take the following precautions when installing the top-tether:

- **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 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.



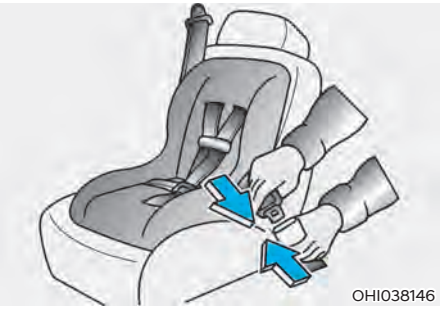
Installing a Child Restraint System with a lap/shoulder belt

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 restraint, following the restraint manufacturer's instructions. Make sure the seat belt webbing is not twisted.

Information

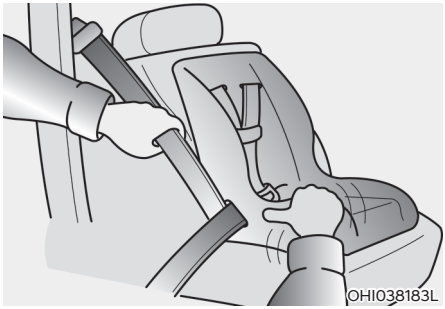
When using the rear center seat belt, you should also refer to the "Rear Center Seat Belt" in this chapter.



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

Information

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

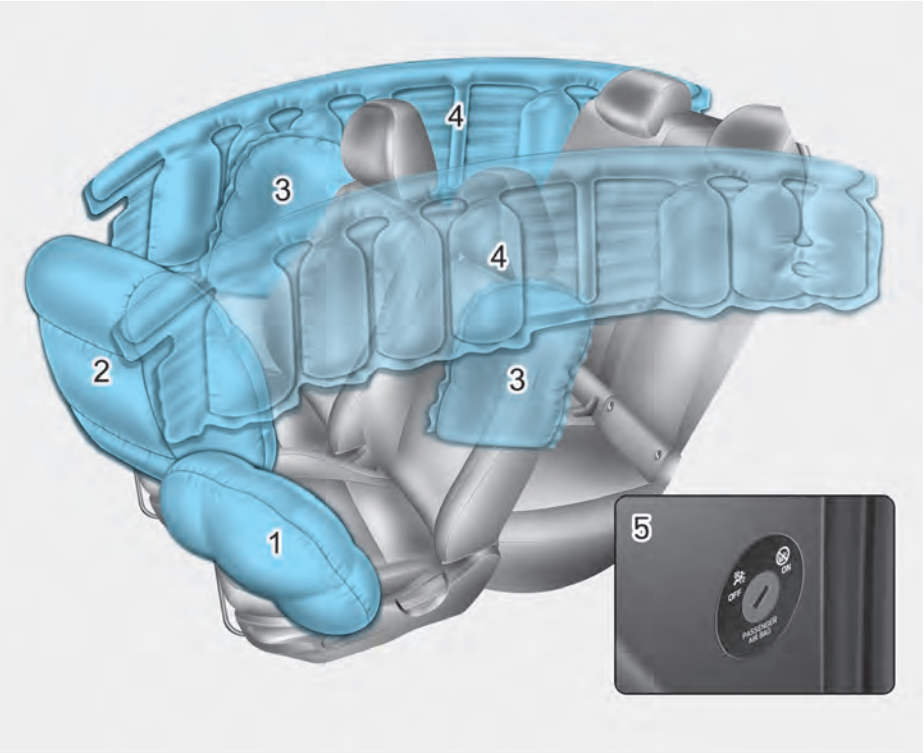


3. Remove as much slack from the belt as possible by pushing down on the Child Restraint System while feeding the shoulder belt back into the retractor.
4. Push and pull on the Child Restraint System to confirm that the seat belt is holding it firmly in place.

If your CRS manufacturer instructs or recommends you use a top-tether anchorage with the lap/shoulder belt, see page 3-36.

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



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

OAC3039013TU

1. Driver's front air bag
2. Passenger's front air bag*
3. Side air bag*
4. Curtain air bag*
5. Front passenger's 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 and Child Restraint Systems - every trip, every time, everyone! Even with air bags, you can be seriously injured or killed in a collision if you are improperly belted or not wearing your seat belt when the air bag inflates.

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

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

All occupants should sit upright with the seatback in an upright position, centered on the seat cushion with their seat belt on, legs comfortably extended and their feet on the floor until the vehicle is parked and 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 air bags (if equipped)

■ Driver's front air bag



■ Passenger's front air bag



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

The SRS consists of air bags which are located in the center of the steering wheel and the passenger's side front panel pad above the glove box. The air bags are labeled with the letters "AIR BAG" embossed on the pad covers.

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 an inflating front air bags, take the following precautions:

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



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.

■ Type A



■ Type B



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.

■ Type A



■ Type B



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.

WARNING

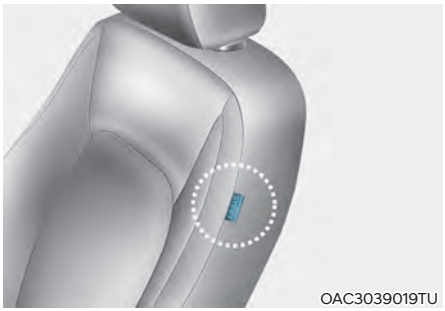
Never allow an adult passenger to ride in the front passenger seat when the passenger air bag OFF indicator is illuminated. During a collision, the air bag will not inflate if the indicator is illuminated. Turn on the passenger's front air bag or have your passenger move to the rear seat.

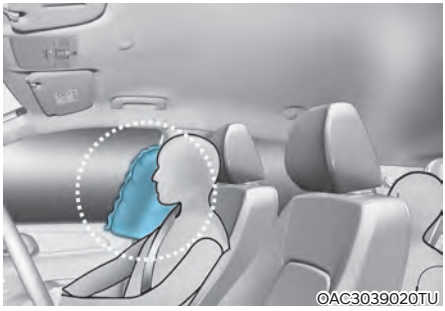
WARNING

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)


OAC3039019TU


OAC3039020TU

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 only during certain side impact collisions, depending on the crash severity.

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

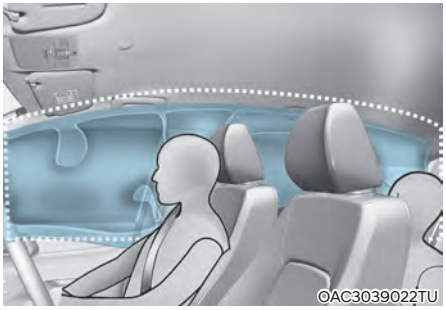
WARNING

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.**
- **Do not use any accessory seat covers. This could reduce or prevent the effectiveness of the system.**
- **Do not place any objects over the air bag or between the air bag and yourself. Also, do not attach any objects around the area the air bag inflates such as the door, side door glass, front and rear pillar.**
- **Do not place any objects between the door and the seat. They may become dangerous projectiles if the side air bag inflates.**
- **Do not install any accessories on the side or near the side air bags.**
- **Do not put any objects between the side air bag label and seat cushion. It could cause harm if the vehicle is in a crash severe enough to cause the air bags to deploy.**
- **Do not cause impact to the doors when the ignition switch is in the ON position or this may cause the side air bags to inflate.**
- **If the seat or seat cover is damaged, we recommend that the system be serviced by an authorized HYUNDAI dealer.**

Curtain air bags (if equipped)


OAC3039021TU


OAC3039022TU

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 only during certain side impact collisions, depending on the crash severity.

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

Do not hang heavy items on the coat hooks for safety reasons.

WARNING

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

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



OBC3030023

The SRS consists of the following components:

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

*: if equipped

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

SRS warning light

The SRS (Supplement Restraint System) air bag warning light on the instrument panel displays the air bag symbol depicted in the illustration. The system checks the air bag electrical system for malfunctions. The light indicates that there is a potential problem with your air bag system.

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

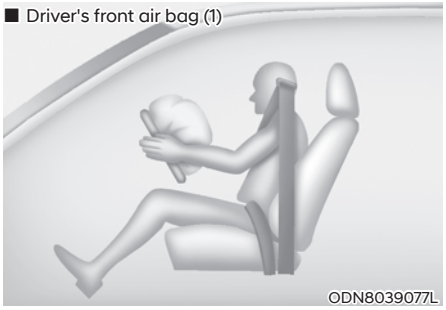
- Air bags are activated (able to inflate if necessary) only when the ignition switch is in the ON position.
- Air bags inflate in the event of certain frontal or side collisions to help protect the occupants from serious physical injury.
- Generally, air bags are designed to inflate based upon the severity of a collision and it's direction etc. These two factors determine whether the sensors produce an electronic deployment/ inflation signal.
- The front air bags will completely inflate and deflate in an instant. It is virtually impossible for you to see the air bags inflate during an accident. It is much more likely that you will simply see the deflated air bags hanging out of their storage compartments after the collision.
- In addition to inflating in 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.

■ Driver's front air bag (1)



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

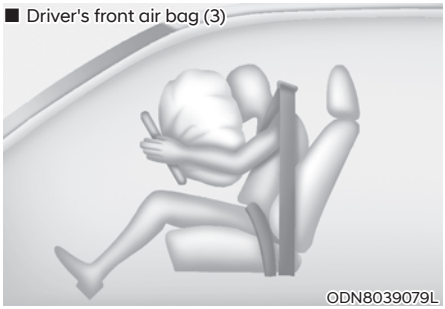
■ Driver's front air bag (2)



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

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

■ Driver's front air bag (3)



■ Passenger's front air bag



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

WARNING

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

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

What to expect after an air bag inflates

After a frontal or side air bag inflates, it will deflate very quickly. Air bag inflation will not prevent the driver from seeing out of the 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



OHI038169L

Never install a Child Restraint System in the front passenger's seat. An inflating air bag can forcefully strike a child or restraint resulting in serious or fatal injury.

WARNING

- **Extreme hazard! Do not use a rearward facing Child Restraint System on a seat protected by an air bag in front of it!**
- **NEVER use a rearward facing Child Restraint System on a seat protected by an ACTIVE AIRBAG in front of it, DEATH or SERIOUS INJURY to the CHILD can occur.**
- **Never put a Child Restraint System in the front passenger's seat. If the front passenger air bag inflates, it would cause serious or fatal injuries.**

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 airbag 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.**



OBC3030024/OAI3039024L/OBC3030025/OBC3030037TU/OBI3030014L

1. SRS control module*
2. Front impact sensor
3. Side pressure sensor*
4. Side impact sensor*

*: if equipped

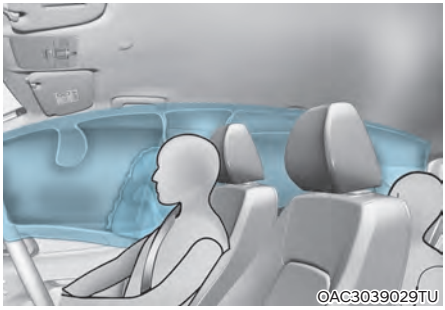
Air bag inflation conditions



Front air bags

Front air bags are designed to inflate in a frontal collision depending on the severity 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 of impact resulting from a side impact collision. Although the driver's and front passenger's air bags are designed to inflate only in frontal collisions, they also may inflate in other types of collisions if the front impact sensors detect a sufficient impact. Side and curtain air bags are designed to inflate only in side impact collisions, but they may inflate in other collisions if the side impact sensors detect a sufficient impact. If the vehicle chassis is impacted by bumps or objects on unimproved roads, the air bags may deploy. Drive carefully on unimproved roads or on surfaces not designed for vehicle traffic to prevent unintended air bag deployment.

Air bag non-inflation conditions



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.

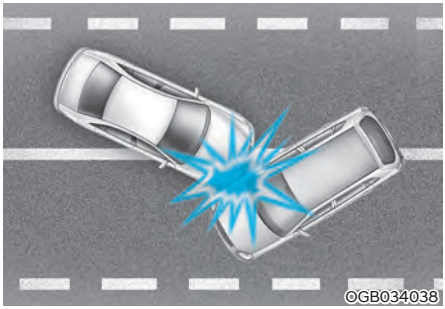


Front air bags are not designed to inflate in rear collisions, because occupants are moved backward by the force of the impact. In this case, inflated air bags would not provide any additional benefit.



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.

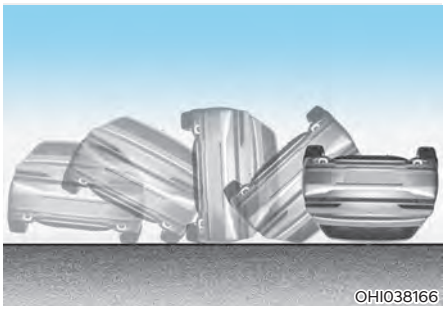
However, side and curtain air bags may inflate depending on the severity of impact.



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.

Information

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.

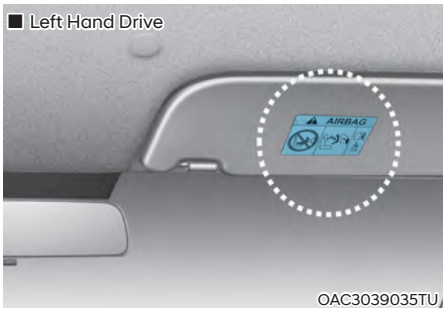
Do not cause impact to the doors. Impact to the doors when the ignition switch is in the ON position may cause the air bags to inflate.

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.

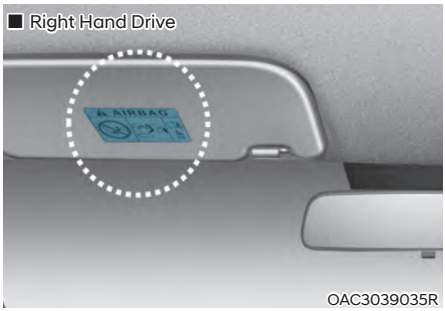
Air bag warning labels (if equipped)

■ Left Hand Drive



OAC3039035TU

■ Right Hand Drive



OAC3039035R

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 4-4
- Gauges and meters 4-5
- Transmission shift indicator 4-9
- Warning and indicator lights 4-10
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- User settings mode 4-30
- Trip computer 4-36

LCD display (Type B) 4-40
- LCD display control 4-40
- View modes 4-41
- Vehicle settings (infotainment system) 4-45

INSTRUMENT CLUSTER

■ Type A

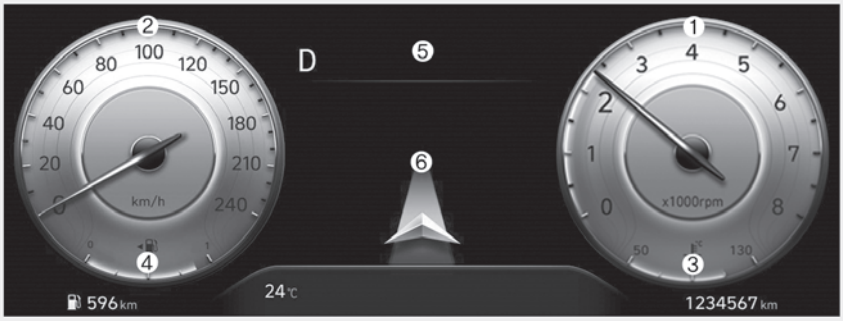


OBC3040001

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

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

■ Type B



OBC3040020

1. Tachometer
2. Speedometer
3. Engine coolant temperature gauge
4. Fuel gauge
5. Warning and indicator lights
6. LCD display

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

Instrument cluster control

Type A



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.

Type B

You can adjust the brightness of the instrument panel illumination from the User Settings Mode on the LCD display when the ignition switch is on ('Lights → Illumination'). When the vehicle's parking lights or headlamps are on, interior switch illumination intensity and mood lamps are also adjusted.

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

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.

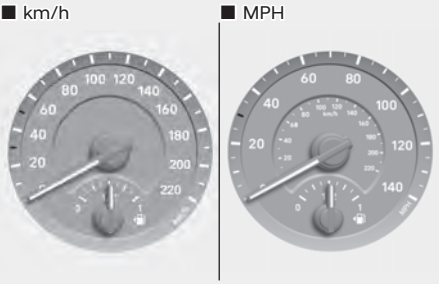
WARNING

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

Gauges and meters

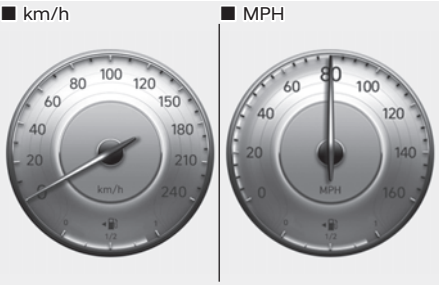
Speedometer

3.5-Inch



OAC3049002TU/OAC3049003TU

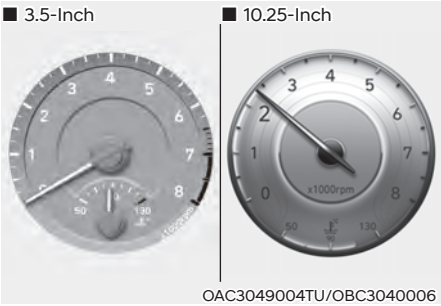
10.25-Inch



OBC3040004/OBC3040005

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

Tachometer



OAC3049004TU/OBC3040006

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

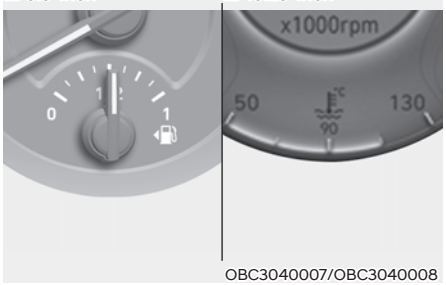
Use the tachometer to select the correct shift points and to prevent lugging and/or over-revving the engine.

NOTICE

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

Engine Coolant Temperature Gauge

■ 3.5-Inch ■ 10.25-Inch



OBC3040007/OBC3040008

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

NOTICE

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

Do not continue driving with an overheated engine. If your vehicle overheats, refer to "If the Engine Overheats" in chapter 8.

WARNING

Never remove the radiator cap or reservoir 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

■ 3.5-Inch ■ 10.25-Inch



OBC3040009/OCN7040011L

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

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

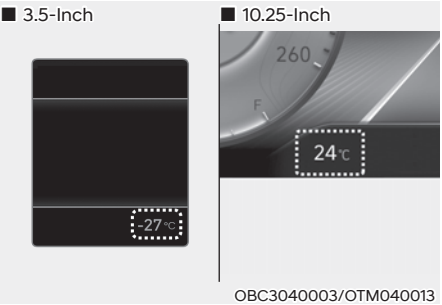
Running out of fuel can expose vehicle occupants to danger.

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" 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)

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

You can change the temperature unit from the Settings menu in the Cluster. Select:

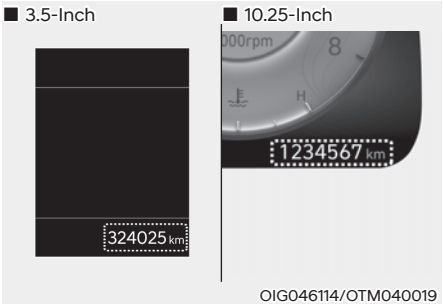
- Setup → Unit → Temperature Unit → °C/°F

For vehicles equipped with Automatic Climate Control, you can also:

- Press the AUTO button while pressing the OFF button on the climate control unit for 3 seconds

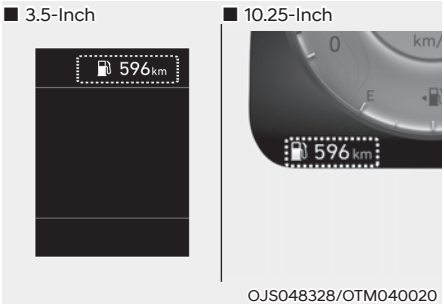
Both the temperature unit on the cluster LCD display and climate control screen will change.

Odometer



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

Distance to empty

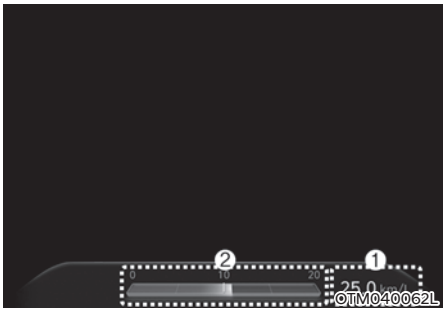


- The distance to empty is the estimated distance the vehicle can be driven with the remaining fuel.
- If the estimated distance is below 1 km (1 mi.), the trip computer will display "---" as distance to empty.

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 (1.5 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.**

Fuel economy (for 10.25 –inch cluster)



The average fuel economy (1) and instant fuel economy (2) is displayed at the bottom of the cluster.

Automatic reset

To automatically reset the average fuel economy, select between "After Ignition" or "After Refueling" from the Settings menu in the infotainment system screen.

Transmission shift indicator

Manual transmission / Intelligent variable transmission shift indicator (if equipped)

■ 3.5-Inch



OPDE046142

■ 10.25-Inch



OCN7040014

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.

Automatic transmission shift indicator (if equipped)

■ 3.5-Inch



OTL045132

■ 10.25-Inch



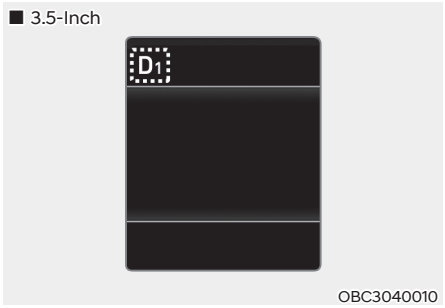
OCN7040013

This indicator displays which automatic transmission 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)

■ 3.5-Inch



■ 10.25-Inch



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

Warning and indicator lights

Information

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

Air bag warning light



This warning light illuminates:

When you set the Engine Start/Stop button to the ON position. The air bag warning light illuminates for about 6 seconds and then turns off when all checks have been performed.

The air bag warning light will remain illuminated if there is a malfunction with the Safety Restraint System (SRS) air bag operation.

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

Seatbelt warning light



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

For more details, refer to the “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.
  - The parking brake & brake fluid warning light illuminates for about 3 seconds and will then turn off once the parking brake is released.
- 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.

If this occurs, 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.
  - The ABS warning light illuminates for about 3 seconds and then goes off.
- Whenever there is a malfunction with the ABS.

  Note that the hydraulic braking system will still be operational even if there is a malfunction with the ABS.

  If this occurs, 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 warning and Parking Brake warning lights are on simultaneously, it may indicate a problem with the Electronic Brake Force Distribution system.

  If this occurs, 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.

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.

If this occurs, we recommend you have the vehicle inspected by an authorized HYUNDAI dealer as soon as possible.

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.
  - The electric powering steering warning light illuminates for about 3 seconds and then goes off.
- Whenever there is a malfunction with the electric power steering.

  If this occurs, 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.
  - The malfunction indicator light illuminates for about 3 seconds and then goes off.
- Whenever there is a malfunction with either the emission control system or the engine or the vehicle powertrain.

  If this occurs, 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.**
- **If the enhanced engine protection system becomes activated due to lack of engine oil, engine power will be limited. If such condition continues repeatedly, the Malfunction Indicator Lamp will illuminate.**

CAUTION

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.

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.

   If this occurs, 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.

Information

When engine oil pressure decreases due to insufficient engine oil, etc., the Engine Oil Pressure warning light will illuminate. In addition, the enhanced engine protection system which limits engine power will be activated. If the engine oil pressure is restored, the Engine Oil Pressure warning light and the enhanced engine protection system will turn off.

NOTICE

- **If the engine is not stopped 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.**

Low Fuel Level Warning Light



This warning light illuminates:

When the fuel tank is nearly empty.Add fuel as soon as possible.

NOTICE

Driving with the Low Fuel Level warning light on or with the fuel level below "0" can cause the engine to misfire and damage the catalytic converter (if equipped).

Master warning light



This indicator light illuminates:

When there is a malfunction in operation in any of the following 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 malfunction (if equipped)
- Smart Cruise Control 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



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)" section 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)" section 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 (Gasoline Engine, if equipped)



This warning light illuminates:

- This warning light illuminates, when accumulated soot reaches a certain amount.
- When this warning light illuminates, it may turn off after driving the vehicle at more than 80 km/h (50 mph) for about 30 minutes (above 3rd gear with 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.

Electronic Stability Control (ESC) indicator light



This indicator light illuminates:

- When you set the ignition switch or the Engine Start/Stop button to the ON position.
  - The Electronic Stability Control indicator light illuminates for about 3 seconds and then goes off.
- Whenever there is a malfunction with ESC system.

  If this occurs, 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)” section in chapter 6.

Electronic Stability Control (ESC) OFF Indicator Light



This indicator light illuminates:

- When you set the ignition switch or the Engine Start/Stop button to the ON position.
- The ESC OFF indicator light 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)” section in chapter 6.

ECS SPORT Indicator Light (if equipped)



This indicator light illuminates:

- When ESC SPORT is activated.

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

AUTO STOP indicator light (if equipped)



This indicator light illuminates:

This indicator light illuminates:

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

This indicator light blinks:

When the engine automatically starts, the AUTO STOP indicator on the cluster will blink for 5 seconds.

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

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.

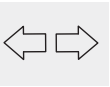
  In this case, we recommend that you have the vehicle inspected by an authorized HYUNDAI dealer.

This indicator light blinks:

- When 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



This indicator light illuminates:

When the headlamps are on.

High beam indicator light



This indicator light illuminates:

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

High Beam Assist indicator light (if equipped)



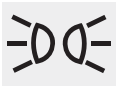
This indicator light illuminates:

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

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

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

Light ON indicator light



This indicator light illuminates:

When the tail lights is on.

Front fog indicator light (if equipped)



This indicator light illuminates:

When the front fog lights are on.

Rear fog indicator light (if equipped)



This indicator light illuminates:

When the rear fog lights are on.

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.
  - The Forward Safety warning light illuminates for approximately 3 seconds and then goes off.
- Whenever there is a malfunction with Forward Collision-Avoidance Assist.

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

For more details, refer to “Forward Collision-Avoidance Assist (FCA)” section 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] Whenever there is a malfunction with Lane Keeping Assist.

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

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

Cruise Indicator Light (if equipped)



This indicator light illuminates:

- When Cruise Control is enabled.

For more details, refer to "Cruise Control (CC)" in chapter 7.

SPORT Mode Indicator Light (if equipped)



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.

SMART Mode Indicator Light (if equipped)



This indicator light illuminates:

- When you select "SMART" mode as drive mode.

For more details, refer to "Drive Mode Integrated Control System" in chapter 5.

ECO Mode Indicator Light (If equipped)



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.

CUSTOM Mode Indicator Light (If equipped)



This indicator light illuminates:

- When you select "CUSTOM" mode as drive mode.

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

LCD display messages

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.

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 brake pedal to start engine (for smart key system and Automatic transmission/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.

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.

Shift to N to start engine (for smart key system and Automatic transmission/Dual clutch transmission)

This warning message is displayed if you try to start the engine with the shift button not in the N (Neutral) position.

Information

You can start the engine with the shift lever in the N (Neutral) position.

Check BRAKE SWITCH fuse (for smart key system and Automatic transmission/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.

Door, Hood, Tailgate open indicator



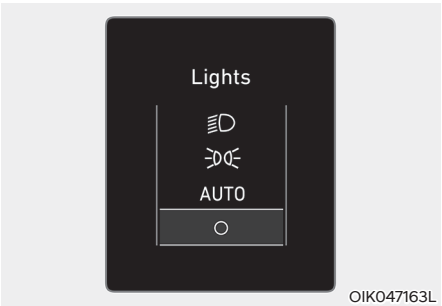
OBC3040012

This warning is displayed if any door or hood or tailgate is left open. The warning will indicate which door is open in the display.

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.

Lights mode



OIK047163L

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

Wiper mode



OCN7040039L

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

Low pressure



ONX4E040019

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)” section in chapter 8.

Heated Steering Wheel turned off (if equipped)

This message illuminates if the heated steering wheel will turn off automatically approximately 30 minutes after the heated steering wheel is turned on.

For more details, refer to “Heated Steering Wheel” in chapter 5.

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.

Low engine oil (if equipped)

This warning message is displayed when the engine oil level should be checked.

If this warning message is displayed, 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.

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

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

NOTICE

If the message is displayed 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.

Engine has overheated (if equipped)

This warning message is displayed when the engine coolant temperature is above 120°C (248°F). This means that the engine is overheated and may be damaged.

If your vehicle is overheated, refer to "Overheating" section in chapter 8.

Check headlight (if equipped)

This warning message is displayed if the headlamps are not operating properly.

In addition, if a specific lamp(turn signal lamp etc.) is not operating properly, the warning message according to a specific lamp (turn signal lamp etc.) is displayed. A corresponding bulb may need to be replaced.

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

Check brake light (if equipped)

This warning message is displayed if the stop lamps are not operating properly. A lamp may need to be replaced.

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

Check Active Air Flap system (if equipped)

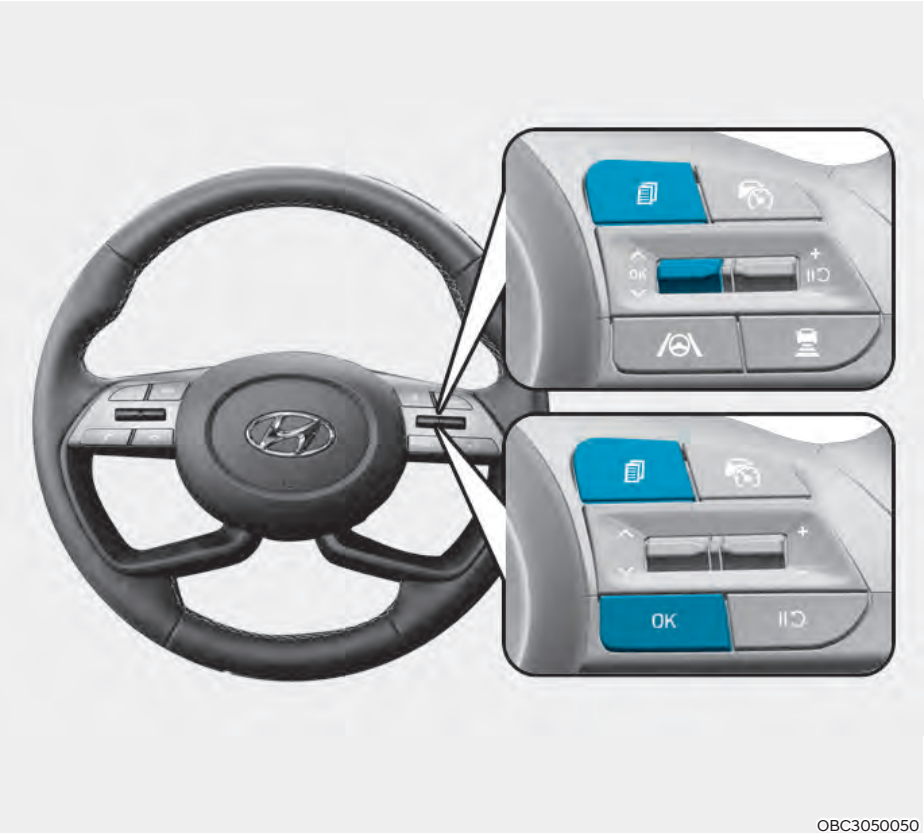
This message is displayed in the following situations:

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

When all of the above conditions are fixed, the warning will disappear.

LCD DISPLAY (TYPE A)

LCD display control



OBC3050050

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

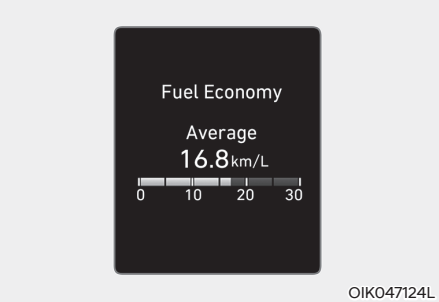
Switch	Function
	MODE button for changing modes
∧, ∨	MOVE switch for changing items
OK	SELECT/RESET button for setting or resetting the selected item

LCD display modes

Modes	Symbol	Explanation
Trip Computer		This mode displays driving information such as the tripmeter, fuel economy, etc. For more details, refer to "Trip Computer" in this chapter.
Turn By Turn (TBT)		This mode displays the state of the navigation.
Driving Assist		- Smart Cruise Control - Drive Attention Warning - Intelligent Speed Limit Warning
User Settings		In this mode, you can change settings of the doors, lamps, etc.
Warning		- This mode displays warning messages related to the lamp malfunction, etc. - Tire pressure information

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

Trip computer mode



OIK047124L

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

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

Turn By Turn (TBT) group



OCN7060149

This group displays the state of the navigation.

Driving Assist mode



OBC3070041

SCC/ISLA

This mode displays the state of Smart Cruise Control, Intelligent Speed Limit Assist.

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



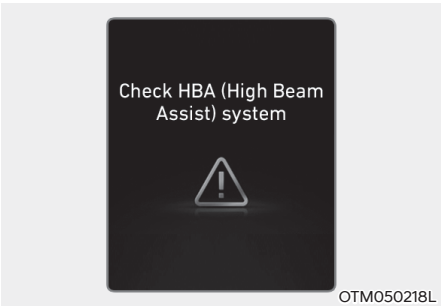
OTM070191L

Driver Attention Warning (if equipped)

This group displays information related to Driver Attention Warning.

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

Master warning



OTM050218L

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)
- Lamp malfunction (if equipped)
- High Beam Assist malfunction (if equipped)
- Smart Cruise Control malfunction (if equipped)
- Tire Pressure Monitoring System 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.



ONX4E040023

Tire Pressure

This mode displays information related to Tire Pressure.

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

User settings mode (if equipped)

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

1. Driver Assistance
2. Cluster
3. Lights
4. Door
5. Convenience
6. Units
7. Language
8. Reset

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

Shift to P to edit settings/Engage parking brake to edit settings

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

- Automatic transmission / Intelligent variable transmission

  For your safety, change the User Settings after parking the vehicle, applying the parking brake and moving the shift level to P(Park).
- Manual transmission

  For your safety, change the User Settings after engaging the parking brake.

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.

1. Driver Assistance

Items	Explanation
Drive convenience	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.**
Speed limit	To adjust the Speed Limit function. • Speed limit tolerance • Speed limit assist • SLW (Speed Limit Warning) • Off **For more details, refer to the “Intelligent Speed Limit Assist (ISLA)” in chapter 7.**
Warning timing	To adjust the warning timing of the driver assistance system. • Normal / Late
Warning volume	To adjust the warning timing of the driver assistance system. • High / Medium / Low / Off
DAW (Drive attention warning)	• Leading vehicle departure alert To activate or deactivate the Leading vehicle departure alert. • Inattentive driving warning To activate or deactivate the Driver Attention Warning. **For more details, refer to the “Driver Attention Warning (DAW)” in chapter 7.**
Forward safety	To adjust Forward Collision-Avoidance Assist function. • Active Assist • Warning Only • Off **For more details, refer to the "Forward Collision-Avoidance Assist (FCA)" in chapter 7.**
Lane safety	To adjust the Lane Keeping Assist function. • Lane Keeping Assist • Lane Departure Warning • Off **For more details, refer to "Lane Keeping Assist (LKA)" in chapter 7.**
Blind-spot safety	To activate or deactivate Blind-Spot View Monitor • Active Assist • Warning Only • Off **For more details, refer to the "Blind-Spot View Moniter (BVM)" in chapter 7.**

Items	Explanation
Parking safety	• Parking distance warning auto ON **For more details, refer to “Forward/Reverse Parking Distance Warning (PDW)” in chapter 7.** • Rear cross-traffic safety To Activate or deactivate the Rear Cross-Traffic Collision- Avoidance Assist function. **For more details, refer to “Rear Cross-Traffic Collision- Avoidance Assist (RCCA)” in chapter 7.**

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

2. Cluster

Items	Explanation
Fuel economy	• After vehicle re-start • After refueling • Average Fuel Economy **For more details, refer to "Trip Computer" in this chapter**
Fuel economy auto reset	• Off • At driving • At refueling **For more details, refer to "Trip Computer" in this chapter**
Wiper/Lights display	To activate or deactivate the Wiper/ Light mode.When activated, the LCD display shows the selected Wiper/Light mode whenever you changed the mode.
Traffic signs	To set the traffic signs displayed.
Icy road warning	To activate or deactivate the icy road warning.
Welcome sound	To activate or deactivate the welcome sound.
Theme selection	You can select the theme of the cluster. • Type B Cluster: Link to Drive Mode / Theme A / Theme B / Theme C / Theme D

3. Lights

Items	Explanation
Illumination	To adjust the illumination level. • Level 1~20
One touch turn indicator	• 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.**
Ambient light brightness	• Off • Level 1/2/3/4
HBA (High Beam Assist)	To activate or deactivate High Beam Assist. For more details, refer to "High Beam Assist (HBA)" in chapter 5.

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

4. 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.

5. 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	• On door unlock: The outside rearview mirrors are unfolded automatically when the doors are unlocked. • On driver approach: The outside rearview mirrors are unfolded automatically when the vehicle is approached with the smart key. **For more details, refer to "Welcome System" in chapter 5.**
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.
Advanced anti-theft	To activate or deactivate the Advanced Anti-Theft function.
Vehicle auto-shut Off	To activate or deactivate the Vehicle Auto-Shut Off function.
Service interval	• Service interval To activate or deactivate the service interval function. • Adjust interval If the service interval menu is activated, you may adjust the time and distance. • Reset To reset the service interval.

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

Information

To use the service interval menu, we recommend you consult an authorized HYUNDAI dealer.

If the service interval is activated and the time and distance is adjusted, messages are displayed in the following situations each time the vehicle is turned on.

- **Service in: Displayed to inform the driver the remaining mileage and days to service.**
- **Service required: Displayed when the mileage and days to service has been reached or passed.**

Information

If any of the following conditions occur, the mileage and number of days to service may be incorrect.

- The battery cable is disconnected.

- The battery is discharged.

6. 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)

7. Language (if equipped)

Items	Explanation
Language	Choose the language.

8. Reset

Items	Explanation
Reset	You can reset the menus in the User Settings Mode. All menus in the User Settings Mode are reset to factory settings, except language and service interval

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

Trip computer

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

Information

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

Trip modes

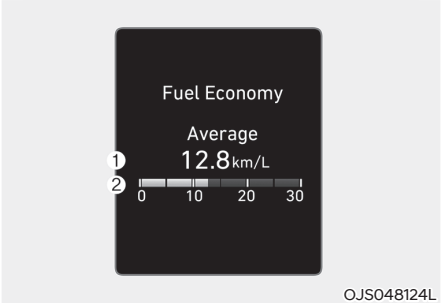
- **Fuel Economy**
  - Average Fuel Economy
  - Instant Fuel Economy
- ↕
- **Accumulated Info**
  - Tripmeter
  - Average Fuel Economy
  - Elapsed Time
- ↕
- **Drive Info**
  - Tripmeter
  - Average Fuel Economy
  - Elapsed Time
- ↕
- Auto Stop (if equipped)
- ↕
- Digital Speedometer



OBC3050050

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

Fuel economy



OJS048124L

Average Fuel Economy (1)

- The average fuel economy is calculated by the total driving distance and fuel consumption since the last average fuel economy reset.
- The average fuel economy can be reset both manually and automatically.

Manual reset

To clear the average fuel economy manually, press the [OK] button on the steering wheel for more than 1 second when the average fuel economy is displayed.

Automatic reset

To automatically reset the average fuel economy after refueling, select the "Fuel Econ. Reset" mode in the User Settings menu on the LCD display.

- After ignition: the average fuel economy will reset automatically whenever it has passed 4 hours after turning OFF the engine.
- After refueling: the average fuel economy will reset automatically when driving speed exceeds 1 km/h, after adding 6 liters (1.6 gallons) of fuel or more.

Information

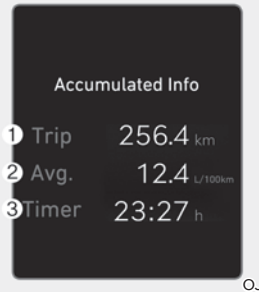
The average fuel economy may be inaccurate, when the vehicle drives shorter than 300 meters (0.19 miles) after turning ON the Engine Start/ Stop button.

Instant Fuel Economy (2)

- This mode displays the instant fuel economy during the last few seconds when the vehicle speed is more than 10 km/h (6.2 mph).

Accumulated Info display

■ Type A



OJX1049012L

■ Type B



OJX1049067L

This display shows the accumulated trip distance (1), the average fuel economy (2), and the total driving time (3).

The information is accumulated starting from the last reset.

To manually reset the information, press and hold the OK button when viewing the accumulated driving info. The trip distance, the average fuel economy, and total driving time will reset simultaneously.

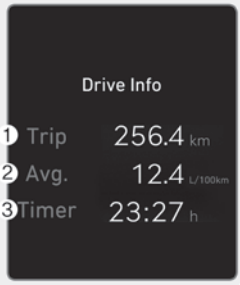
The accumulated driving information will continue to be counted while the engine is still running (for example, when the vehicle is in traffic or stopped at a stop light).

Information

The vehicle must be driven for a minimum of 300 meters (0.19 miles) since the last ignition key cycle will be recalculated.

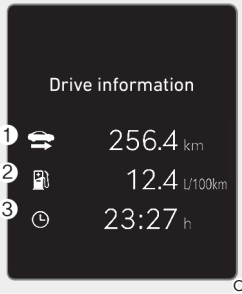
Drive Info display

■ Type A



OJX1049011L

■ Type B



OJX1049065L

This display shows the accumulated trip distance (1), the average fuel economy (2), and the total driving time (3).

The information is combined for each ignition cycle. However, when the engine has been OFF for 4 hours or longer the Drive Info screen will reset.

To manually reset the information, press and hold the OK button when viewing the Drive Info. The trip distance, the average fuel economy, and total driving time will reset simultaneously.

The driving information will continue to be counted while the engine is still running (for example, when the vehicle is in traffic or stopped at a stop light.)

Information

The vehicle must be driven for a minimum of 300 meters (0.19 miles) since the last ignition key cycle will be recalculated.

Digital speedometer



OJX1049018

This message shows the speed of the vehicle (km/h, MPH).



OJX1069044

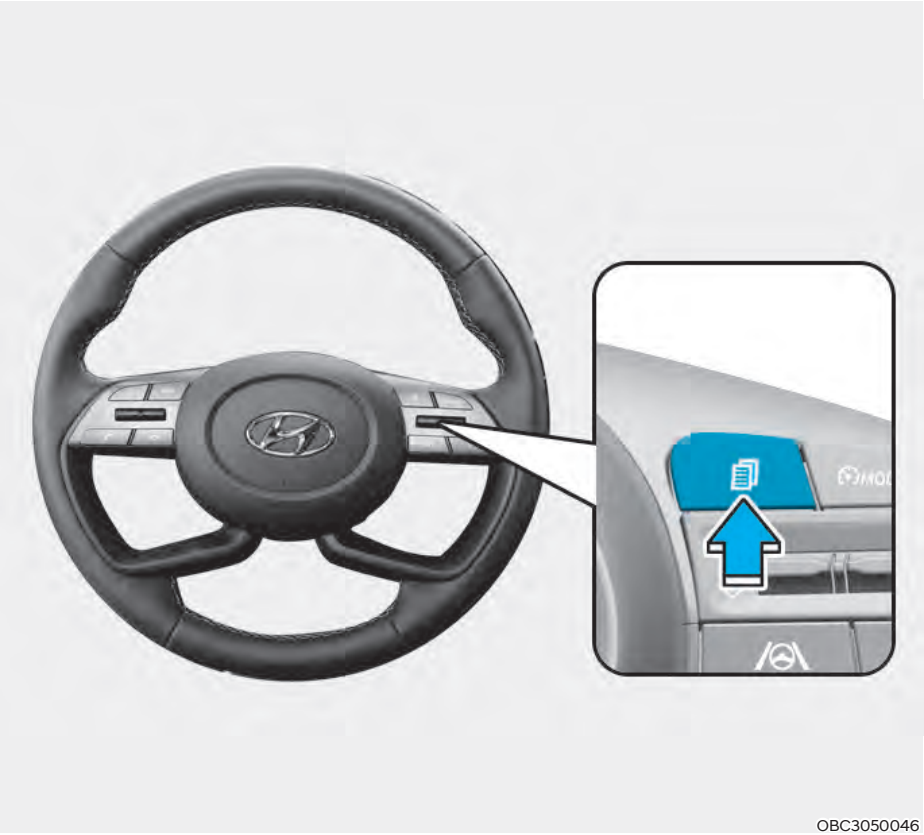
Auto stop (if equipped)

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.

LCD DISPLAY (TYPE B)

LCD display control



OBC3050046

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

Switch	Operation	Function
	Press	MODE button for changing View modes
∧, ∨	Press	UP, DOWN switch for changing items in Utility view and Option menu
OK	Press	SELECT/RESET switch for entering Option menu
	Press and hold	SELECT/RESET switch for retrieving assist information or resetting the selected item

View modes

View modes	Function
Utility	Utility view displays driving information such as the trip distance, fuel economy and etc.
Driving Assist	Driving Assist view displays the status of the vehicle's Driving Assistance systems.
Turn by Turn	Turn By Turn view displays the state of the navigation.

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

Utility view

In the Utility view, using the ^, v (UP, DOWN) switch, you may change through items in the following order.



OCN7040045L

Fuel economy

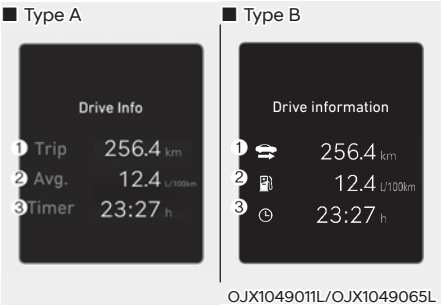
Average fuel economy (1) and instant fuel economy (2) are displayed.

- Manual reset

  To clear the average fuel economy manually, press the OK switch on the steering wheel for more than 1 second when the Average Fuel Economy is displayed.
- Automatic reset

  To automatically reset the average fuel economy, select between 'After Ignition' or 'After Refueling' from the Settings menu in the infotainment system.

  - After Ignition: when the engine has been OFF for 4 hours or longer the average fuel economy will reset automatically.
  - After Refueling: the average fuel economy will reset automatically after adding 6 liters (1.6 gallons) of fuel or more and after driving speed exceeds 1 km/h (1 mph).



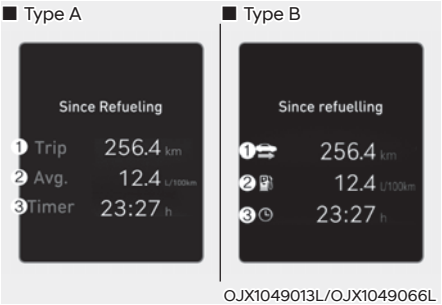
OJX1049011L/OJX1049065L

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 4 hours 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.

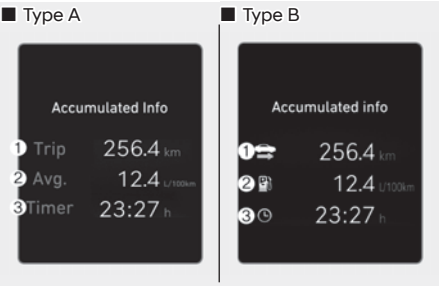


OJX1049013L/OJX1049066L

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.



OJX1049012L/OJX1049067L

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.



OTM040045

Digital speedometer

Digital speedometer display shows the speed of the vehicle.



OTM070191L

Attention level (if equipped)

The driver's attention level is shown based on the driver's driving pattern.

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



OJX1069044

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.



OJX1079237L

Speed limit warning (if equipped)

The driver can monitor the information provided from Intelligent Speed Limit Assist.

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

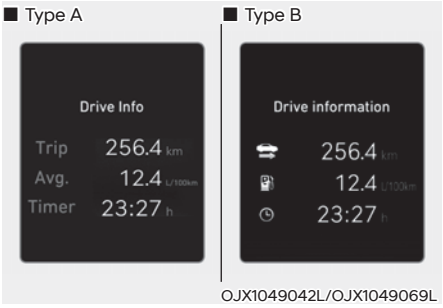


OTMH040007

Engine temperature

Engine coolant temperature gauge display shows the temperature of the engine coolant when the engine is running.

Additional information display



OJX1049042L/OJX1049069L

Drive info / Drive information

Drive information is displayed for 4 seconds after the engine is turned off.



OBC3040015

Driving assist information

The current operation conditions of Manual Speed Limit Assist, Cruise Control, Smart Cruise Control, Lane Following Assist, etc. is displayed.

Driving Assist view



OBC3070041

The status of Manual Speed Limit Assist, Cruise Control, Smart Cruise Control, Lane Following Assist, etc. is displayed when Driving Assist view is selected.

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

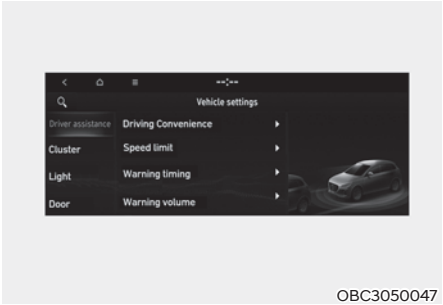
Turn By Turn (TBT) view



OJX1049064L

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

Vehicle settings (infotainment system)



OBC3050047

Vehicle Settings in the infotainment system provides user options for a variety of settings including door lock/unlock features, convenience features, driver assistance settings, etc.

Vehicle Settings menu

1. Driver Assistance
2. Speed limit
3. Cluster
4. Lights
5. Door
6. Convenience
7. Default

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

WARNING

Do not operate the Vehicle Settings while driving. This may cause distraction resulting in an accident.

Setting your vehicle



1. Press the SETUP button on the head unit of the infotainment system.



2. Select ‘Vehicle’ and change the setting of the features.



Detailed information is described in a separate supplied manual.

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ACCESSING YOUR VEHICLE

Remote key (if equipped)



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

(1) Door Lock

(2) Door Unlock

(3) Tailgate Unlock

Locking

To lock:

1. Close all doors, engine 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 once. Also, the outside rearview mirror will fold, if the User Settings mode on the LCD display. For more details, refer to “LCD Display” in chapter 4.
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 User Settings mode on the LCD display. For more details, refer to “LCD Display” in chapter 4.

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. Once the tailgate is opened and then closed, the tailgate will lock automatically.

Information

- **If the tailgate is unlocked, it will lock automatically.**
- **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 6.

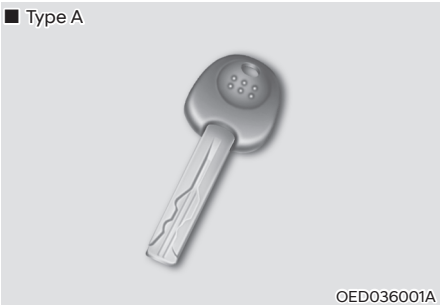
NOTICE

To prevent damaging the remote key:

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

Mechanical key

■ Type A



OED036001A

■ Type B



OTLE045002

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

Type B

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 occurs:

- 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.

When 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 especially important 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 pants or jacket pocket and always try to maintain an adequate distance between the two devices.

Information

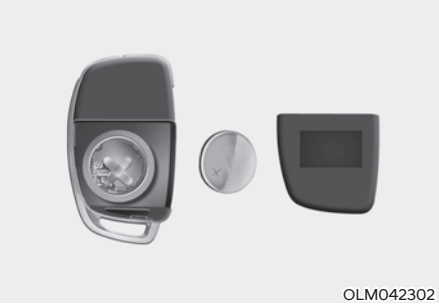
Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. If the keyless entry system is inoperative due to changes or modifications not expressly approved by the party responsible for compliance, it will not be covered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

NOTICE

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

Battery replacement

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



OLM042302

Battery Type: CR2032

To replace the battery:

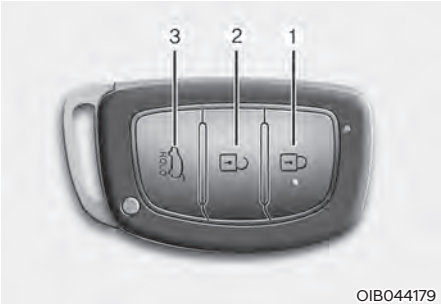
1. Insert a slim tool into the slot and gently pry open the cover.
2. Remove the old battery and insert the new battery. Make sure the battery position is correct.
3. Reinstall the rear cover of the remote key.

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.

Information

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

Smart key (if equipped)



OIB044179

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

(1) Door Lock

(2) Door Unlock

(3) Tailgate Unlock

Locking



To lock:

1. Close all doors, engine hood and tailgate.
2. Carry the smart key.
3. Either press the door handle button or press the Door Lock button on the smart key.
4. The hazard warning lights will blink. Also, the outside rearview mirror will fold, if 'Convenience → Welcome mirror → On door unlock' is selected from the User Settings mode on the LCD display. For more details, refer to "LCD Display" in chapter 4.
5. Make sure the doors are locked by pulling the door outside handle.

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 occurs:

- 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 on the smart key.
3. The doors will unlock. The hazard warning lights will blink two times. Also, the outside rearview mirror will unfold, if 'Convenience → Welcome mirror → On door unlock' is selected from the User Settings mode on the LCD display. For more details, refer to "LCD Display" in chapter 4.

Information

- **The door handle button will only operate when the smart key is within 1 m (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 any of the doors is opened.**

Tailgate unlocking

To unlock:

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

Once the tailgate is opened and then closed, the tailgate will lock automatically.

Information

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 6.

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, excluding the car from the warranty.**
- **Avoid dropping or throwing the smart key.**
- **Protect the smart key from extreme temperatures.**

NOTICE

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

Mechanical key

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



Press and hold the release button (1) and 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 an authorized HYUNDAI dealer or tow the vehicle, if necessary.

Smart key precautions

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

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

When the smart key does not work correctly, open and close the door with the mechanical key. If you have a problem with the smart key, 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 especially important 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 pants or jacket pocket and always try to maintain an adequate distance between the two devices.

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.

Battery replacement



OLF044008

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

Battery Type: CR2032

To replace the battery:

1. Pry open the rear cover of the smart key.
2. Remove the old battery and insert the new battery. Make sure the battery position is correct.
3. Reinstall the rear cover of the smart key.

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

Information



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

Immobilizer system

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

When the 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

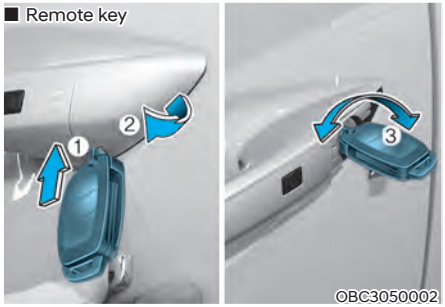
The transponder in your key is an important part of the immobilizer system. It is designed to give years of trouble-free service, however you should avoid exposure to moisture, static electricity and rough handling. Immobilizer system malfunction could occur.

DOOR LOCKS

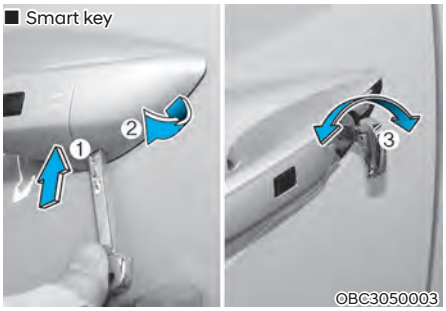
Operating door locks from outside the vehicle

Mechanical key

■ Remote key



■ Smart key



1. Press the lever located under the cover with a mechanical key. (1)
2. While pushing the lever so that the mechanical key does not fall out of the cover hole, slowly push it upward of the vehicle and remove the cover. (2)
3. After removing the cover, only driver's door can be locked or unlocked by using the mechanical key.
4. Turn the key toward the front of the vehicle to unlock and toward the rear of the vehicle to lock. (3)

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

Information

- **Be careful when locking the door by mechanical key operation, only the driver's door can be locked/unlocked.**
- **When all doors are locked with the mechanical key, lock all doors by using the central door lock switch inside the vehicle. Open the door using the driver's inner door handle, and then close the door and lock the driver's door with mechanical key operation.**
- **Refer to Chapter 5 "Operating door locks from inside the vehicle" to lock from inside the vehicle.**

Information

- **When removing the cover, be careful not to lose cover and leave any scratches.**
- **When the key cover freezes and does not open, lightly tap or indirectly warm (hand temperature, etc.) it.**
- **Do not apply excessive force to the door and door handle. It may be damaged.**

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.

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.**

Smart key





(1) Door Lock
(2) Door Unlock
(3) Tailgate Unlock

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.

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 handle



- Front doors

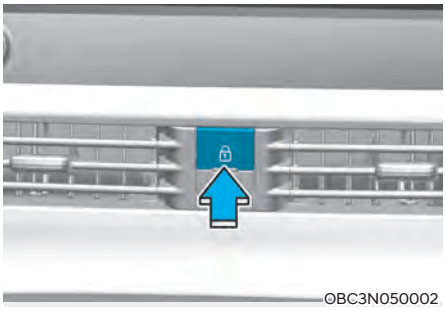
  If the inner door handle is pulled (1) when the door is locked, the door will unlock and open.

- Rear doors

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

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

With the central door lock/unlock switch



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

Information

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

WARNING

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

WARNING

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

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

WARNING

Always secure your vehicle

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

To secure your vehicle, while depressing the brake, move the shift lever to the N (Neutral) position (for Automatic transmission/Dual clutch transmission) or the first gear or R (Reverse, for Manual transmission), 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

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.

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.

Automatic door lock and unlock features

Impact sensing door unlock system (if equipped)

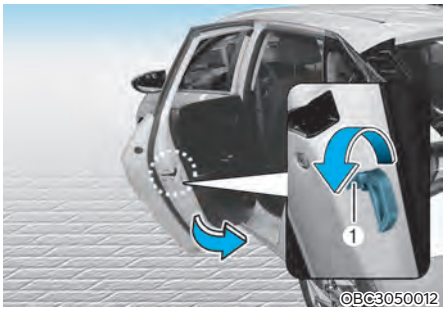
All doors will be automatically unlocked when an impact causes the air bags to deploy.

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 chapter 4. If your vehicle is equipped with additional navigation, please refer to the infotainment system manual separately supplied.**

Child-protector rear door locks



The child safety lock is provided to help prevent children seated in the rear from accidentally opening the rear doors.

The rear door safety locks should be used whenever children are in the vehicle.

The child safety lock is located on the edge of each rear door. When the child safety lock is in the lock position, the rear door will not open if the inner door handle is pulled.

To lock the child safety lock, insert a key (or screwdriver) (1) into the hole and turn it to the lock position.

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

WARNING

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

How to lock the door in case of emergency



In case of an emergency (battery discharge, etc.), you can manually lock the door using the emergency key.

1. Open the door
2. Insert the emergency key into the emergency lock located at the back of the door and turn the key in the horizontal direction
3. Close the door

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.



OCN7050135L

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 locks 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:

- One of the doors 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.

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.**

WARNING

Be sure to receive the services related to the burglar alarm system by an authorized HYUNDAI dealer only. Arbitrary modification or alteration of the burglar alarm system may result in a malfunction. A failure caused by arbitrary alteration or modification is not covered by the warranty.



OJC040170

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 on the instrument cluster. The steering wheel may become difficult to control or operate. Take your vehicle to an authorized HYUNDAI dealer and have the system checked as soon as possible.

Information

The following symptoms may occur during normal vehicle operation:

- **After placing the ignition switch in the ON position, the steering effort may be high immediately that happens as the system performs the EPS system diagnostics. When the diagnostics is completed, the steering wheel will return to its normal condition.**
- **When the battery voltage is low, you might have to put more steering effort. However, it is a temporary condition so that it will return to normal condition after charging the battery.**
- **A click noise may be heard from the EPS relay after the 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 / Telescope steering (if equipped)

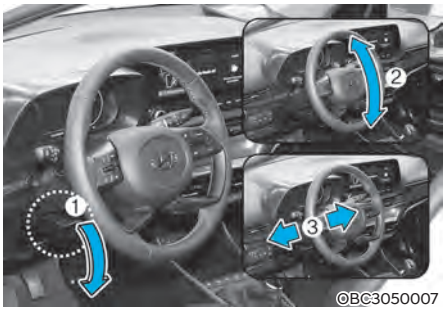
WARNING

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.



To change the steering wheel angle and height:

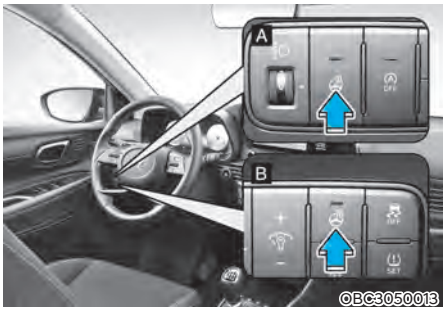
1. Pull down the lock-release lever (1).
2. Adjust the steering wheel to the desired angle (2) and height (3, if equipped). Move the steering wheel, so it points toward your chest, not toward your face. Make sure you can see the instrument panel warning lights and gauges.
3. Pull up the lock-release lever to lock the steering wheel in place.

Push the steering wheel both up and down to be certain it is locked in position.

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.

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 (see illustration). The horn will operate only when this area is pressed.

NOTICE

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

MIRRORS

Inside rearview mirror

Before you start driving, adjust the rearview mirror to 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.

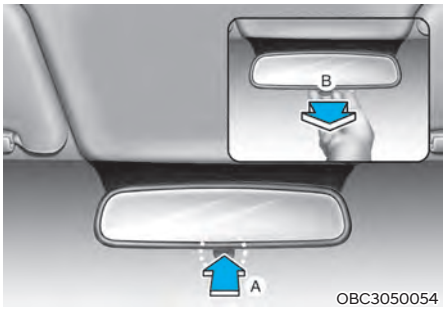
WARNING

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)



[A]: Day, [B]: 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 headlights 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)



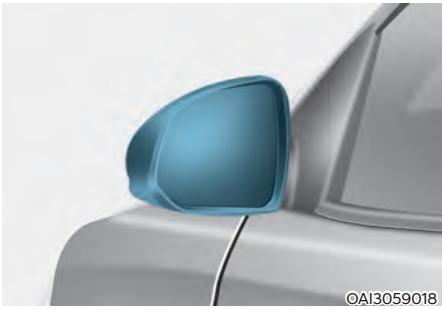
OBC3050014

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 (1) 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 button 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.

Outside rearview mirrors



Be sure to adjust mirror angles before driving.

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

The mirror heads can be folded to prevent damage during an automatic car wash or when passing through a narrow street.

When the vehicle speed is over 15 km/h, the outside rearview mirror will not fold.

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.**

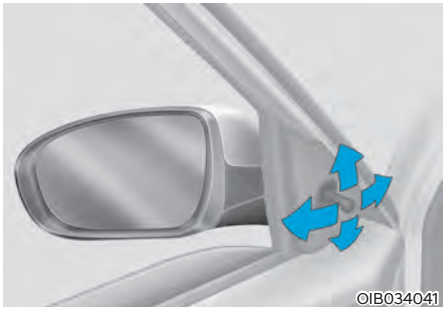
WARNING

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 mirror



Manual type (if equipped)

To adjust an outside mirror, move the control lever.



Electric type (if equipped)

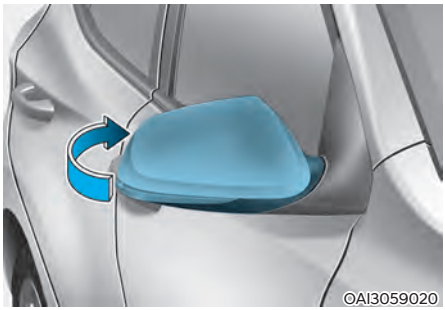
Move the lever (1) to the L (Left) or R (Right) to select the rearview mirror you would like to adjust.

Use the mirror adjustment control to position the selected mirror up, down, left or right.

NOTICE

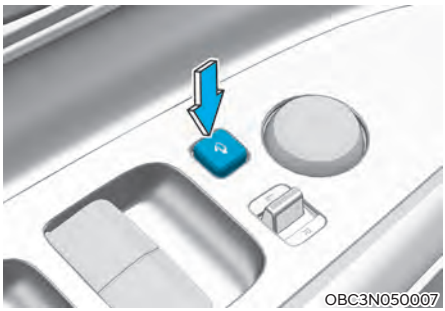
- **The mirrors stop moving when they reach the maximum adjusting angles, but the motor continues to operate while the switch is pressed. Do not press the switch longer than necessary, the motor may be damaged.**
- **Do not attempt to adjust the outside rearview mirror by hand or the motor may be damaged.**

Folding the outside rearview mirror



Manual type (if equipped)

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



Electric type (if equipped)

The outside rearview mirror can be folded or unfolded by pressing the switch. When vehicle speed is over 15 km/h, the outside rearview mirror will not fold even though the switch is pressed.

However, the outside rearview mirror will unfold when the switch is pressed.

- If 'Convenience → Welcome mirror → On door unlock' is selected in the User Settings mode on the LCD display, the outside mirror will fold or unfold automatically as follows:
  - The mirror will fold or unfold when the door is locked or unlocked by the smart key.
  - The mirror will fold or unfold when the door is locked or unlocked by the button on the outside door handle.
- If 'Convenience → Welcome mirror → On door unlock' and 'Convenience → Welcome mirror → On driver approach' is selected in the User Settings mode.

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

NOTICE

The electric type outside rearview mirror operates even though the ignition switch is in the OFF position.

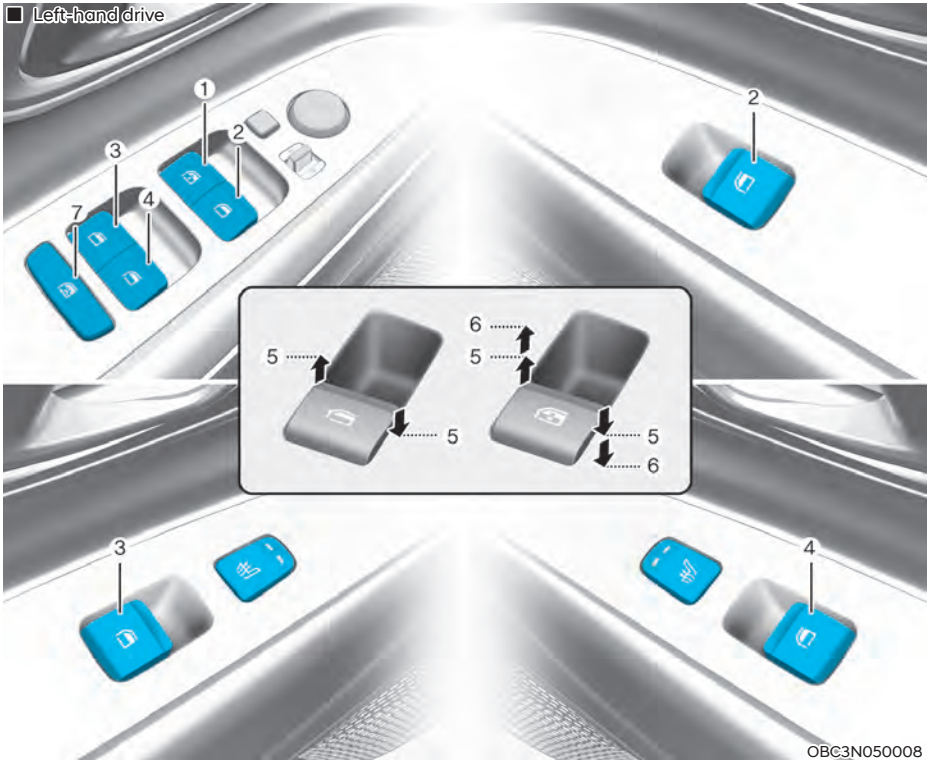
However, to prevent unnecessary battery discharge, do not adjust the mirrors longer than necessary while the engine is not running.

NOTICE

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

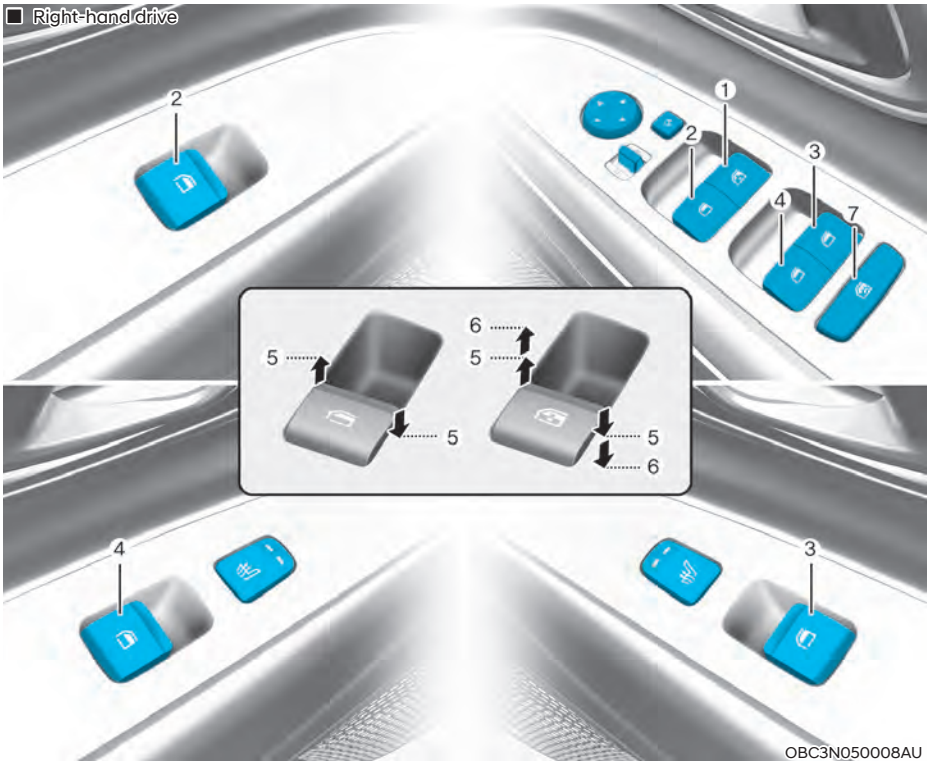
WINDOWS

Power windows (if equipped)



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

*: if equipped



(1) Driver's door power window switch*
(2) Front passenger's door power window switch*
(3) Rear door power window switch (Right)*
(4) Rear door power window switch (Left)*
(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 3 minutes 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 3 minutes period.

WARNING

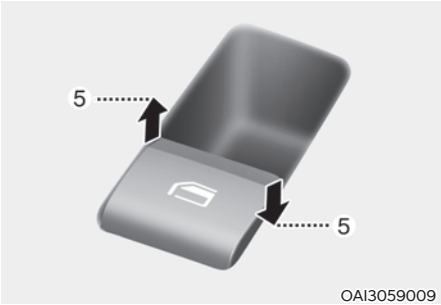
To avoid serious injury or death, do not extend your head, arms or body outside the windows while driving.

Information

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

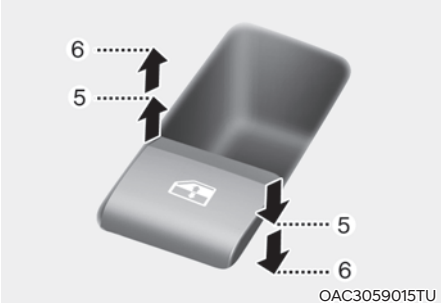
  If you experience the noise with the sunroof open, slightly close the sunroof.

Window opening and closing



To open or close a window, press down or pull up the front portion of the corresponding switch to the first detent position (5).

Auto up/down Window (if equipped) (Driver's window)



Pressing the power window switch momentarily to the second detent position (6) completely lowers the driver's window even when the switch is released. To stop the window at the desired position while the window is in operation, pull up and release the switch to the opposite direction of the window movement.

To reset the power windows

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

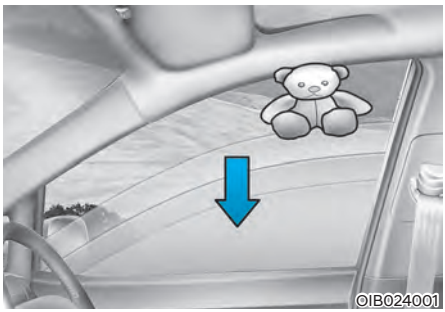
1. Place the ignition switch to the ON position.
2. Close the window and continue pulling up on the power window switch for at least one second.

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.

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 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.


OBC3050020

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

The sunroof can be operated for approximately 3 minutes after the Engine Start/Stop button is in the ACC or OFF position. However, if the front door is open, the sunroof cannot be operated even within the 3 minutes period.

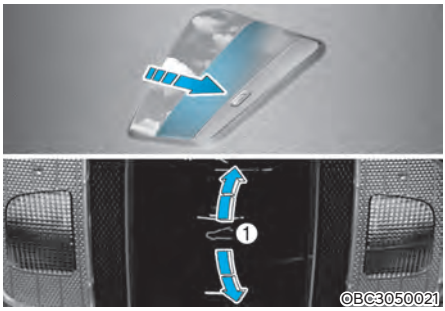
WARNING

- **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 damage.**

NOTICE

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

Sunshade



OBC3050021

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

Open or close the sunshade by hand.

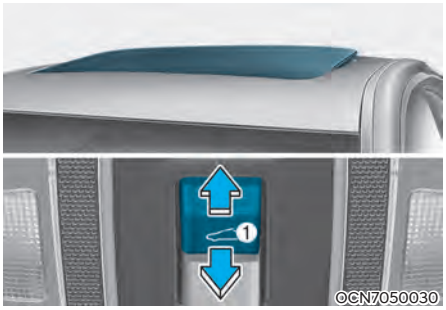
Information

The sunshade will open automatically when the sunroof glass moves, 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



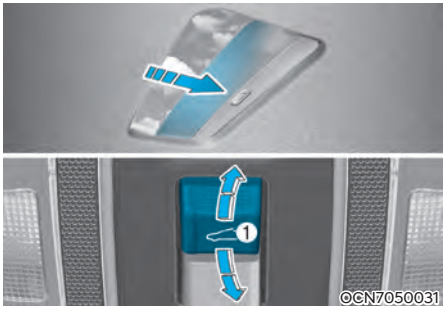
- Push the sunroof switch upward, the sunroof glass will tilt open.
- Push the sunroof switch forward, the sunroof glass will automatically close.

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

Information

The sunroof glass cannot slide open and tilt open at the same time. You cannot tilt open while the sunroof glass is slide open, and you cannot slide 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



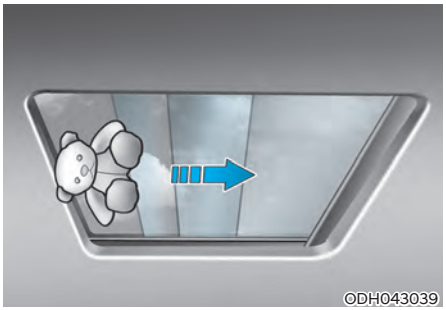
- Push the sunroof switch rearward, the sunshade and sunroof glass will slide open.
- Push the sunroof switch forward, only the sunroof glass will close.
- Push the sunroof switch forward or rearward to the first detent position, the sunroof glass will operate manually.
- Push the sunroof switch forward or rearward to the second detent position, the sunroof glass will operate automatically (auto slide feature).

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

Information

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

Automatic reversal



If the sunroof 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, or the sunroof is closed manually.

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. Within 3 seconds, 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.

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



OBC3040014

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

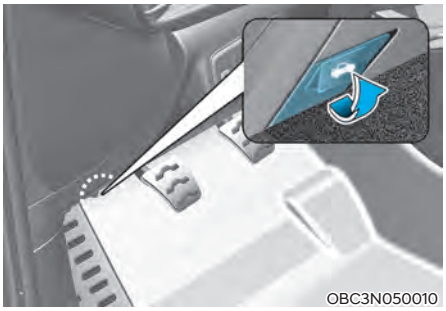
Make sure the sunroof is closed fully when leaving your vehicle.

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.

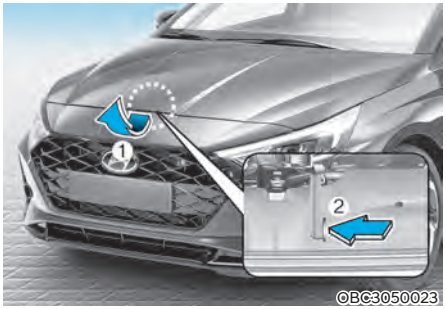
HOOD

Hood

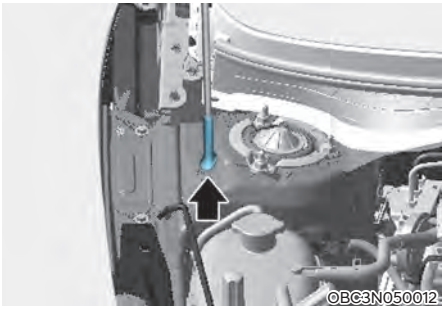
Opening the hood



1. Park the vehicle and set the parking brake.
2. Pull the release lever to unlatch the hood. The hood should pop up 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 from the hood.
5. Hold the hood opened with the support rod.

WARNING

Support rod

- **After driving, the engine compartment and support rod will be hot. Grasp the support rod in the area wrapped in plastic to prevent burns.**
- **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 materials must be removed from the engine compartment.
2. Return the support rod to its clip location for preventing 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. 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



- The tailgate is locked or unlocked when all doors are locked or unlocked with the remote key, smart key or central door lock/unlock switch.
- If unlocked, the tailgate can be opened by pulling up the tailgate outside handle.

Information

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

WARNING

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

NOTICE

Make certain that you close the tailgate before driving your vehicle. Possible damage may occur to the tailgate lift cylinders and attaching hardware if the tailgate is not closed prior to driving.

Closing the tailgate

To close the tailgate, lower and push down the tailgate firmly. Make sure that the tailgate is securely latched.

WARNING

Make sure your hands, feet and other parts of your body are safely out of the way before closing the tailgate.

CAUTION

Make sure nothing is near the tailgate latch and striker whilst closing the tailgate. It may damage the tailgate's latch.

WARNING

Exhaust fumes

If you drive with the tailgate opened, you will draw dangerous exhaust fumes into your vehicle which can cause serious injury or death to vehicle occupants.

If you must drive with the tailgate opened, keep the air vents and all windows open so that additional outside air comes into the vehicle.

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.

WARNING

Rear cargo area

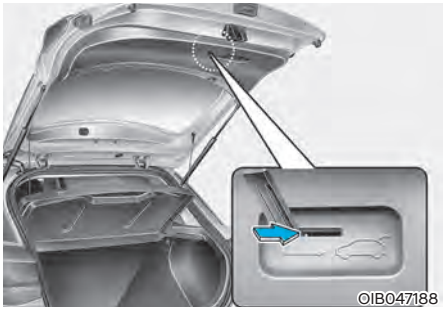
Occupants should never ride in the rear cargo area where no restraints are available. To avoid injury in the event of an accident or sudden stops, occupants should always be properly restrained.

WARNING



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

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. Input the mechanical key into the hole.
2. Push the mechanical key to the right.
3. Push up the tailgate.

WARNING

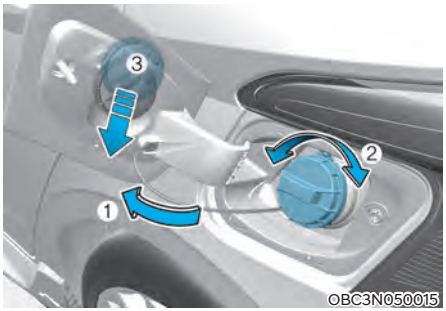
- **For emergencies, be fully aware of the location of the emergency tailgate safety release lever in the vehicle and how to open the tailgate if you are accidentally locked in the luggage compartment.**
- **No one should be allowed to occupy the luggage compartment of the vehicle at any time. The luggage 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



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



3. Pull the fuel filler door out (1) 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 (3).

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”.
2. Close the fuel filler door until it is latched securely.

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 N (Neutral, for Automatic transmission/Dual clutch transmission) or the first gear or R (Reverse, for Manual transmission) position, 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.

Information

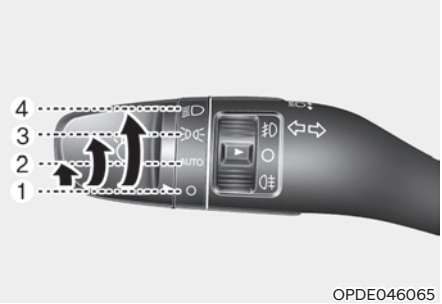
Make sure to refuel your vehicle according to the “Fuel Requirements” suggested in chapter 2.

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.

EXTERIOR LIGHTS

Lighting control



OPDE046065

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

(1) OFF (O) position

(2) AUTO light position (if equipped)

(3) Position light position

(4) Headlight position



OBC3050029

AUTO light position (if equipped)

When the light switch is in the AUTO position, the position light and headlight 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 lights 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.**


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Position light position ( )

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


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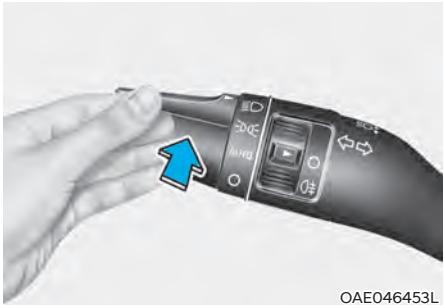
Headlight position ( )

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

Information

The ignition switch must be in the ON position to turn on the headlight.

High beam operation


OAE046453L

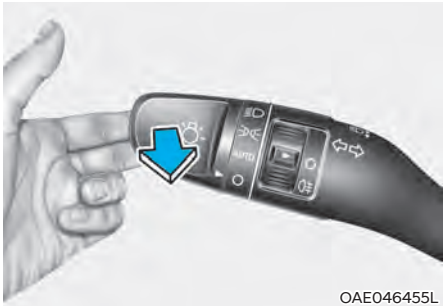
To turn on the high beam headlight, push the lever away from you.

The high beam indicator will light when the headlight high beams are switched on.

To turn off the high beam headlight, pull the lever towards you. The low beams will turn on.

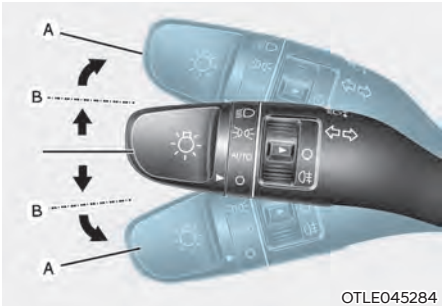
WARNING

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 headlight, 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



OTLE045284

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 or 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 Modes” in chapter 4.**

Front fog light



OPDE046066

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 lights consume large amounts of vehicle electrical power. Only use the fog lights when visibility is poor.

Rear fog light



OPDE046064

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 lamp 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 lamp, the rear fog lamp will also turn off.



Vehicle without front fog lamp

To turn on the rear fog lamp:

Position the light switch in the headlamp position, and then turn the light switch (1) to the rear fog lamp position.

To turn the rear fog lamps off, do one of the following:

- Turn off the headlamp switch.
- Turn the light switch to the rear fog lamp position again.

Battery saver function

The purpose of this feature is to prevent the battery from being discharged. The system automatically turns off the position lamp when the driver turns the engine off and opens the driver-side door.

With this feature, the position lamps will turn off automatically if the driver parks on the side of road at night.

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.

Headlamps delay function (if equipped)

If you place the ignition switch in 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.

NOTICE

If the driver exits the vehicle through another door besides the driver door, the battery saver function does not operate and the headlight delay function does not turn OFF automatically.

This may cause the battery to discharge. To avoid battery discharge, turn OFF the headlights manually from the headlight switch before exiting 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 light OFF when:

1. The parking brake is applied.
2. The engine is turned off.

Headlight leveling device



To adjust the headlight beam level according to the number of the passengers and loading weight in the luggage area, turn the beam leveling switch.

The higher the number on the switch position, the lower the headlight beam level. Always keep the headlight beam at the proper leveling position, or headlights may dazzle other road users.

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

Loading condition	Switch position
Driver only	0
Driver + Front passenger	0
Full passengers (including driver)	1
Full passengers (including driver) + Maximum permissible loading	2
Driver + Maximum permissible loading	3

WARNING

If the function does not work properly, we recommend that the system be inspected by an authorized HYUNDAI dealer. Do not attempt to inspect or replace the wiring yourself.

Low Beam Assist-Static light

While driving a corner, for greater visibility and safety, either the left or right side Low Beam Assist-Static light will turn on automatically. The Low Beam Assist-Static light will turn on when one of the following conditions occurs.

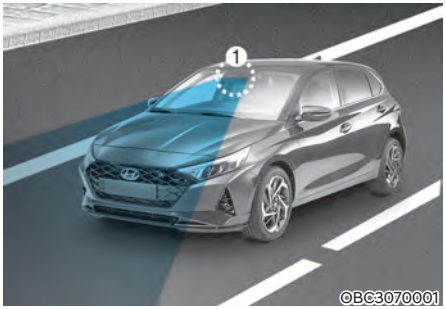
- Vehicle speed is less than 10 km/h (6 mph) and steering wheel angle is turned approximately 80 degrees with the low beam on.
- Vehicle speed is between 10 km/h (6 mph) to 90 km/h (56 mph) and steering wheel angle is turned approximately 35 degrees with the low beam on.
- When the vehicle is in reverse with one of the conditions above satisfied, the light opposite to the direction the steering wheel is turned will turn on.

HIGH BEAM ASSIST (HBA) (IF EQUIPPED)


OPDE046057

High Beam Assist is a system that automatically adjusts the headlight range (switches between high beam and low beam) according to the brightness of other vehicles and road conditions.

Detecting sensor (Front view camera)



[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.

NOTICE

good condition to maintain optimal performance of High Beam Assist.

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

Function 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.

Operating condition

1. Place the light switch in the AUTO position.
2. Turn on the high beam by pushing the lever away from you.
3. High Beam Assist (AUTO) indicator will illuminate.
4. High Beam Assist will turn on when vehicle speed is above 40 km/h (25 mph).

- If the light switch is pushed away when High Beam Assist is operating, High Beam Assist will turn off.
- If the light switch is pulled towards you when the high beam is off, the high beam will turn on. When you let go of the light switch, the lever will move to the middle and the high beam will turn off.
- If the light switch is pulled towards you when the high beam is on by High Beam Assist, and High Beam Assist will turn off.
- If the light switch is placed to the headlight 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 headlight of an on-coming vehicle is detected.
- When the tail light of a vehicle in front is detected.
- When the headlight or tail light of a motorcycle or a bicycle is detected.
- When the surrounding ambient light is bright enough that high beams are not required.
- When streetlights or other lights are detected.
- When the light switch is not in the AUTO position.
- When High Beam Assist is off.
- When the vehicle speed is below 30 km/h (19 mph).

System malfunction and limitations

System malfunction



OTM050218L

When High Beam Assist is not working properly, the warning message will come on for a few seconds. 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 system may not operate normally if any of the following conditions should occur:

1. **When the illumination from an on-coming vehicle or a vehicle in front is dim. Such examples may include:**
   - **When the headlights of an oncoming vehicle or the tail lights of a vehicle in front is covered with dust, snow, or water**
   - **When the headlights on an on-coming vehicle are OFF, but the fog lights are ON)**

2. When the front view camera is adversely affected by an external condition. Such examples may include:
   - When the vehicle's headlights have been damaged or not repaired properly
   - When the vehicle headlights are not aimed properly
   - When the vehicle is driven on a narrow curved road or rough road
   - When the vehicle is driven on an uphill road or downhill road
   - When only part of the vehicle in front is visible on a crossroad or curved road
   - When there is a traffic light, reflecting sign, flashing sign or mirror
   - When the road conditions are bad such as being wet or covered with snow
   - When a vehicle suddenly appears from a curve
   - When the vehicle is tilted from a flat tire or being towed
   - When Lane Keeping Assist system warning light illuminates
   - When the light from the oncoming or front vehicle is not detected because of exhaust fume, smoke, fog, snow, etc.
   - When the front window is covered with foreign matters such as ice, dust, fog, or is damaged
3. When the forward visibility is poor. Such examples may include:
   - When the headlights of an oncoming vehicle or a vehicle in front is not detected due to poor outside visibility (smog, smoke, dust, fog, heavy rain, snow, etc.)
   - When the windshield visibility is poor

WARNING

- The function may not work around 15 seconds after starting the vehicle or the initialization or rebooting of the front view camera.
- Do not attempt to disassemble the front view camera without the assistance of an authorized HYUNDAI dealer technician.

  If the front view camera is removed for any reason, the system may need to be re-calibrated. We recommend that the system be inspected by an authorized HYUNDAI dealer.
- If the windshield of your vehicle is replaced, most likely the front view camera will need to be re-calibrated. If this occurs, have your vehicle inspected and have the system re-calibrated by an authorized HYUNDAI dealer.
- Be careful that water doesn't get into front view camera unit and do not remove or damage related parts of High Beam Assist system.
- Do not place objects on the crash pad that reflect light such as mirrors, white paper, etc. The system may malfunction if sunlight is reflected.
- At times, High Beam Assist may not work properly. The system is for your convenience only. It is the responsibility of the driver for safe driving practices and always check the road conditions for your safety.
- When the system does not operate normally, change the light position manually between the high beam and low beam.

INTERIOR LIGHTS

NOTICE

Do not use the interior lights for extended periods when the engine is turned off or the battery will discharge.

Interior light AUTO cut

The interior lights will automatically go off approximately 20 minutes after the engine is turned off and the doors are closed. If a door is opened, the light will go off 40 minutes after the engine is turned off. If the doors are locked by the remote key or smart key and the vehicle enters the armed stage of the theft alarm system, the lights will go off five seconds later.

Front Room Lights (if equipped)



(1) Front Map Lamp
(2) Front Door Lamp
(3) Front Room Lamp ON
(4) Front Room Lamp OFF

Front map lamp:

Press either of these lenses to turn the map lamp on or off. This light produces a spot beam for convenient use as a map lamp at night or as a personal lamp for the driver and the front passenger.

Front door lamp ( ):

The front or rear room lamps come on when the front or rear doors are opened if the engine is running or not. When doors are unlocked by the remote key or smart key, the front and rear lamps come on for approximately 30 seconds as long as any door is not opened. The front and rear room lamps go out gradually after approximately 30 seconds if the door is closed. However, if the ignition switch is in the ON position or all doors are locked, the front and rear lamps will turn off. If a door is opened with the ignition switch in the ACC position or the OFF position, the front and rear lamps stay on for about 20 minutes.

Front room lamp

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

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

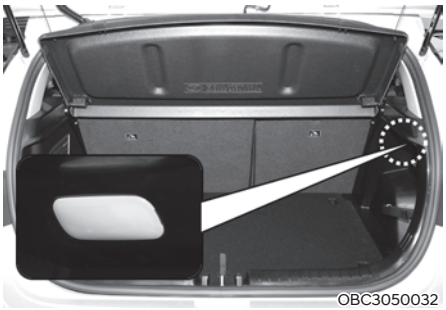
Rear lamps



Rear Interior Lamp Switch ( ):

Press this button to turn the interior lamp on and off.

Luggage compartment lamp

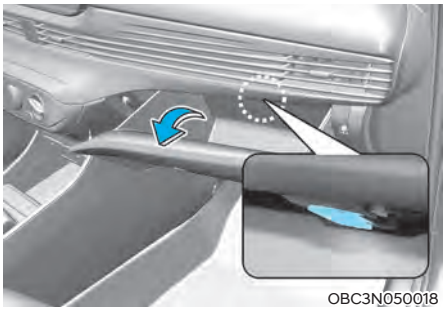


The luggage compartment lamp comes on when the tailgate is opened.

NOTICE

The luggage compartment comes on as long as the tailgate lid is open. To prevent unnecessary charging system drain, close the tailgate lid securely after using the tailgate.

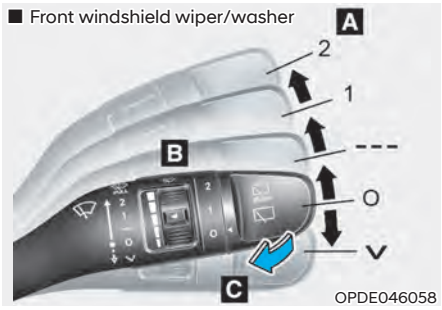
Glove box lamp (if equipped)



The glove box lamp comes on when the glove box is opened.

WIPERS AND WASHERS

■ Front windshield wiper/washer



OPDE046058

■ Rear windshield wiper/washer



OPDE046060

A : Wiper speed control

- MIST (﹀) – Single wipe
- OFF (O) – Off
- INT (---) – Intermittent wipe
- AUTO* – Auto control wipe
- LO (1) – Low wiper speed
- HI (2) – High wiper speed

B : Intermittent wipe time adjustment

C : Wash with brief wipes (front) (pull lever towards you)

D : Rear wiper control*

- 2 – High wiper speed
- 1 – Low wiper speed
- O – Off

E : Wash with brief wipes (rear) (push lever away from you)

*: if equipped

Windshield wipers

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

MIST (﹀): For a single wiping cycle, push the lever upward and release. The wipers will operate continuously if the lever is held in this position.

OFF (O): Wiper is not in operation.

INT (---): Wiper operates intermittently at the same wiping intervals. To vary the speed setting, turn the speed control knob (B).

AUTO: The rain sensor located on the upper end of the windshield glass senses the amount of rainfall and controls the wiping cycle for the proper interval. The more it rains, the faster the wiper operates. When the rain stops, the wiper stops. To vary the speed setting, turn the speed control knob.

LO (1): The wiper runs at a lower speed.

HI (2): The wiper runs at a higher speed.

Information

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

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

AUTO (Automatic) control (if equipped)

The rain sensor located at the top of the windscreen glass senses the amount of rainfall and controls the wiping cycle for the proper interval. The wiper operation time will be automatically controlled, depending on rainfall.

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

If the wiper switch is set in AUTO mode when the ignition switch is in the ON position, the wiper will operate once to perform a self-check of the system. Set the wiper to the OFF position when the wiper is not in use.

WARNING

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

Do not touch the upper end of the windscreen glass facing the rain sensor.

Do not wipe the top of the windscreen glass with a damp or wet cloth.

Do not put pressure on the windscreen glass.

NOTICE

When washing the vehicle, set the wiper switch in the OFF position to stop the auto wiper operation. The wiper may operate and be damaged if the switch is set in the AUTO mode whilst washing the vehicle.

Do not remove the sensor cover located at the top of the passenger side windscreen glass. Damage to system parts could occur and may not be covered by your vehicle warranty.

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.

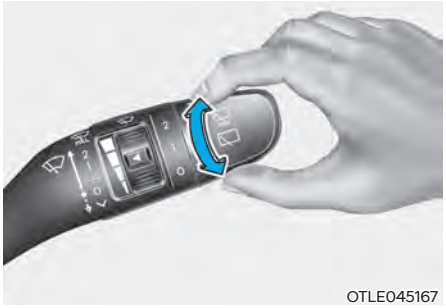
WARNING

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)

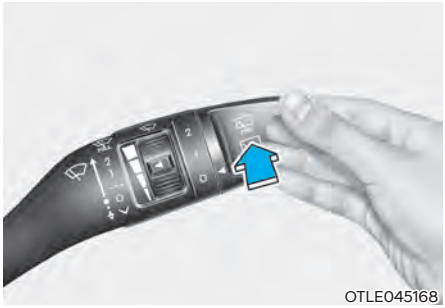


OTLE045167

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

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

· 2 – High wiper speed
· 1 – Low wiper speed
· O – Off



OTLE045168

Push the lever away from you to spray rear washer fluid and to run the rear wipers 1~3 cycles. The spray and wiper operation will continue until you release the lever. (if equipped)

Auto rear wiper (if equipped)

The rear wiper will operate while the vehicle is in reverse with the front wiper ON by selecting the function on the LCD display.

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

MANUAL CLIMATE CONTROL SYSTEM (IF EQUIPPED)

■ Left Hand Drive



■ Right Hand Drive



OBC3050100/OBC3050100R

1. Temperature control knob
2. Fan speed control knob
3. Mode selection knob
4. Air intake control button (recirculated air position or outside (fresh) air position)
5. A/C (Air conditioning) button (if equipped)
6. 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

■ Left Hand Drive



OBC3050102

■ Right Hand Drive



OBC3050102R



OBC3050103TU

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. Five symbols are used to represent Face, Bi-Level, Floor, Floor-Defrost and Defrost air position.

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)

Air flow is directed towards the face and the floor.

Floor-Level (A, C, D)

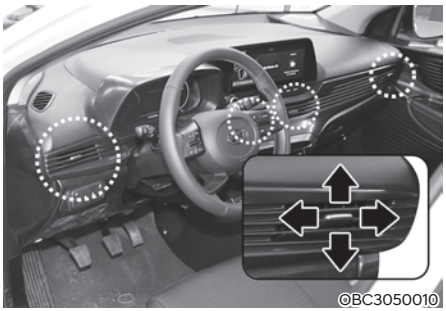
Most of the air flow is directed to the floor, with a small amount of the air being directed to the windshield, side window defrosters and side vents.

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

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

Defrost-Level (A, D)

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


OBC3050010

Instrument panel vents

The instrument panel vent air flow can be directed up/down or left/right using the vent adjustment lever.

To close the vent adjustment lever, rotate it to the outer side till the end. To open the vent, rotate it to the inner side.

Temperature control



OBC3050104TU

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



OBC3050105TU

The air intake control button is used to select either Fresh mode (outside air) or Recirculation mode (cabin air).

Recirculation mode



When Recirculation mode is selected, air from the passenger compartment will be recirculated through the system and heated or cooled according to the function selected.

Fresh mode



When Fresh mode is selected, air enters the vehicle from outside and is heated or cooled according to the function selected.

Information

Operating the system primarily in Fresh mode is recommended. Use Recirculation mode temporarily only when needed.

Prolonged operation of the heater in Recirculation mode and without the A/C ON can cause fogging of the windshield.

In addition, prolonged use of the A/C ON in Recirculation mode may result in excessively dry, dehumidified air in the cabin and may promote formation of musty vent odor due to stagnant air.

WARNING

- **Continued use of the climate control system operation in Recirculation mode for a prolonged period of time may cause drowsiness to the occupants in the cabin. This may lead to loss of vehicle control which may lead to an accident.**
- **Continued use of the climate control system operation in Recirculation mode with the A/C OFF may allow humidity to increase inside the cabin.**

  This may cause condensation to accumulate on the windshield and obscure visibility.
- **Do not sleep in your vehicle or remain parked in your vehicle with the windows up and either the heater or the air conditioning ON for prolonged periods of time. Doing so may increase the levels of carbon dioxide in the cabin which may lead to serious injury or death.**

Fan speed control



OBC3050106TU

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 (if equipped)



OBC3050107TU

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. Select the Face Level mode.
2. Set the air intake control to fresh mode.
3. Set the temperature control to the desired position.
4. Set the fan speed control to the desired speed.

Heating

1. Select the Floor Level mode.
2. Set the air intake control to fresh mode.
3. Set the temperature control to the desired position.
4. Set the fan speed control to the desired speed.
5. If desired, turn the air conditioning ON with the temperature control knob set to heat in order to dehumidify the air before it enters into the cabin.

If the windshield fogs up, select the Floor & Defrost mode or press the Front Defrost mode.

Operation Tips

- To keep dust or unpleasant fumes from entering the vehicle through the ventilation system, temporarily set the air intake control to the recirculation mode. Be sure to return the control to fresh mode 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 fresh mode and fan speed to the desired position, turn on the air conditioning system, and adjust the temperature control to desired temperature.

Air conditioning

HYUNDAI Air Conditioning Systems are filled with R-134a or R1234yf refrigerant.

1. Start the engine.
2. Push the air conditioning button.
3. Select the Face Level mode.
4. Set the air intake control to Recirculation mode temporarily to allow the cabin to cool quickly. When the desired temperature in the cabin is reached, change the air intake control back to Fresh mode.
5. Adjust the fan speed control and temperature control to maintain maximum comfort.

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.

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.**

Information

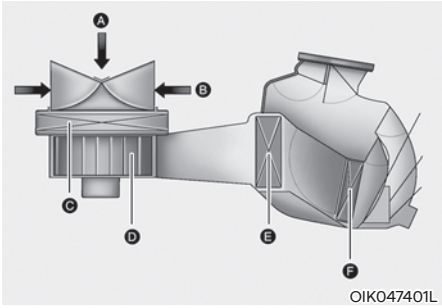
- **When using the air conditioning system, monitor the temperature gauge closely while driving up hills or in heavy traffic when outside temperatures are high. Air conditioning system operation may cause engine overheating. Continue to use the blower fan but turn the air conditioning system off if the temperature gauge indicates engine overheating.**
- **When opening the windows in humid weather, air conditioning may create water droplets inside the vehicle. Since excessive water droplets may cause damage to electrical equipment, air conditioning should only be used with the windows closed.**

Air conditioning system operation tips

- If the vehicle has been parked in direct sunlight during hot weather, open the windows for a short time to let the hot air inside the vehicle escape.
- After sufficient cooling has been achieved, switch back from recirculation mode to fresh mode.
- To help reduce moisture inside of the windows on rainy or humid days, decrease the humidity inside the vehicle by operating the air conditioning system with the windows and sunroof closed.
- During air conditioning system operation, you may occasionally notice a slight change in engine speed as the air conditioning compressor cycles. This is a normal system operation characteristic.
- Use the air conditioning system every month only for a few minutes to ensure maximum system performance.
- When using the air conditioning system, you may notice clear water dripping (or even puddling) on the ground under the passenger side of the vehicle. This is a normal system operation characteristic.
- 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



OIK047401L

[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.

Information

- **Replace the filter according to the Maintenance Schedule.**
- **If the car is being driven in severe conditions such as dusty, rough roads, more frequent climate control air filter inspections and changes are required.**
- **When the air flow rate suddenly decreases, we recommend that the system be checked by an authorized HYUNDAI dealer.**

Checking the amount of air conditioner refrigerant and compressor lubricant

When the amount of refrigerant is low, the performance of the air conditioning is reduced. Overfilling also has a bad influence on the air conditioning system.

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

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 (Refer to the SAE J2845). 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.

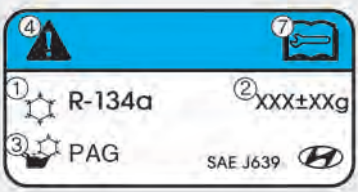


Air Conditioning refrigerant label

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

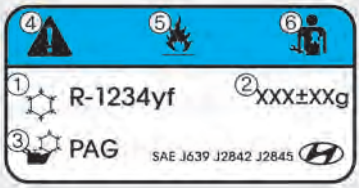
■ Example

• Type A



OHYK059004

• Type B



OHYK059001

Each symbol and specification on the air conditioning refrigerant label are 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)

■ Left Hand Drive



■ Right Hand Drive



OBC3050108/OBC3050108R

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

Automatic heating and air conditioning



OBC3050110

1. Press the AUTO button.

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



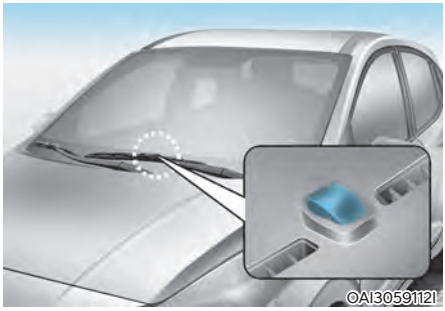
OBC3050111

2. Push the temperature control switch to set the desired temperature. If the temperature is set to the lowest setting (Lo), the air conditioning system will operate continuously.

- To turn the automatic operation off, select any button of the following:
  - Mode selection button
  - Front windshield defroster button

    (Press the button one more time to deselect the front windshield defroster function. The 'AUTO' sign will illuminate on the information screen once again.)
  - Fan speed control toggle switch

    The selected function will be controlled manually while other functions operate automatically.
- For your convenience, use the AUTO button and set the temperature to 22°C (72°F).



OAI3059112I

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.
   To improve the effectiveness of heating and cooling, select the mode according to the following:
   - Heating:
   - Cooling:
3. Set the temperature control to the desired position.
4. Set the air intake control to fresh mode.
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 in order to convert to fully automatic control of the system.

Mode selection

■ Left Hand Drive

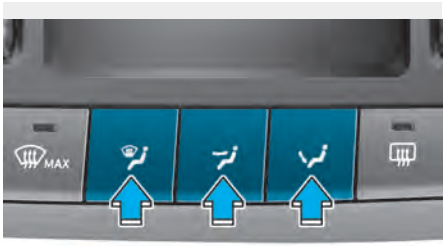


OBC3050102

■ Right Hand Drive



OBC3050102R



OBC3050112

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

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)

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 (A, C, D)

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



OBC3050113

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.



OBC3050010

Instrument panel vents

The instrument panel vent air flow can be directed up/down or left/right using the vent adjustment lever.

To close the vent adjustment lever, rotate it to the outer side till the end. To open the vent, rotate it to the inner side.

Temperature control



The temperature will increase by pushing the switch to up.

The temperature will decrease by pushing the switch to down.

The temperature will increase or decrease by 0.5°C (1°F) for each incremental location. When set to the lowest temperature setting, the air conditioning will operate continuously.

Temperature conversion

If the battery has been discharged or disconnected, the temperature mode display will reset to Centigrade.

To change the temperature unit from °C to °F or °F to °C:

- Automatic climate control system

  Press the AUTO button for 3 seconds while pressing the OFF button.

- Instrument cluster

  Go to User Settings → Units → Temperature Unit.

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

Air intake control



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

To change the air intake control position, push the control button.

Recirculated air position



With the recirculated air position selected, air from the passenger compartment will be drawn through the heating system and heated or cooled according to the function selected.

Outside (fresh) air position



With the outside (fresh) air position selected, air enters the vehicle from outside and is heated or cooled according to the function selected.

Information

Operating the system primarily in Fresh mode is recommended. Use Recirculation mode temporarily only when needed.

Prolonged operation of the heater in Recirculation mode and without the A/C ON can cause fogging of the windshield.

In addition, prolonged use of the A/C ON in Recirculation mode may result in excessively dry, dehumidified air in the cabin and may promote formation of musty vent odor due to stagnant air.

WARNING

- **Continued use of the climate control system operation in Recirculation mode for a prolonged period of time may cause drowsiness to the occupants in the cabin. This may lead to loss of vehicle control which may lead to an accident.**
- **Continued use of the climate control system operation in Recirculation mode with the A/C OFF may allow humidity to increase inside the cabin.**

  This may cause condensation to accumulate on the windshield and obscure visibility.
- **Do not sleep in your vehicle or remain parked in your vehicle with the windows up and either the heater or the air conditioning ON for prolonged periods of time. Doing so may increase the levels of carbon dioxide in the cabin which may lead to serious injury or death.**

Fan speed control



Push the switch to up to increase the fan speed and airflow. Push the switch to down to decrease fan speed and airflow.

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



OBC3050116

Push the A/C button to manually turn the air conditioning system on (indicator light will illuminate).

Push the button again to turn the air conditioning system off.

OFF mode



OBC3050117

Push the OFF button of the front to turn off the climate control system.

You can still operate the air intake buttons as long as the ignition switch is in the ON position.

However, the air climate control system turns on when you push the mode selection buttons.

System operation

Ventilation

1. Select the Face Level mode.
2. Set the air intake control to fresh mode.
3. Set the temperature control to the desired position.
4. Set the fan speed control to the desired speed.

Heating

1. Select the Floor Level mode.
2. Set the air intake control to fresh mode.
3. Set the temperature control to the desired position.
4. Set the fan speed control to the desired speed.
5. If desired, turn the air conditioning ON with the temperature control knob set to heat in order to dehumidify the air before it enters into the cabin.

If the windshield fogs up, select the Floor & Defrost mode or press the Front Defrost mode.

Operation Tips

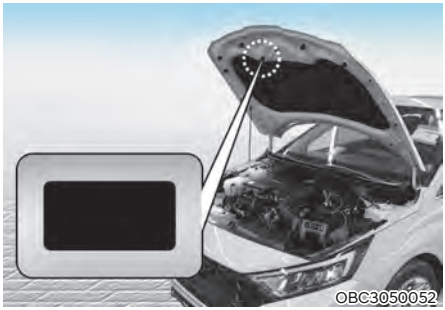
- To keep dust or unpleasant fumes from entering the vehicle through the ventilation system, temporarily set the air intake control to the recirculation mode. Be sure to return the control to fresh mode position when the irritation has passed to keep fresh air in the vehicle. This will help keep the driver alert and comfortable.
- To prevent interior fog on the windshield, set the air intake control to fresh mode and fan speed to the desired position, turn on the air conditioning system, and adjust the temperature control to desired temperature.

Air conditioning

HYUNDAI Air Conditioning Systems are filled with R-134a or R-1234yf refrigerant.

1. Start the engine.
2. Push the air conditioning button.
3. Select the Face Level mode.
4. Set the air intake control to Recirculation mode temporarily to allow the cabin to cool quickly. When the desired temperature in the cabin is reached, change the air intake control back to Fresh mode.
5. Adjust the fan speed control and temperature control to maintain maximum comfort.

Information



Your vehicle is filled with R-134a 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 in front of the engine compartment.

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.**

Information

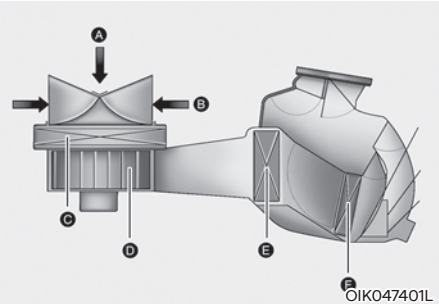
- **When using the air conditioning system, monitor the temperature gauge closely while driving up hills or in heavy traffic when outside temperatures are high. Air conditioning system operation may cause engine overheating. Continue to use the blower fan but turn the air conditioning system off if the temperature gauge indicates engine overheating.**
- **When opening the windows in humid weather, air conditioning may create water droplets inside the vehicle. Since excessive water droplets may cause damage to electrical equipment, air conditioning should only be used with the windows closed.**

Air conditioning system operation tips

- If the vehicle has been parked in direct sunlight during hot weather, open the windows for a short time to let the hot air inside the vehicle escape.
- After sufficient cooling has been achieved, switch back from recirculation mode to fresh mode.
- To help reduce moisture inside of the windows on rainy or humid days, decrease the humidity inside the vehicle by operating the air conditioning system with the windows and sunroof closed.
- During air conditioning system operation, you may occasionally notice a slight change in engine speed as the air conditioning compressor cycles. This is a normal system operation characteristic.
- Use the air conditioning system every month only for a few minutes to ensure maximum system performance.
- When using the air conditioning system, you may notice clear water dripping (or even puddling) on the ground under the passenger side of the vehicle. This is a normal system operation characteristic.
- 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

The climate control air filter installed behind the glove box filters the dust or other pollutants that come into the vehicle from the outside through the heating and air conditioning system. If dust or other pollutants accumulate in the filter over a period of time, the air flow from the air vents may decrease, resulting in moisture accumulation on the inside of the windshield even when the outside (fresh) air position is selected.

If this happens, we recommend that the climate control air filter be replaced by an authorized HYUNDAI dealer.

Information

- **Replace the filter according to the Maintenance Schedule.**

  If the car is being driven in severe conditions such as dusty, rough roads, more frequent climate control air filter inspections and changes are required.
- **When the air flow rate suddenly decreases, we recommend that the system be checked by an authorized HYUNDAI dealer.**

Checking the amount of air conditioner refrigerant and compressor lubricant

When the amount of refrigerant is low, the performance of the air conditioning is reduced. Overfilling also has a bad influence on the air conditioning system.

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

NOTICE

It is important that the correct type and amount of oil and refrigerant are 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 (Refer to the SAE J2845). 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.

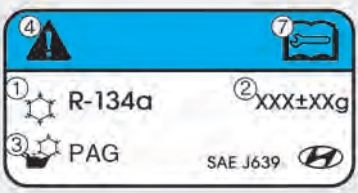


Air Conditioning refrigerant label

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

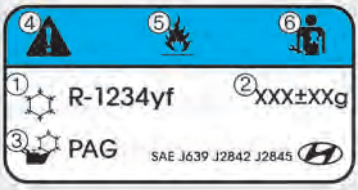
■ Example

• Type A



OHYK059004

• Type B



OHYK059001

Each symbol 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 defrost performance, set the temperature control knob to the highest temperature setting (rotated all the way to the right) and the fan speed control to the highest setting.
- If warm air to the floor is desired while defrosting or defogging, set the mode to the floor-defrost position.
- Before driving, clear all snow and ice from the windshield, rear window, 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



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.

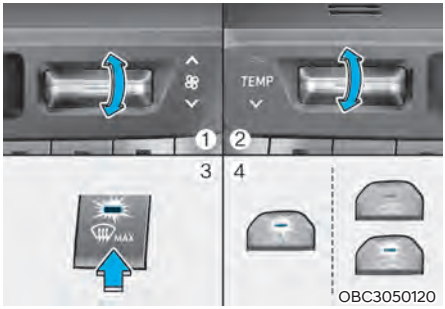
To defrost outside windshield



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 windscreen

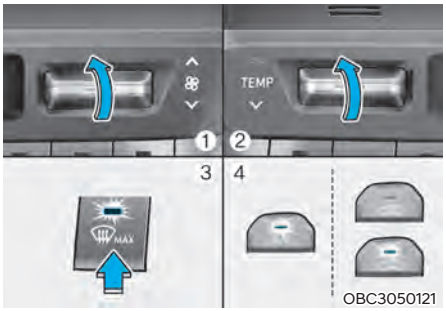


1. Select desired blower speed.
2. Select desired temperature.
3. Press the defroster button ( ).
4. The air-conditioning will turn on according to the detected ambient temperature, fresh mode and higher blower speed will be selected automatically.

If the air-conditioning, fresh mode and higher blower speed are not selected automatically, adjust the corresponding button or knob manually.

If the position is selected, lower blower speed is controlled to higher blower speed.

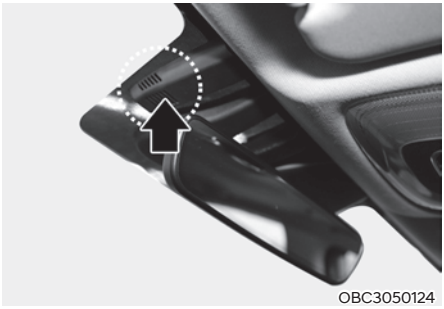
To defrost outside windscreen



1. Set blower 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 fresh mode will be selected automatically.

If the position is selected, lower blower speed is controlled to higher blower speed.

Auto defogging system (only for automatic climate control system, if equipped)



Auto defogging helps reduce the possibility of fogging up the inside of the windscreen by automatically sensing the moisture on inside the windscreen.

The auto defogging system operates when the heater or air conditioning is on.

AUTO

When the Auto Defogging System operates, the indicator will illuminate.

If a high amount of humidity is detected in the vehicle, the Auto Defogging System will be enabled.

The following steps will be performed automatically:

Step 1) The A/C button will turn ON.

Step 2) The air intake control will change to Fresh mode under low outside temperature.

Step 3) The mode will be changed to defrost to direct airflow to the windscreen.

Step 4) The blower speed will be increased.

To cancel or reset the Auto Defogging System

Press the front windscreen defroster button for 3 seconds when the ignition switch is in the ON position.

When the Auto Defogging System is cancelled, defrost button indicator will blink 3 times.

When the Auto Defogging System is reset, defrost button indicator will blink 6 times without a signal.

Information

When the air conditioning is turned on by Auto defogging system, if you try to turn off the air conditioning, the indicator will blink 3 times and the air conditioning will not be turned off.

To maintain the effectiveness and efficiency of the Auto Defogging System, do not select Recirculation mode whilst the system is operating.

When the Auto Defogging System is operating, the blower speed adjustment knob, the temperature adjustment knob, and the air intake control button are all disabled.

NOTICE

Do not remove the sensor cover located at the top of the driver side windscreen 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.

Information

If you want to defrost and defog the front windshield, refer to "Windshield Defrosting and Defogging" in this chapter.

Rear window defroster

■ Manual climate control system



OBC3050122TU

■ Automatic climate control system



OBC3050123

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.

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 LOCK/OFF position.**

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.

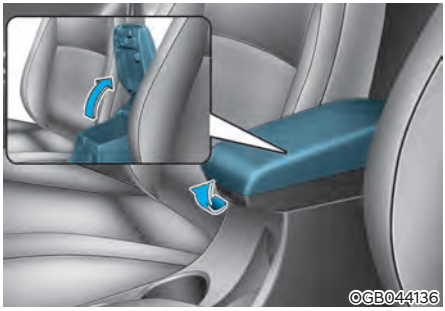
WARNING

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



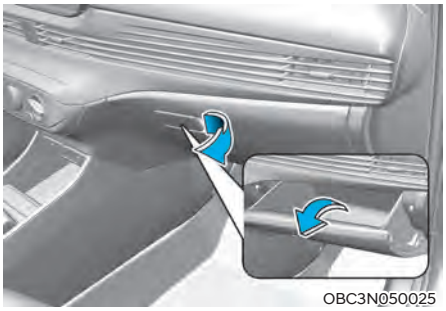
To open:

Grab and hold the latch on the armrest then lift the lid.

WARNING

Do not place the heavy, sharp or breakable objects in the tray. Such objects can be thrown from the tray in the event of a sudden stop or an accident, possibly injuring the passengers in the vehicle.

Glove box


OBC3N050025

To open the glove box, pull the lever and the glove box will automatically open. Close the glove box after use.

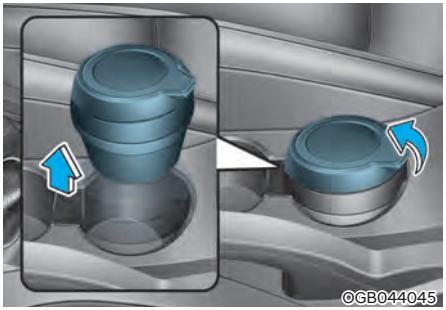
WARNING

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.

INTERIOR FEATURES

Ashtray (if equipped)



To use the ashtray, open the cover.

To clean the ashtray:

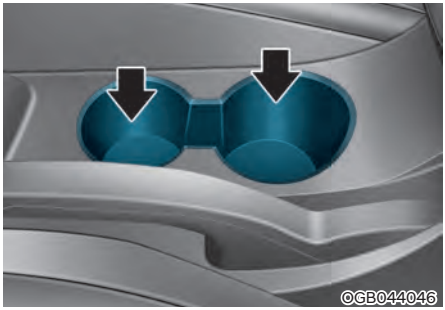
The plastic receptacle should be removed by lifting the plastic ashtray receptacle upward after turning the cover counterclockwise and pulling it out.

WARNING

Ashtray use

Putting lit cigarettes or matches in an ashtray with other combustible materials may cause a fire.

Cup holder



Cups or small beverages cups may be placed in 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 sudden stop or collision.**
- **Only use soft cups in the cup holders. Hard objects can injure you in an accident.**

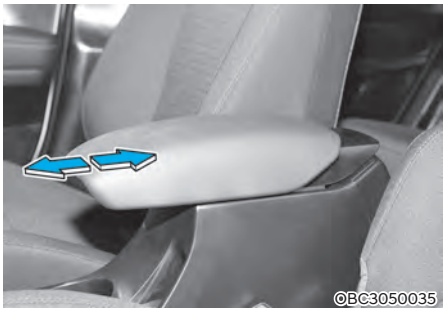
WARNING

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 using hot temperatures. This may damage the cup holder.**

Sliding armrest (if equipped)



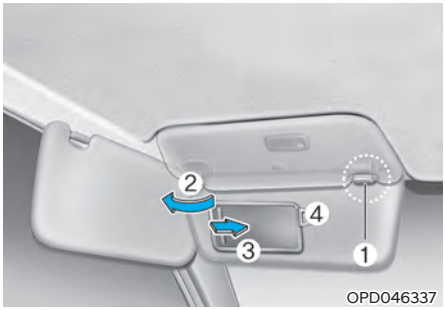
To move the armrest forward:

Grab the front portion of armrest then pull it forward.

To move the armrest rearward:

Grab the front portion of armrest then push it rearward.

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.

Information

Close the vanity mirror cover securely and return the sunvisor to its original position after use.

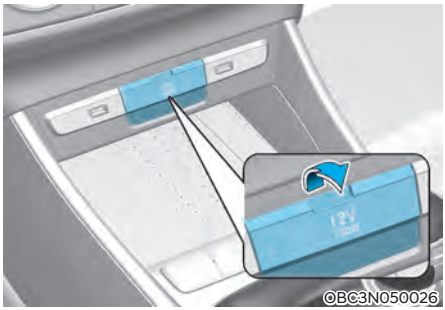
WARNING

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(Watts) with the engine running.

WARNING

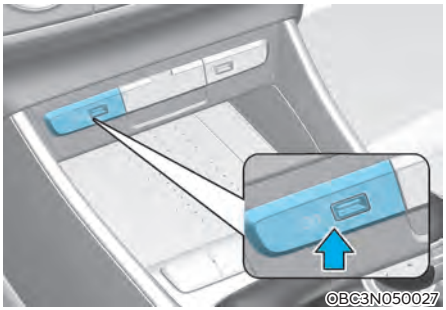
Avoid electrical shocks. Do not place your fingers or foreign objects (pin, etc.) into a power outlet or touch the power outlet with a wet hand.

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(Watts) 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.**

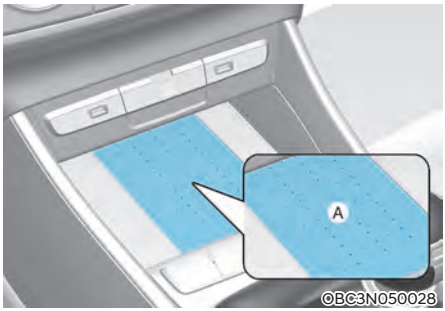
USB charger (if equipped)



The USB charger is located inside the console box between the driver's seat and the front passenger's seat. Insert the USB charger into the USB port, and re-charge a smart phone or a tablet PC.

- A charging status/charging completion message is displayed on a screen of a smart phone or a tablet PC.
- A smart phone or a tablet PC may get warmer during the re-charging process. It does not indicate any malfunction with the charging system.
- A smart phone or a tablet PC, which adopts a different re-charging method, may not be properly re-charged. In this case, use an exclusive charger of your device.
- The charging terminal is only to re-charge a device. Do not use the charging terminal either to turn ON an audio or to play media on the AVN.

Wireless cellular phone charging system (if equipped)



[A]: 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 ( ). 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 "LCD Display Modes" 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.

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.

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 ( ).
- When placing your cellular phone on the charging mat, position the phone in the middle of the mat for optimal charging performance. If your cell phone is off to the side, the charging rate may be less and in some cases the cell phone may experience higher heat conduction.
- In some cases, the wireless charging may stop temporarily when the Remote Key or Smart Key is used, either when starting the vehicle or locking/unlocking the doors, etc.
- When charging certain cellular phones, the charging indicator may not change to green when the cell phone is fully charged.
- The wireless charging process may temporarily stop, when temperature abnormally increases inside the wireless cellular phone charging system. The wireless charging process restarts, when temperature falls to a certain level.
- The wireless charging process may temporarily stop when there is any metallic item, such as a coin, between the wireless cellular phone charging system and a cellular phone.
- When charging some cellular phones with a self-protection feature, the wireless charging speed may decrease and the wireless charging may stop.
- If the cellular phone has a thick cover, the wireless charging may not be possible.
- If the cellular phone is not completely contacting the charging pad, wireless charging may not operate properly.
- Some magnetic items (credit cards, phone cards, passbook and tickets) may be damaged while using the wireless 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.
- Some cellular phones may not be able to put on the charging pad due to their size. In this case, wireless charging may be limited.

Information

If the ignition switch is in the LOCK/OFF position, the charging also stops.

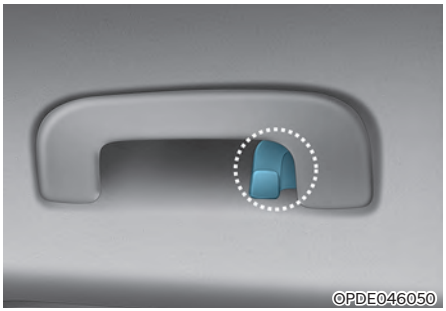
Clock

WARNING

Do not adjust the clock while driving. You may lose your steering control and cause severe personal injury or accidents.

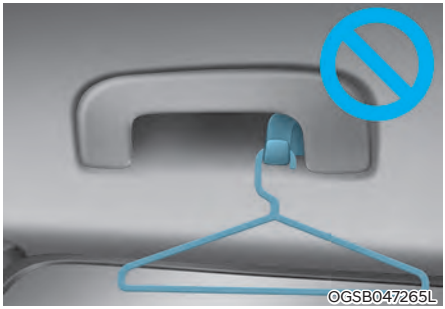
For more details, please refer to the manual that was supplied with your vehicle.

Coat hook



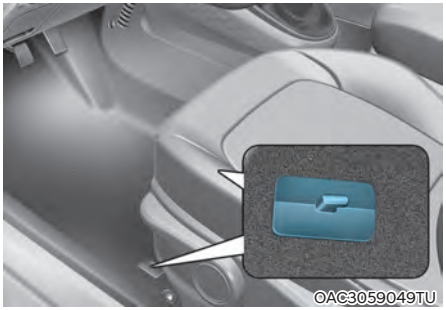
These hooks are not designed to hold large or heavy items.

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) (if equipped)



To keep items from shifting in the cargo area, you can use the four holders located in the cargo area to attach the luggage net.

If necessary, we recommend that you contact an authorized HYUNDAI dealer to obtain a luggage net.

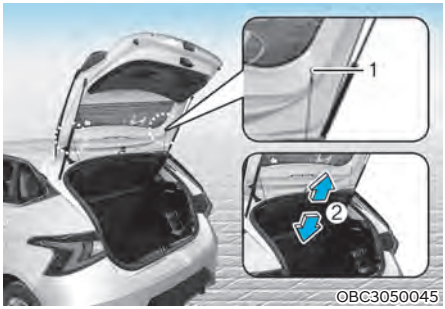
CAUTION

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 cargo area cover to hide items stored in the cargo area.

The cargo area cover can be uprighted or removed.

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. Such objects may be thrown about inside the vehicle and possibly injure vehicle occupants during an accident or 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 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	70 kg (154 lbs) EVENLY DISTRIBUTED

Loading cargo or luggage in excess of the specified weight limit on the roof rack may damage your vehicle.

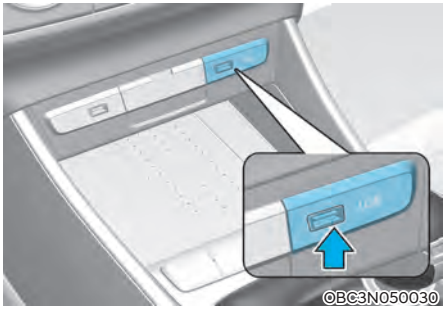
- **The vehicle center of gravity will be higher when items are loaded onto the roof rack. Avoid sudden starts, braking, sharp turns, abrupt maneuvers or high speeds that may result in loss of vehicle control or rollover resulting in an accident.**
- **Always drive slowly and turn corners carefully when 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

Information

- **If you install an aftermarket HID headlamp, your vehicle's audio and electronic device may malfunction.**
- **Prevent chemicals such as perfume, cosmetic oil, sun cream, hand cleaner, and air freshener from contacting the interior parts because they may cause damage or discoloration.**

USB port



You can use an USB port to plug in an USB.

Information

When using a portable audio device connected to the power outlet, noise may occur during playback. If this happens, use the power source of the portable audio device.

Antenna

Pole antenna (if equipped)



The pole antenna receives both AM and FM broadcast signals.

This antenna pole is removable.

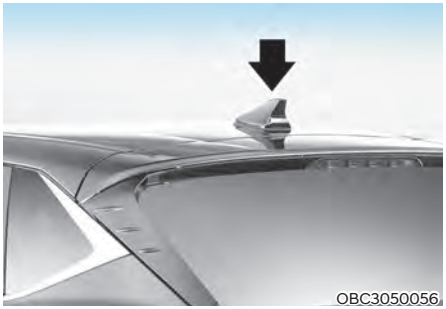
Rotate the antenna in a counterclockwise direction to remove it.

Rotate it in a clockwise direction to reinstall it.

NOTICE

- **Before entering a place with a low height clearance, be sure that the antenna is removed.**
- **Be sure to remove the antenna before washing the vehicle in an automatic car wash or it 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. But it could be removed when parking the vehicle.**

Shark fin antenna (if equipped)

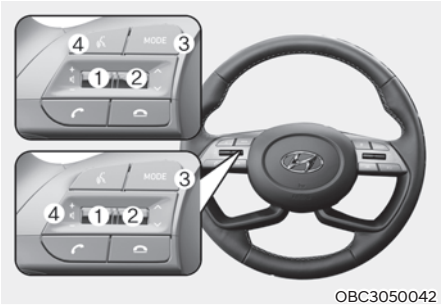


The shark fin antenna receives transmitted data. (for example: GPS)

Information

Some models do not have audio (plastic blanking cover) system, and will not supply radio main cable. Thus if you want to insert Aftermarket audio or OEM audio to listen radio broadcasting service, we recommend to use the feeder cable available with an authorized HYUNDAI dealer.

Steering wheel audio control (if equipped)



The steering wheel audio control switches are installed for your convenience.

NOTICE

Do not operate audio remote control buttons simultaneously.

VOLUME (VOL + / VOL -) (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 second 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/ MEDIA/Bluetooth Audio, etc.

MUTE (🔇) (4, if equipped)

- Press the button to mute the sound.
- Press the button again to activate the sound.

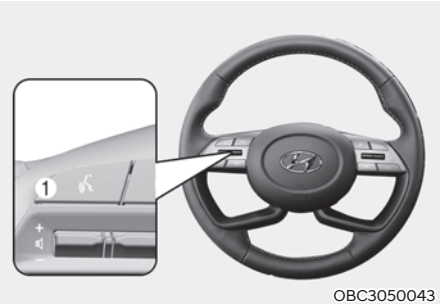
Information

Detailed information for audio control buttons is described in the following pages in this chapter.

Infotainment system (if equipped)

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

Voice recognition (if equipped)

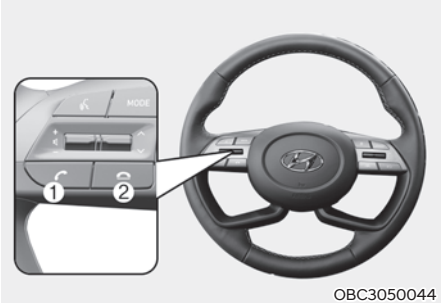


OBC3050043

A wide range of infotainment functions can be commanded with voice recognition (1).

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

Bluetooth® Wireless Technology hands-free (if equipped)



OBC3050044



OBC3N050017

You can use the phone wirelessly by using the Bluetooth® Wireless Technology.

(1) Call / Answer button

(2) Call end button

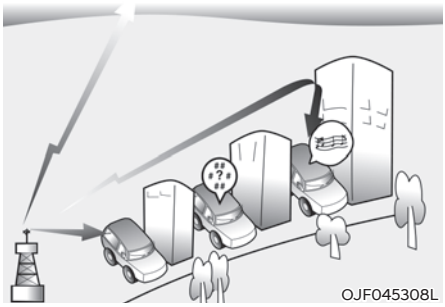
(3) LHD Microphone

(4) RHD Microphone

- Audio: For detailed information, refer to the manual supplied separately.
- Navigation: Detailed information for the Bluetooth® Wireless Technology hands-free is described in the manual supplied separately.

How vehicle radio works

FM reception

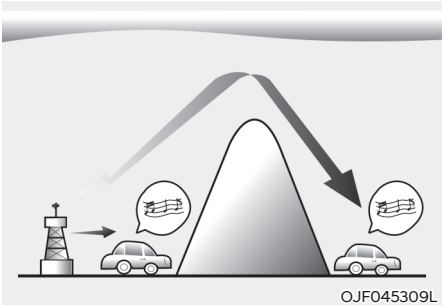

OJF045308L

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.

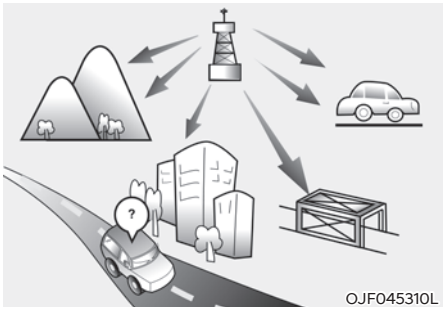
This can be due to factors, such as the distance from the radio station, closeness of other strong radio stations or the presence of buildings, bridges or other large obstructions in the area.

AM (MW, LW) reception

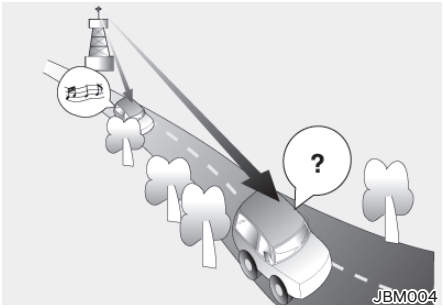

OJF045309L

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.

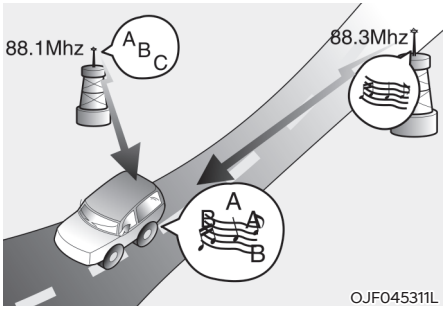
FM radio station



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.

AUDIO (WITHOUT TOUCH SCREEN)

System layout – control panel

■ Type A



(With *Bluetooth*® Wireless Technology)

(1) **AUDIO button**

- Press to display the radio/media mode selection window.
- When the mode selection window displays, turn the [**TUNE**] knob to select the desired mode and then press the knob.
- When the Mode popup is not selected in [**MENU/CLOCK**] ▶ **Mode popup**, press the [**AUDIO**] button on the control panel to change the mode. Each time you press the [**AUDIO**] button on the control panel, the mode switches to radio ▶ media in order.

(2) **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.

(3) **FAV button**

- While listening to the radio, press to move to next page of the preset list.

(4) **PWR button/VOL knob**

- Press to turn the system on or off.
- Turn to the left or right to adjust the system sound volume.

❊ The system's actual appearance and layout may differ depending on the vehicle model and specification.

■ Type A



(With *Bluetooth*® Wireless Technology)

(5) **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).

(6) **MENU button/CLOCK button**

- Press to access the menu screen for the current mode.
- Press and hold to access the time setup screen.

(7) **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).
- While searching by turning the knob, press to select the current track/file (except for the Bluetooth audio mode).

(8) **Number buttons (1 RPT~ 4 BACK)**

- 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.
- In the USB/Bluetooth audio modes, press the [**1 RPT**] button to change the repeat play mode. Press the [**2 SHFL**] button to change the shuffle play mode.
- Press the [**4 BACK**] button to return to the previous screen (except for the radio preset list).

❈ The system's actual appearance and layout may differ depending on the vehicle model and specification.

■ Type B



(With *Bluetooth*® Wireless Technology)

(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) **MENU button/CLOCK button**

- Press to access the menu screen for the current mode.
- Press and hold to access the time setup screen.

(3) **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).
- While searching by turning the knob, press to select the current track/file (except for the Bluetooth audio mode).

(4) **AUDIO button**

- Press to display the radio/media mode selection window.
- When the mode selection window displays, turn the [**TUNE**] knob to select the desired mode and then press the knob.
- When the Mode popup is not selected in [**MENU/CLOCK**] ▶ **Mode popup**, press the [**AUDIO**] button on the control panel to change the mode. Each time you press the [**AUDIO**] button on the control panel, the mode switches to radio ▶ media in order.

❊ The system's actual appearance and layout may differ depending on the vehicle model and specification.

■ Type B



(With *Bluetooth*® Wireless Technology)

(5) **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.

(6) **FAV button**

- While listening to the radio, press to move to next page of the preset list.

(7) **PWR button/VOL knob**

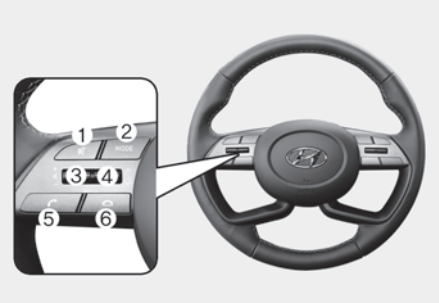
- Press to turn the system on or off.
- Turn to the left or right to adjust the system sound volume.

(8) **Number buttons (1 RPT~ 4 BACK)**

- 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.
- In the USB/Bluetooth audio modes, press the [**1 RPT**] button to change the repeat play mode. Press the [**2 SHFL**] button to change the shuffle play mode.
- Press the [**4 BACK**] button to return to the previous screen (except for the radio preset list).

❈ 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. (if equipped)

(2) **MODE button**

- Press to switch between radio and media modes.
- Press and hold to turn the system on or off.

(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, press to access your call history. 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 end button**

- When a call comes in, reject the call.
- During a call, end the call.

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.

NOTICE

Manufacturer: HYUNDAI MOBIS Co., Ltd.

203, Teheran-ro, Gangnam-gu, Seoul, 06141 , Korea

Tel: +82-31-260-2707

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.

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 center. 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.**

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 [**PWR**] button on the control panel. To use the system again, press the [**PWR**] 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.**

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 [**MENU/CLOCK**] button.
2. When the option selection window displays, turn the [**TUNE**] knob to select **Display off**, and then press the knob.
   - To turn the screen back on, press any of the control panel buttons.

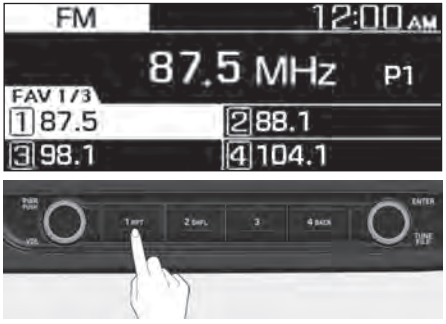
Getting to know the basic operations

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

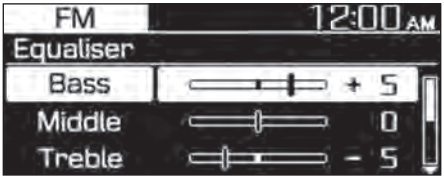
Turn the [**TUNE**] knob to select the desired item, and then press the knob.



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.



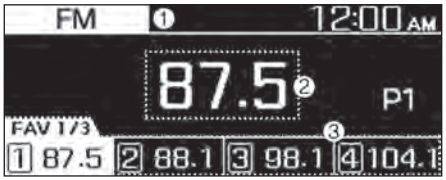
❈ The system's actual appearance and layout may differ depending on the vehicle model and specification.

RADIO

Turning on the radio

1. On the control panel, press the [**AUDIO**] button.
2. When the mode selection window displays, turn the [**TUNE**] knob to select the desired radio mode and then press the knob.

FM/AM Mode



(1) Current radio mode

(2) Radio station information

(3) Preset list

Press the [**MENU/CLOCK**] button on the control panel to access the following menu options:

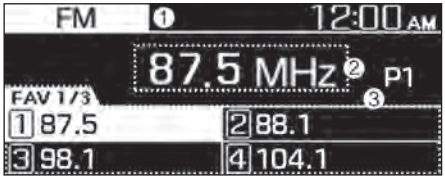
- **Autostore**: Save radio stations to the preset list.
- **Scan**: The system searches for radio stations with strong radio signals and plays each radio station for about five seconds.
- **Sound settings**: You can change the settings related to sounds, such as location where sound will be concentrated and the output level for each range.
  - **Balance**: Select a location where sound will be concentrated in the vehicle. Select **Balance**, turn the [**TUNE**] knob to select the desired position, and then press the knob. To set sound to be centered in the vehicle, select **Centre**.
  - **Equaliser**: Adjust the output level for each sound tone mode.
  - **Speed dependent vol.**: Set the volume to be adjusted automatically according to your driving speed.

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.**

- **Mode popup**: Set to display mode selection window when the [**AUDIO**] button is pressed on the control panel.
- **Date/Time**: You can change the date and time that are shown on the system display.
  - **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.
  - **Display (Power Off)**: Set to display the clock when the system power is off.
- **Language**: You can change the display language.

FM/AM Mode (With RDS)



(1) Current radio mode

(2) Radio station information

(3) Preset list

Press the [**MENU/CLOCK**] button on the control panel to access the following menu options:

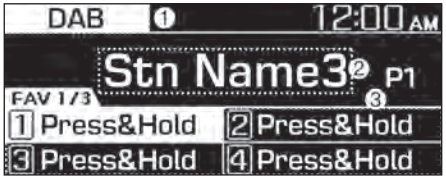
- **Traffic announcement**: Activate or deactivate traffic announcements. Announcements and programs will be received automatically if available.
- **Autostore**: Save radio stations to the preset list.
- **Scan**: The system searches for radio stations with strong radio signals and plays each option for about five seconds.
- **Sound settings**: You can change the settings related to sounds, such as location where sound will be concentrated and the output level for each range.
  - **Balance**: Select a location where sound will be concentrated in the vehicle. Select **Balance**, turn the [**TUNE**] knob to select the desired position, and then press the knob. To set sound to be centered in the vehicle, select **Centre**.
  - **Equaliser**: Adjust the output level for each sound tone mode.
  - **Speed dependent vol.**: Set the volume to be adjusted automatically according to your driving speed.

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.**

- **Mode popup**: Set to display mode selection window when the [**AUDIO**] button is pressed on the control panel.
- **Date/Time**: You can change the date and time that are shown on the system display.
  - **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.
  - **Display (Power Off)**: Set to display the clock when the system power is off.
- **Language**: You can change the display language.

DAB Mode



(1) Current radio mode

(2) Radio station information

(3) Preset list

Press the [**MENU/CLOCK**] button on the control panel to access the following menu options:

- **Traffic announcement**: Activate or deactivate traffic announcements. Announcements and programs will be received automatically if available.
- **List**: Display all available radio stations.
- **Scan**: The system searches for radio stations with strong radio signals and plays each option for about five seconds.
- **Sound settings**: You can change the settings related to sounds, such as location where sound will be concentrated and the output level for each range.
  - **Balance**: Select a location where sound will be concentrated in the vehicle. Select **Balance**, turn the [**TUNE**] knob to select the desired position, and then press the knob. To set sound to be centered in the vehicle, select **Centre**.
  - **Equaliser**: Adjust the output level for each sound tone mode.
  - **Speed dependent vol.**: Set the volume to be adjusted automatically according to your driving speed.

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.**

- **Mode popup**: Set to display mode selection window when the [**AUDIO**] button is pressed on the control panel.
- **Date/Time**: You can change the date and time that are shown on the system display.
  - **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.
  - **Display (Power Off)**: Set to display the clock when the system power is off.
- **Language**: You can change the display language.

Changing the radio mode

1. On the control panel, press the [**AUDIO**] button.
2. When the mode selection window displays, turn the [**TUNE**] knob to select the desired radio mode and then press the knob.
   - Each time you press the [MODE] button on the steering wheel, the radio mode switches to FM u AM in order.

NOTICE

When the Mode popup is not selected in [MENU/CLOCK] ▶ Mode popup, press the [AUDIO] button on the control panel to change the radio mode.

Each time you press the [AUDIO] button on the control panel, the radio mode switches to FM ▶ DAB (if equipped) ▶ AM in order.

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/CLOCK**] button on the control panel.
2. When the option selection window displays, 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**] button / [**TRACK** >] button on the control panel.

- You can also press and hold the [< **SEEK**] button / [**TRACK** >] button to search for frequencies quickly. When you release the button, a radio station with a strong signal is selected automatically.

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 favorite radio stations and listen to them by selecting them from the preset list.

Saving the current radio station

While listening to the radio, press and hold the desired number button on the control panel.

- The radio station you are listening to will be added to the selected number.
- To save the next page of the preset list, press the [**FAV**] button.

NOTICE

- **You can save up to 12 radio stations in each mode.**
- **If a station is already saved to the selected preset number, the station will be replaced by the station you are listening to.**

Using the auto save function

You can search for radio stations in your area where there is a strong signal. The results of your search can be saved to the preset list automatically.

1. From the radio screen, press the [**MENU/CLOCK**] button on the control panel.
2. When the option selection window displays, turn the [**TUNE**] knob to select Autostore, and then press the knob.

Listening to saved radio stations

FM/AM Mode

1. Confirm the preset number for the radio station you want to listen to.
   - To view the next page of the preset list, press the [**FAV**] button.
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 or smartphones.

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 [**AUDIO**] button.
3. When the mode selection window displays, turn the [**TUNE**] knob to select the desired mode and then press the knob.

NOTICE

- **To start the media player, press the [AUDIO] button on the control panel.**
- **You can also change the mode by pressing the [MODE] button repeatedly on the steering wheel.**
- **Make sure to connect or disconnect external USB devices with the system power turned off.**
- **When the Mode popup is not selected in [MENU/CLOCK] ▶ Mode popup, press the [AUDIO] button on the control panel to change the media player.**
- **Each time you press the [AUDIO] button on the control panel, the media mode switches to USB ▶ Bluetooth audio in order.**
- **Depending on vehicle models and specifications, available buttons or the appearance and layout of the USB port 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 Tone 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.**

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.
- Press the [**AUDIO**] button on the control panel to display the mode selection window, turn the [**TUNE**] knob to select USB and then press the knob.



(1) Current file number and the total number of files

(2) Playback time

(3) Information about the song currently playing

Press the [**MENU/CLOCK**] button on the control panel to access the following menu options:

- **List**: Access the file list.
- **Folder list**: Access the folder list.
- **Information**: Display information about the song currently playing.
- **Sound settings**: You can change the settings related to sounds, such as location where sound will be concentrated and the output level for each range.
  - **Balance**: Select a location where sound will be concentrated in the vehicle. Select **Balance**, turn the [**TUNE**] knob to select the desired position, and then press the knob. To set sound to be centered in the vehicle, select **Centre**.
  - **Equaliser**: Adjust the output level for each sound tone mode.
  - **Speed dependent vol.**: Set the volume to be adjusted automatically according to your driving speed.

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.**

- **Song information (Media Display)**: Select information such as Folder/File or **Artist/Title/Album** to display when playing MP3 files.
- **Mode popup**: Set to display mode selection window when the [**AUDIO**] button is pressed on the control panel.
- **Date/Time**: You can change the date and time that are shown on the system display.
  - **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.
  - **Display (Power Off)**: Set to display the clock when the system power is off.
- **Language**: You can change the display language.

Rewinding/Fast forwarding

On the control panel, press and hold the [< **SEEK**] button / [**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**] button.

- You can also push the Up 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**] button. To play the next song, press the [**TRACK** >] button on the control panel.

- If more than 2 seconds of playback have elapsed, press the [< **SEEK**] button on the control panel twice to play the previous song.
- You can also push the Up/down lever on the steering wheel.

NOTICE

Press the [MENU/CLOCK] button on the control panel to display the mode selection window, turn the [TUNE] knob to find the desired song and press the knob to play the file.

Playing repeatedly

On the control panel, press the [**1 RPT**] 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 SHFL**] 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 or mobile phone, repeat & random order features may not be supported.

Searching folders

1. On the control panel, press the [**MENU/CLOCK**] button.
2. When the option selection window displays, turn the [**TUNE**] knob to select the Folder list and then press the knob.
3. Navigate to the desired folder in the **Folder list** and then press the [**TUNE**] knob.
   - The first song in the selected folder will be played.

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.**

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.**

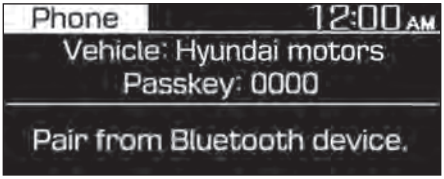
- **If Bluetooth connection is not stable, follow these steps to try again.**
  1. **Deactivate Bluetooth and reactivate it on the device. Then, reconnect the device.**
  2. **Turn the device off and on. Then, reconnect it.**
  3. **Remove the battery from the device and reinstall it. Then, turn the device on and reconnect it.**
  4. **Unregister the Bluetooth pairing on both the system and the device and then re-register and connect them.**

The Bluetooth connection is unavailable when the device's Bluetooth function is turned off. Be sure to turn on the device's Bluetooth function.

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 [**PHONE**] button, and then select **Phone settings ▶ Add new device**.
   - If you are pairing a device with your system for the first time, you can also press 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.

NOTICE

- **The screen image in this manual is an example. Check your system screen for the exact System's Bluetooth 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 3.**

- **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 [**PHONE**] button, and then select **Phone settings ▶ Paired devices**.
   - If there is no connected device, press 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.

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.**
- **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 [**PHONE**] button, and then select **Phone settings ▶ Paired devices**.
2. Turn the [**TUNE**] knob to select your currently connected device and then press the knob.
3. Press the [**1 RPT**] button to select **Yes**.

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 [**PHONE**] button, and then select **Phone settings ▶ Delete devices**.
2. Turn the [**TUNE**] knob to select the device to delete, and then press the knob.
3. Press the [**1 RPT**] button to select **Yes**.

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.

1. On the control panel, press the [**AUDIO**] button.
2. When the mode selection window displays, turn the [**TUNE**] knob to select **Bluetooth audio** and then press the knob.



(1) Information about the song currently playing

1. Press the [**MENU/CLOCK**] button on the control panel to access the following a menu option.
2. Turn the [**TUNE**] knob to select option and then press the knob.
   - **Sound settings**: You can change the settings related to sounds, such as location where sound will be concentrated and the output level for each range.
     - **Balance**: Select a location where sound will be concentrated in the vehicle. Select **Balance**, turn the [**TUNE**] knob to select the desired position, and then press the knob. To set sound to be centered in the vehicle, select **Centre**.
     - **Equaliser**: Adjust the output level for each sound tone mode.
     - **Speed dependent vol.**: Set the volume to be adjusted automatically according to your driving speed.

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.**

   - **Mode popup**: Set to display mode selection window when the [**AUDIO**] button is pressed on the control panel.
   - **Date/Time**: You can change the date and time that are shown on the system display.
     - **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.
     - **Display (Power Off)**: Set to display the clock when the system power is off.
   - **Language**: You can change the display language.

Pausing/Resuming playback

To pause playback, press the [**TUNE**] knob on the control panel. To resume playback, press the [**TUNE**] knob again.

- You can also press the Mute button on the steering wheel remote control.

Playing repeatedly

On the control panel, press the [**1 RPT**] 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 SHFL**] 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 or mobile phone, repeat & random order features may not be supported.

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 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.**
- **Moving the track up/down while playing Bluetooth audio mode may result in pop noises with some mobile phones.**
- **The Rewinding/Fast forwarding function 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. 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 the contacts list downloaded from the connected mobile phone, select **Contacts**.
3. To end the call, press the [**2 SHFL**] button on the control panel.
   - Alternatively, press the Call end button on the steering wheel.

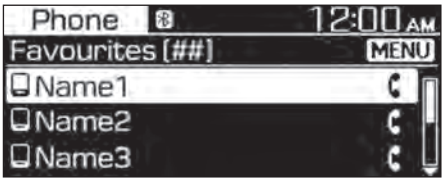
Registering the favourites list

You can more easily use Bluetooth to talk on the phone hands-free by registering phone numbers as your favourites.

1. On the Phone screen, turn the [**TUNE**] knob on the control panel to select **Favourites** and press the knob.
2. Select [**MENU/CLOCK**] ▶ **Add new favourites**.
3. Press the [**1 RPT**] button, and select the desired phone number.

Using the favourites list

1. From the Phone screen, turn the [**TUNE**] knob on the control panel to select **Favourites**, and then press the knob.
2. Turn the [**TUNE**] knob to select the desired contact, and then press the knob to make a phone call.



Press the [**MENU/CLOCK**] button on the control panel to access the following menu options:

- **Add new favourites**: Add a frequently used phone number to favourites.
- **Delete items**: Delete a selected favourites item.
- **Delete all**: Delete all 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, turn the [**TUNE**] knob on the control panel to select **Call history**, and then press the knob.
2. Turn the [**TUNE**] knob to select the desired entry, and then press the knob to make a phone call.



Press the [**MENU/CLOCK**] button on the control panel to access the following menu options:

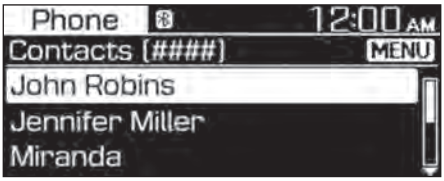
- **Download**: Download your call history.
- **All calls**: View all call records.
- **Dialled calls**: View only dialed calls.
- **Received calls**: View only received calls.
- **Missed calls**: View only missed calls.

NOTICE

- **Some mobile phones may not support the download function.**
- **The call history is accessed only after downloading the call history 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, turn the [**TUNE**] knob on the control panel to select **Contacts**, and then press the knob.
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/CLOCK**] button on the control panel to access the following a menu option:

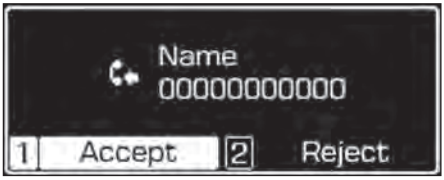
- **Download**: Download your mobile phone contacts.

NOTICE

- **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 RPT**] button on the control panel.

- Alternatively, press the Call/Answer button on the steering wheel.

To reject the call, press the [**2 SHFL**] button on the control panel.

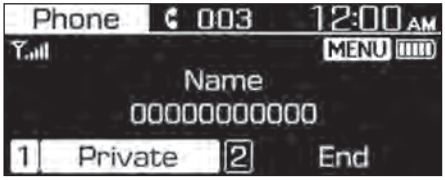
- Alternatively, press the Call end button on the steering wheel.

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 RPT**] button on the control panel.

- Alternatively, press and hold the Call/ Answer button on the steering wheel.

To end the call, press the [**2 SHFL**] button on the control panel.

- Alternatively, press the Call end button on the steering wheel.

Press the [**MENU/CLOCK**] button on the control panel to access the following a menu option:

- **Microphone Volume (Outgoing 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.**

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.

SOS Test (for Russia)

You can start the Pan-European eCall test mode by pressing the SOS TEST button.

- Stops sound and SOS TEST is displayed on screen.

NOTICE

- **For more information, refer to the "Emergency situations" in the 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.



Bluetooth

Icon	Description
	Battery level of connected Bluetooth device
	Mobile phone or 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 length of folder/file names (Based on Unicode): 40 English or Korean characters
- 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: 1,000
- Maximum number of files: 5,000

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), exFAT/NTFS

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

Other trademarks and trade names are those of their respective owners.

- 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.

DECLARATION OF CONFORMITY

CE

EU Declaration of Conformity (1)

HYUNDAI MOBIS

Product details (2)

Product (3)	DIGITAL CAR AUDIO SYSTEM
Model (4)	ACBC0SWEP, ACB10SWEP, ACB10SWEG, ACB11SWEP, ACB11SWEG, ACBC0SWEG, ACB10SWTP, ACB12SWEP, ACB12SWEG, ACB13SWEP, ACB13SWEG, ACBC1SWEP, ACBC1SWEG

We hereby declare, that the product above is in compliance with the essential requirements of the Directive 2014/53/EU by application of (5)

Applied Standards (6)

Article (7) **3.2** Radio (8)	EN 300 328 V2.2.2 (2019-07) EN 303 345-1 V1.1.1 (2019-06) EN 303 345-2 V1.1.1 (2020-02) DRAFT EN 303 345-3 V1.1.0 (2019-11) DRAFT EN 303 345-4 V1.1.0 (2019-11)
Article (7) **3.1b** EMC (9)	EN 301 489-1 V2.2.3 (2019-11) EN 301 489-17 V3.1.1 (2017-02) EN 55032:2015 EN 55035:2017
Article (7) **3.1a** Safety (10), Health (11)	EN 60065:2014, EN 62311:2008

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Takomotie 8 FI-00380

Helsinki, Finland

Notified Body Identification (17) 0598

Reference (18) RED-1970

Signed By (15) 19/05/2020

This declaration of conformity is issued under the sole responsibility of the manufacturer. (16)

최승훈

Seunghoon Choe

Representative

Hyundai MOBIS Co., Ltd.

Additional information (19)

SW: 1.0, HW: 1.0

EAC

Category	Specification
Model	ACB10SWEP, ACB10SWEG, ACB11SWEP, ACB11SWEG, ACBC0SWEP, ACBC0SWEG, ACB10SWTP, ACB12SWEP, ACB12SWEG, ACB13SWEP, ACB13SWEG, ACBC1SWEP, ACBC1SWEG
Manufacturer	**HYUNDAI MOBIS Co., Ltd.** 203, Teheran-ro, Gangnam-gu, Seoul, 06141, Korea
Date of Manufacture	Check product for dates

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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 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 belts.
- Check the gauges and indicators in the instrument panel and the messages on the instrument display when the ignition switch is in the ON position.
- Check that any items you are carrying are stored properly or fastened down securely.

WARNING

To reduce the risk of SERIOUS INJURY or DEATH, take the following precautions:

- **ALWAYS wear your seat belt. All passengers must be properly belted whenever the vehicle is moving. For more details, refer to “Seat Belts” in chapter 3.**
- **Always drive defensively. Assume other drivers or pedestrians may be careless and make mistakes.**
- **Stay focused on the task of driving. Driver distraction can cause accidents.**
- **Leave plenty of space between you and the vehicle in front of you.**

WARNING

NEVER drink or take drugs and drive.

Drinking or taking drugs and driving is dangerous and may result in an accident and SERIOUS INJURY or DEATH.

Drunk driving is the number one contributor to the highway death toll each year. Even a small amount of alcohol will affect your reflexes, perceptions and judgment. Just one drink can reduce your ability to respond to changing conditions and emergencies and your reaction time gets worse with each additional drink.

Driving while under the influence of drugs is as dangerous or more dangerous than driving under the influence of alcohol.

You are much more likely to have a serious accident if you drink or take drugs and drive. If you are drinking or taking drugs, don’t drive. Do not ride with a driver who has been drinking or taking drugs. Choose a designated driver or call a taxi.

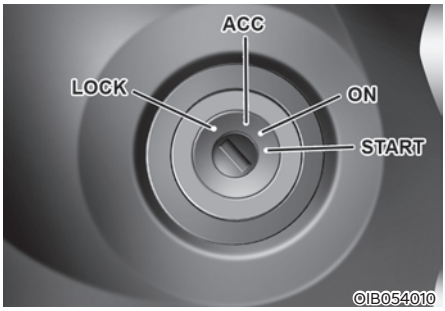
IGNITION SWITCH

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)



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 the 1st gear when the vehicle is parked on an uphill and in R(Reverse) on a downhill (for manual transmission vehicle), or P (Park, for automatic transmission/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	Notice
LOCK	The ignition key can be removed in the LOCK position.	The steering wheel locks to protect the vehicle from theft. (if equipped)
ACC	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 tension.
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 and accelerator pedals.**
- **Do not start the vehicle with the accelerator pedal depressed. The vehicle can move and lead to an accident.**
- **Wait until the engine RPM is normal. The vehicle may suddenly move if the brake pedal is released when the RPM is high.**

Vehicle with Manual transmission:

1. Make sure the parking brake is applied.
2. Make sure the shift lever is in N (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 Automatic transmission/ Dual clutch transmission:

1. Make sure the parking brake is applied.
2. Make sure the shift lever is in P (Park).
3. Depress the brake pedal.
4. Turn the ignition switch to the START position. Hold the key (maximum of 10 seconds) until the engine starts and release it.

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.**

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. (if equipped)

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 3 seconds).

If the vehicle is still moving, you can restart the engine without depressing the brake pedal (Automatic transmission/Dual clutch transmission)/brake pedal and clutch pedal (Manual transmission) 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 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

Button Position	Action	Notice
OFF	• 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)	If the steering wheel is not locked properly when you open the driver's door, the warning chime will sound.
ACC	• Press the Engine Start/Stop button when the button is in the OFF position without depressing the clutch pedal. • Electrical accessories are usable. • The steering wheel unlocks.	• 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.
ON	• Press the Engine Start/Stop button while it is in the ACC position without depressing the clutch pedal. • The warning lights can be checked before the engine is started.	Do not leave the Engine Start/Stop button in the ON position when the engine is not running to prevent the battery from discharging.
START	To start the engine, depress the clutch and brake pedals and press the Engine Start/Stop button with the shift lever in neutral.	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**

Engine Stop/Start button positions
- Vehicle with automatic transmission / dual clutch transmission

Button Position	Action	Notice
OFF	• 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)	If the steering wheel is not locked properly when you open the driver's door, the warning chime will sound.
ACC	• 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.	• 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.
ON	• 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.	Do not leave the Engine Start/Stop button in the ON position when the engine is not running to prevent the battery from discharging.
START	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.	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**

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 and accelerator pedals.**
- **Do not start the vehicle with the accelerator pedal depressed.**

  The vehicle can move which can lead to an accident.
- **Wait until the engine RPM is normal. The vehicle may suddenly move if the brake pedal is released when the RPM is high.**

Information

- **The engine will start by pressing the Engine Start/Stop button, only when the smart key is in the vehicle.**
- **Even if the smart key is in the vehicle, if it is far away from the driver, the engine may not start.**
- **When the Engine Start/Stop button is in the ACC or ON position, if any door is open, the system checks for the smart key. If the smart key is not in the vehicle, the "" indicator will blink and the warning "Key not in vehicle" will come on, and if all doors are closed, the chime will also sound for about 5 seconds. Keep the smart key in the vehicle when using the ACC position or if the vehicle engine is ON.**

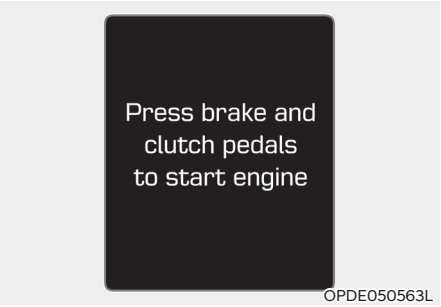
Vehicle with Manual transmission:

1. Always carry the smart key with you.
2. Make sure the parking brake is applied.
3. Make sure the shift lever is in N (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, and it will be displayed on the cluster as in the following pop-up.



OPDE050563L

When the shift lever is not placed in N (Neutral), the following popup will be displayed on the cluster.



OPDE050564L

Vehicle with Automatic transmission/ 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.**

NOTICE

To prevent damage to the vehicle:

- **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 brake switch 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 pedal before starting the engine.

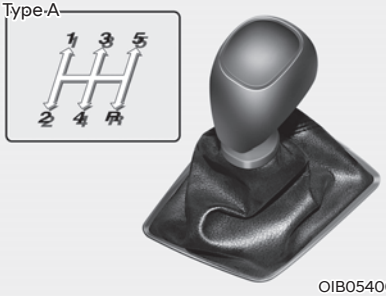

OAC3069051TU

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.

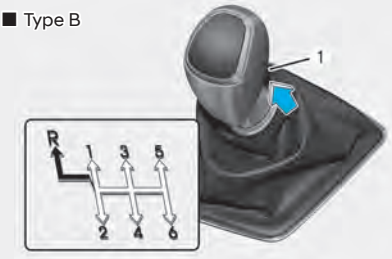
MANUAL TRANSMISSION (IF EQUIPPED)

■ Type A



OIB054009

■ Type B



The shift lever can be moved with pressing the button (1).

The button (1) must be pressed while moving the shift lever.

OIB054001

■ Type C



The shift lever can be moved with pressing the button (1).

The button (1) must be pressed while moving the shift lever.

OPDEN057107

Manual transmission operation

The manual transmission has 5 (or 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 the 1st gear when the vehicle is parked on an 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 the 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 the first gear or R (Reverse) gear.

Information

During cold weather, shifting may be difficult until the transmission lubricant has warmed up.

Using the clutch (if equipped)

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

  To start your vehicle, slowly release the clutch pedal and depress the accelerator.

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.**
- **Depress the clutch pedal all the way and be careful not to depress the pedal again before returning to the upright position after you release the pedal. If you depress the pedal before returning to the original position repeatedly, it may cause the clutch system failure.**

Downshifting

Downshift when you must slow down in heavy traffic or drive up a steep hill to prevent engine load.

Also, downshifting reduces the chance of stalling and can accelerate when you need to increase your speed again.

When the vehicle is going downhill, downshifting helps maintain safe speed by providing brake power from the engine and enables less wear on the brakes.

NOTICE

To prevent damage to the engine, clutch and transmission:

- **When downshifting from the 5th gear to the 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 gear 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 the engine brake (shifting from a higher gear to lower gear) rapidly on slippery roads. The vehicle may slip causing an accident.

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.**

Information - Kickdown Mechanism (if equipped)

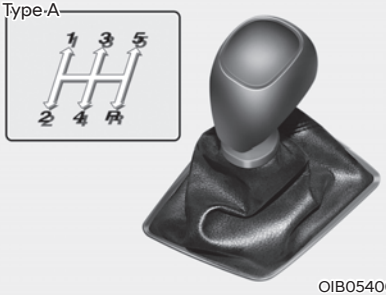
Use the kickdown mechanism for maximum acceleration. Depress the accelerator pedal beyond the pressure point. The automatic transmission will shift to a lower gear depending on the engine speed.

INTELLIGENT MANUAL TRANSMISSION (IMT)

Intelligent Manual Transmission (IMT) system uses E-Clutch (Electronic Clutch) and SSC (Start Stop Coasting) technology. When the vehicle is in coasting driving, automatically cuts off the engine power in order to reduce fuel consumption.

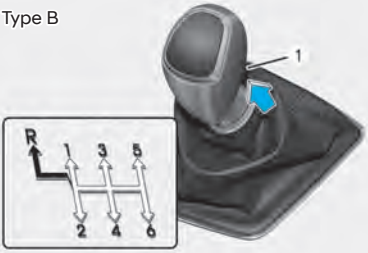
Intelligent Manual Transmission (IMT) operation

■ Type A



OIB054009

■ Type B



The shift lever can be moved with pressing the button (1).

The button (1) must be pressed while moving the shift lever.

OIB054001

■ Type C



The shift lever can be moved with pressing the button (1).

The button (1) must be pressed while moving the shift lever.

OPDEN057107

The Intelligent Manual Transmission (IMT) 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 the 1st gear 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 the 1st gear 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 the 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

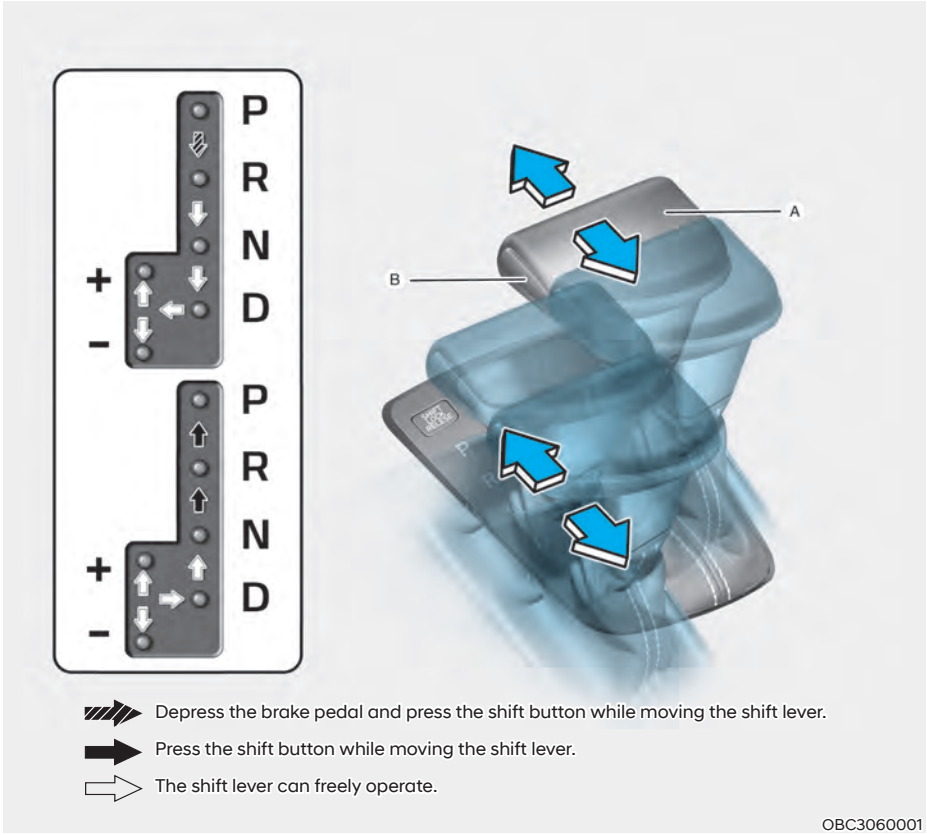
- Never take the vehicle out of gear and coast down a hill. This is extremely hazardous. Always leave the vehicle in gear.
- Don't "ride" the brakes. This can cause them to overheat and malfunction. Instead, when you are driving down a long hill, shift to a lower gear. When you do this, the engine braking 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.**

AUTOMATIC TRANSMISSION (IF EQUIPPED)



Automatic transmission operation

The automatic transmission has six forward speeds and one reverse speed.
The individual speeds are selected automatically in the D (Drive) position.

WARNING

To reduce the risk of serious injury or death:

- **ALWAYS check the surrounding areas near your vehicle for people, especially children, before shifting a vehicle into D (Drive) or R (Reverse).**
- **Before leaving the driver's seat, always make sure the shift lever is in the P (Park) position, 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 the engine brake (shifting from a high gear to lower gear) rapidly on slippery roads. The vehicle may slip causing an accident.**

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.

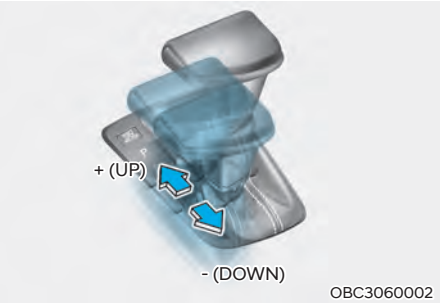
WARNING

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 driving position. The transmission will automatically shift through a 6-gear sequence, providing the best fuel economy and power.

For extra power when passing another vehicle or driving uphill, depress the accelerator fully. The transmission will automatically downshift to the next lower gear (or gears, as appropriate).



Manual shift mode

Whether the vehicle is stationary or in motion, manual shift mode is selected by pushing the shift lever from the D (Drive) position into the manual gate. To return to D (Drive) range operation, push the shift lever back into the main gate.

In manual shift mode, moving the shift lever backwards and forwards will allow you to select the desired range of gears for the current driving conditions.

+ (Up): Push the lever forward once to shift up one gear.

- (Down): Pull the lever backwards once to shift down one gear.

Information

- **Only the six forward gears can be selected 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, the 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.**
- **When driving on a slippery road, push the shift lever forward into the + (Up) position. This causes the transmission to shift into the 2nd gear which is better for smooth driving on a slippery road. Push the shift lever to the - (Down) side to shift back to the 1st gear.**

Shift-lock system

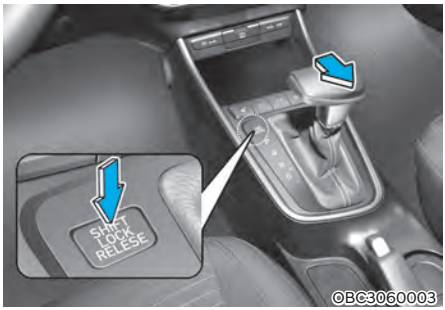
For your safety, the automatic transmission has a shift-lock system which prevents shifting the transmission from P (Park) into R (Reverse) unless the brake pedal is depressed.

To shift the transmission from P (Park) into R (Reverse):

1. Depress and hold the brake pedal.
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. Press the shift-lock release button.
4. Press and hold the lock release button on the shift lever.
5. Move the shift lever.

If you need to use the shift-lock release, we recommend that the system be inspected by an authorized HYUNDAI dealer immediately.

Ignition key interlock system (if equipped)

The ignition key cannot be removed unless the shift lever is in the P (Park) position.

Parking

Always come to a complete stop and continue to depress the brake pedal. Move the shift lever into the P (Park) position, apply the parking brake, and place the ignition switch in the LOCK/OFF position. Take the Key with you when exiting the vehicle.

WARNING

When you stay in the vehicle with the engine running, be careful not to depress the accelerator pedal for a long period of time. The engine or exhaust system may overheat and start a fire.

The exhaust gas and the exhaust system are very hot. Keep away from the exhaust system components.

Do not stop or park over flammable materials, such as dry grass, paper or leaves. They may ignite and cause a fire.

Good driving practices

- Never move the shift lever from P (Park) or N (Neutral) to any other position with the accelerator pedal depressed.
- Never move the shift lever into P (Park) when the vehicle is in motion.
- Be sure the vehicle is completely stopped before you attempt to shift into R (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

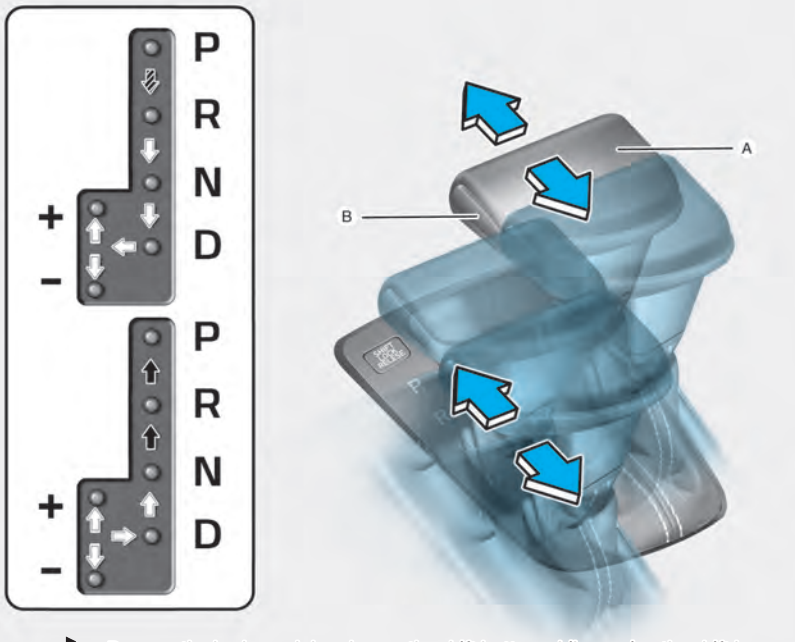
To reduce the risk of SERIOUS INJURY or DEATH:

- **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 automatic transmission will shift to a lower gear depending on the engine speed.

DUAL CLUTCH TRANSMISSION (IF EQUIPPED)



Depress the brake pedal and press the shift button while moving the shift lever.

Press the shift button while moving the shift lever.

The shift lever can freely operate.

OBC3060001

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 (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.



OBC3070112TU

Steep grade

Driving up hills or on steep grades:

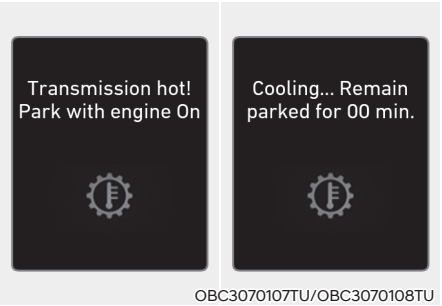
- To hold the vehicle on an incline, use the foot brake or the parking brake.
- When in stop-and-go traffic on an incline, allow a gap to form ahead of you before moving the vehicle forward. Then hold the vehicle on the incline with the foot brake.
- If the vehicle is held or creeping forward on an incline 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.



OBC3070109TU

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, frequent shifts, or jerkiness. To return to the normal driving condition, stop the vehicle and apply the foot brake or shift into P (Park). Then allow the transmission to cool for a few minutes with engine on, before driving off.
- When possible, drive the vehicle smoothly.



OBC3070107TU/OBC3070108TU

Transmission overheated

- If the vehicle continues to be driven and the clutch temperatures reach the maximum temperature limit, the 'Trans 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 '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.

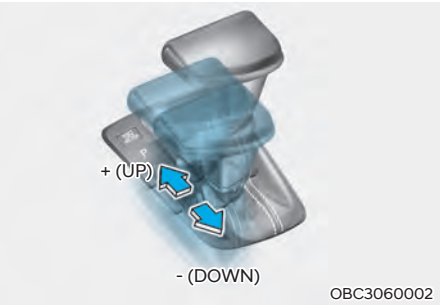
Use N (Neutral) if you need to restart a stalled engine, or if it is necessary to stop with the engine ON. Shift into P (Park) if you need to leave your vehicle for any reason.

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).



Manual shift mode

Whether the vehicle is stationary or in motion, manual shift mode is selected by pushing the shift lever from the D (Drive) position into the manual gate. To return to D (Drive) range operation, push the shift lever back into the main gate.

In manual shift mode, moving the shift lever backwards and forwards will allow you to 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.

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, the 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 10km/h.

Pull the [+] or [-] paddle shifter once to shift up or down one gear and the system changes from automatic mode to manual mode.

When the vehicle speed is lower than 10 km/h, if you depress the accelerator pedal for more than 6 seconds or if you move the shift lever from D (Drive) to manual shift mode and move it from manual shift mode to D (Drive) again, the system changes from manual mode to automatic mode.

With the shift lever in the manual shift mode

Pull the [+] or [-] paddle shifter once to shift up or down one gear.

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. Press the shift-lock release button.
4. Press and hold the lock release button on the shift lever.
5. Move the shift lever.

If you need to use the shift-lock release, we recommend that the system be inspected by an authorized HYUNDAI dealer immediately.

Ignition key interlock system (if equipped)

The ignition key cannot be removed unless the shift lever is in the P (Park) position.

Parking

Always come to a complete stop and continue to depress the brake pedal. Move the shift lever into the P (Park) position, apply the parking brake, and place the ignition switch in the LOCK/OFF position. Take the Key with you when exiting the vehicle.

WARNING

When you stay in the vehicle with the engine running, be careful not to depress the accelerator pedal for a long period of time. The engine or exhaust system may overheat and start a fire.

The exhaust gas and the exhaust system are very hot. Keep away from the exhaust system components.

Do not stop or park over flammable materials, such as dry grass, paper or leaves. They may ignite and cause a fire.

Good driving practices

- Never move the shift lever from P (Park) or N (Neutral) to any other position with the accelerator pedal depressed.
- Never move the shift lever into P (Park) when the vehicle is in motion.

  Be sure the vehicle is completely stopped before you attempt to shift into R (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 fuel 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 automatic transmission will shift to a lower gear depending on the engine speed.

BRAKING SYSTEM

Power brakes

Your vehicle has power-assisted brakes that adjust automatically through normal usage.

If the 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 down a long or steep hill, downshift to a lower gear in order to control your speed without using the brake pedal excessively. Applying the brakes continuously will cause the brakes to overheat and could result in a temporary loss of braking performance.**
- **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.

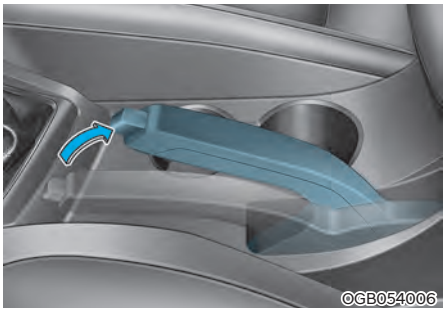
Information

Always replace brake pads as complete front or rear axle sets.

Rear drum brakes

Your rear drum brakes do not have wear indicators. Therefore, have the rear brake linings inspected if you hear a rear brake rubbing noise. Also have your rear brakes inspected each time you change or rotate your tires and when you have the front brakes replaced.

Parking brake



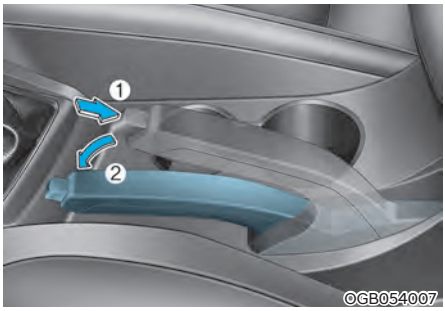
Always set the parking brake before leaving the vehicle, to apply:

Firmly depress the brake pedal.

Pull up the parking brake lever as far as possible.

WARNING

To reduce the risk of SERIOUS INJURY or DEATH, do not operate the parking brake 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 is in the 1st gear when the vehicle is parked on an uphill and in R (Reverse) on a downhill (for manual transmission vehicle), or P (Park, for automatic transmission/dual clutch transmission vehicle) position, then apply the parking brake, and place the ignition switch in the LOCK/OFF position.

Parking brake warning light



Check the Parking Brake Warning Light by placing the ignition switch to the ON position (do not start the engine).

This light will illuminate 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.

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.**

The safety features of an ABS or ESC equipped vehicle should not be tested by high speed driving or cornering. This could endanger the safety of yourself or others.

ABS is an electronic braking system that helps prevent a braking skid. ABS allows the driver to steer and brake at the same time.

Using ABS

To obtain the maximum benefit from your ABS in an emergency situation, do not attempt to modulate your brake pressure and do not try to pump your brakes. Depress your brake pedal as hard as possible.

When you apply your brakes under conditions which may lock the wheels, you may hear sounds from the brakes, or feel a corresponding sensation in the brake pedal. This is normal and it means your ABS is active.

ABS does not reduce the time or distance it takes to stop the vehicle.

Always maintain a safe distance from the vehicle in front of you.

ABS will not prevent a skid that results from sudden changes in direction, such as trying to take a corner too fast or making a sudden lane change. Always drive at a safe speed for the road and weather conditions.

ABS cannot prevent a loss of stability. Always steer moderately when braking hard. Severe or sharp steering wheel movement can still cause your vehicle to veer into oncoming traffic or off the road.

On loose or uneven road surfaces, operation of the anti-lock brake system may result in a longer stopping distance than for vehicles equipped with a conventional brake system.

The ABS warning light (ABS) will stay on for several seconds after the ignition switch is in the ON position. During that time, the ABS will go through self-diagnosis and the light will go off if everything is normal. If the light stays on, you may have a problem with your ABS. We recommend that you contact an authorized HYUNDAI dealer as soon as possible.

WARNING

If the ABS warning light (ABS) is on and stays on, you may have a problem with the ABS. Your power brakes will work normally. To reduce the risk of serious injury or death, 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 (ABS) 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 (ABS) may turn on at the same time. This happens because of the low battery voltage. It does not mean your ABS is malfunctioning. Have the battery recharged before driving the vehicle.

Electronic Stability Control (ESC)



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. After both lights go off, the ESC is enabled.

When operating



When the ESC is in operation, the ESC indicator light blinks:

- When you apply your brakes under conditions which may lock the wheels, you may hear sounds from the brakes, or feel a corresponding sensation in the brake pedal. This is normal and it means your ESC is active.
- When the ESC activates, the 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 chapter 7** (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/or message 'Traction control disabled' will illuminate and a warning chime sounds. 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/or message 'Traction control and ESC 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)



OTD059012

■ ESC OFF indicator light (comes on)



OTD059013

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)

The Vehicle Stability Management (VSM) is a function of the Electronic Stability Control (ESC) system. It helps ensure the vehicle stays stable when accelerating or braking suddenly on wet, slippery and rough roads where traction over the four tires can suddenly become uneven.

WARNING

Take the following precautions when using the Vehicle Stability Management (VSM):

- **ALWAYS check the speed and the distance to the vehicle ahead. The VSM is not a substitute for safe driving practices.**
- **Never drive too fast for the road conditions. The VSM system will not prevent accidents. Excessive speed in bad weather, slippery and uneven roads can result in severe accidents.**

VSM operation

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 on 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 ESC system to malfunction. Before replacing tires, make sure all four tires and wheels are the same size. Never drive the vehicle with different sized tires and wheels installed.

Hill-Start Assist Control (HAC)

The Hill-Start Assist Control (HAC) helps prevent the vehicle from rolling backwards when starting a vehicle from a stop on a hill. The system operates the brakes automatically for approximately 2 seconds and releases the brake after 2 seconds or when the accelerator pedal is depressed.

WARNING

Always be ready to depress the accelerator pedal when starting off on an incline. The HAC activates only for approximately 2 seconds.

Information

- **The HAC does not operate when the shift lever is in 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)

The Emergency Stop Signal system alerts the driver behind by blinking the stop light when the vehicle is braked rapidly and severely.

The system is activated if the following conditions are satisfied:

- The vehicle suddenly stops

  (The deceleration exceeds 7 m/s^2 or the ABS is activated)
- The driving speed exceeds 55km/h (34 mph)
- The hazard lights are deactivated

The hazard lights automatically are blinking after blinking the stop lights if the following conditions are satisfied:

- The driving speed is under 40 km/h (25 mph)
- The sudden braking situation is over (The deceleration is under 4 m/s^2 or the ABS is deactivated)

The hazard warning flasher turns off:

- When the vehicle is drives at a low speed for a certain period of time.

  Driver can turn it off manually by pressing the hazard warning flasher switch.

CAUTION

The Emergency Stop Signal (ESS) system will not work if the hazard warning flasher is already on.

Multi-Collision Brake (MCB)

Multi-Collision Brake controls the brake automatically in the event of an accident where the air bag deploys to reduce the risk of additional accidents that may occur.

System operation

- From the time the air bag deploys, Multi-Collision Brake monitors the depression intensity of the brake pedal and accelerator pedal for a short period. The system operates when the following conditions are met:
  - The vehicle speed is under 180 km/h (112 mph) at the time of collision.
  - The brake pedal and accelerator pedal are hardly depressed.
- When the driver steps on the brake pedal over a certain level while Multi-Collision Brake is active, the braking power takes priority over automatic braking by Multi-Collision Brake system. However, if the driver takes his/her foot off the brake pedal, automatic braking by Multi-Collision Brake system will maintain automatic braking.

System off

Multi-Collision Brake is canceled in the following situations:

- The accelerator pedal is depressed over a certain level.
- The vehicle stops.
- There is malfunction of ESC (Electronic Stability Control) or system cannot operate normally.
- Ten seconds have passed since the brake has been controlled automatically by Multi-Collision Brake system.

WARNING

- **Multi-Collision Brake decreases the vehicle speed after a collision, but it does not prevent the second collision. You may drive away from the collision spot to avoid other dangerous situations by depressing the accelerator pedal.**
- **After the vehicle is stopped by Multi-Collision Brake, the system stops controlling the brakes. Depending on the situation, the driver should depress the brake or the accelerator pedal to prevent further accidents.**

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 1st gear (for Manual transmission vehicle) or N (Neutral) position (for Automatic transmission/Dual clutch transmission vehicle), 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. If the braking action does not return to normal, stop as soon as it is safe to do so and we recommend that you call 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.

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

Prerequisite for activation

The ISG system operates in the following situations.

- 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 incline is gradual
- The steering wheel is turned less than 180 degrees and then the vehicle stops

Deactivating the ISG

■ Type A



■ Type B



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.

Automatic 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 the 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.**

Automatic 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**

Automatic Transmission/Dual Clutch Transmission

- Release the brake pedal.

The engine will start and the green AUTO STOP indicator (Ⓐ) 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.**

Automatic 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
- 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

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 ((Ⓐ)) 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.



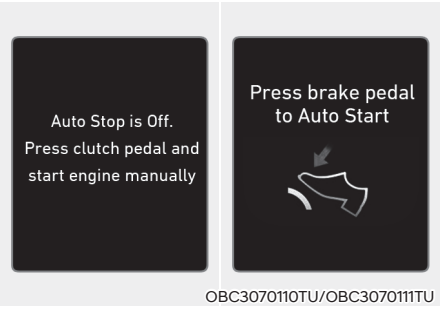
The system may require the engine to manually restart when the light on the ISG OFF button will illuminate and your vehicle is equipped with a supervision cluster, a warning message comes on continuously.

■ Type A



■ Type B





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.

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, except MHEV)



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ISG malfunction

The system may not operate when:



OBC3060009

The ISG related sensors or system error occurs.

The yellow AUTO STOP indicator (Ⓐ) 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.

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 'Coasting!' 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



The drive mode may be selected according to the driver's preference or road condition.

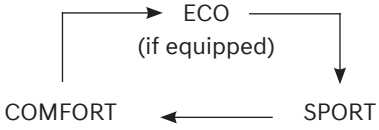
The system resets to be in the COMFORT mode, when the engine is restarted.

When the engine is restarted, Drive Mode is set to ECO by default. (for 48 MHEV)

Information

If there is a problem with the instrument cluster, the drive mode will be in COMFORT mode and may not change to SPORT mode.

The mode changes, as below, whenever the DRIVE MODE button is pressed.



When COMFORT mode is selected, it is not displayed on the instrument cluster.

ECO mode: ECO mode helps improve fuel efficiency for eco-friendly driving.

COMFORT mode: COMFORT mode provides smooth driving and comfortable riding.

SPORT mode: SPORT mode provides sporty but firm riding

NOTICE

Start Stop Coasting (SSC) is activated when Drive Mode is ECO. (for 48 MHEV)

The driving mode will be set to COMFORT or ECO mode when the engine is restarted.

- If it is in COMFORT/SPORT mode, COMFORT mode will be set, when the engine is restarted.
- If it is in ECO mode, ECO mode will be set when the engine is restarted. When the ignition is turned on, Drive Mode is set to ECO by default. (for 48 MHEV)

ECO mode (if equipped)



When the Drive Mode is set to the 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 the ECO mode, when the engine is turned OFF and restarted, the Drive Mode setting will change to the COMFORT mode.
- If the vehicle is equipped with the intelligent manual transmission, whenever the engine is restarted, the Drive Mode will change to the ECO mode.

Information

Fuel efficiency depends on the driver's driving habit and road condition.

When ECO mode is activated:

- The acceleration response may be slightly reduced as the accelerator pedal is depressed moderately.
- The air conditioner performance may be limited.
- The shift pattern of the automatic transmission may change.
- The engine noise may get louder.

The above situations are normal conditions when the ECO mode is activated, to improve fuel efficiency.

Limitation of ECO mode operation:

If the following conditions occur while the ECO mode is operating, the system operation is limited even though there is no change in the ECO indicator.

- When driving the vehicle with the Dual clutch transmission/Intelligent manual transmission gear shift lever in sport mode, the system will be limited according to the shift location.

NOTICE

Start Stop Coasting (SSC) is activated when Drive Mode is ECO. (for 48 MHEV)

SPORT mode



The SPORT mode manages the driving dynamics by automatically adjusting the steering effort, the engine and transmission control logic for enhanced driving performance.

- When the 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 the COMFORT mode. If the SPORT mode is desired, re-select the SPORT mode from the DRIVE MODE button.
- If the vehicle is equipped with intelligent manual transmission, whenever the engine is restarted, the Drive Mode will change to the ECO mode.
- When the ignition is turned on, Drive Mode is set to the ECO mode by default. (for 48 MHEV)
- When the SPORT mode is activated:
  - The engine RPM will tend to remain raised over a certain length of time even after releasing the accelerator
  - Upshifts are delayed when accelerating

Information

In the SPORT mode, the fuel efficiency may decrease.

SPORT+ mode



SPORT+ mode manages the driving dynamics by automatically adjusting the steering effort, the engine and transmission control logic for enhanced driver performance.

- When SPORT+ mode is selected by using the DRIVE MODE switch, the SPORT+ indicator will illuminate.
- Whenever the engine is restarted, the Drive Mode will revert back to NORMAL mode. If SPORT+ mode is desired, re-select SPORT+ mode from the DRIVE MODE switch.
- When SPORT+ mode is activated:
- The engine rpm will tend to remain raised over a certain length of time even after releasing the accelerator
- Upshifts are delayed when accelerating

Information

In SPORT+ mode, the fuel efficiency may decrease.

SMART mode



SMART mode selects the proper driving mode among ECO, COMFORT, and SPORT by judging the driver's driving habits (i.e. Economic or Aggressive (Sportive)) from the brake pedal depression or the steering wheel operation.

- Toggle the DRIVE MODE button to select SMART mode. When SMART mode is selected, the indicator illuminates on the instrument cluster.
- SMART mode automatically controls the vehicle driving, such as gear shifting patterns and engine torque, in accordance with the driver's driving habits.

Information

- **When you mildly drive the vehicle in SMART mode, the driving mode changes to ECO mode to improve fuel efficiency. However, the actual fuel efficiency may differ in accordance with your driving situations (i.e. upward/downward slope, vehicle deceleration/acceleration).**
- **When you dynamically drive the vehicle in SMART mode by abruptly decelerating or sharply turning the driving mode changes to SPORT mode. However, it may adversely affect fuel economy.**

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 spin.
- Put sand, rock salt, tire chains or other non-slip materials under the wheels to provide additional traction while the vehicle becomes stuck in ice, snow, or mud.

WARNING

Downshifting with an Automatic transmission, while driving on slippery surfaces can cause an accident. The sudden change in tire speed could cause the tires to skid. Be careful when downshifting on slippery surfaces.

Rocking the vehicle

If it is necessary to rock the vehicle to free it from snow, sand, or mud, first turn the steering wheel right and left to clear the area around your front wheels. Then, shift back and forth between the 1st gear and R (Reverse, for manual transmission vehicle) or R (Reverse) and a forward gear (for Automatic transmission vehicle/ Dual clutch transmission vehicle).

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 damages. 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.

WINTER DRIVING

The severe weather conditions of winter quickly wear out tires and cause other problems. To minimize winter driving problems, you should take the following suggestions:

Snow or icy conditions

You need to keep sufficient distance between your vehicle and the vehicle in front of you.

Apply the brakes gently. Speeding, rapid acceleration, sudden brake applications, and sharp turns are potentially very hazardous practices. During deceleration, use engine braking to the fullest extent. Sudden brake applications on snowy or icy roads may cause the vehicle to skid.

To drive your vehicle in deep snow, it may be necessary to use snow tires or to install tire chains on your tires.

Always carry emergency equipment. Some of the items you may want to carry include tire chains, tow straps or chains, a flashlight, emergency flares, sand, a shovel, jumper cables, a window scraper, gloves, ground cloth, coveralls, a blanket, etc.

Snow tires

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 chain. If tire chains must be used, use genuine HYUNDAI parts and install the tire chain after reviewing the instructions provided with the tire chains. Damage to your vehicle caused by improper tire chain use is not covered by your vehicle manufacturer's warranty.

NOTICE

If your vehicle has 215/45R17 size tires do not use tire chain; they can damage your vehicle (wheel, suspension and body).

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.** The battery charging level can be checked by an authorized HYUNDAI dealer or in a service station.

Change to "winter weight" oil if necessary

In some regions during winter, it is recommended to use the "winter weight" oil with lower viscosity. For further information, refer to the chapter 2. When you are not sure about a type of winter weight oil, consult an authorized HYUNDAI dealer.

Check spark plugs and ignition system

Inspect the spark plugs, as specified in the chapter 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 N (for Automatic Transmission/Dual clutch Transmission) or in the 1st gear or reverse gear (for Manual Transmission). 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 check with your country's Department of Motor Vehicles to determine legal requirements. Since laws vary the requirements for towing trailers, cars, or other types of vehicles or apparatus may differ. 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 and 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.**

Information

- **The technically permissible maximum load on the rear axle(s) may be exceeded by not more than 15 % and the technically permissible maximum laden mass of the vehicle may be exceeded by not more than 10 % or 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)**

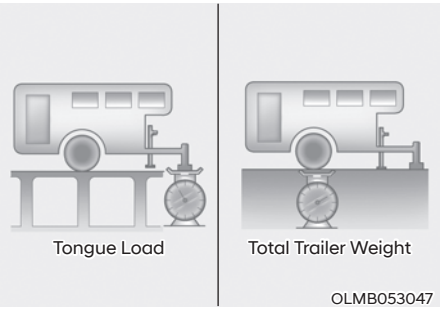
❊ **N1: commercial vehicle (3.5 tons or under)**

If you decide to pull a trailer?

Here are some important points if you decide to pull a trailer:

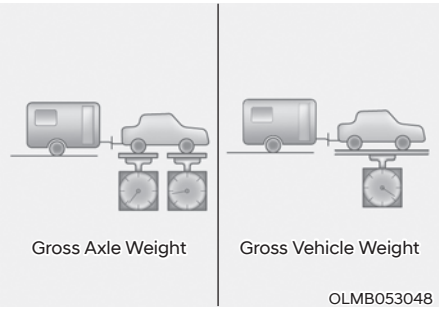
- Consider using a sway control. You can ask a trailer hitch dealer about sway control.
- Do not do any towing with your vehicle during its first 2,000 km (1,200 miles) in order to allow the engine to properly break in. Failure to heed this caution may result in serious engine or transmission damages.
- When towing a trailer, be sure to 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 grade, 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.**

Reference weight and distance when trailer towing a trailer

Item \ Engine		Smartstream G 1.0 T-GDi/ Smartstream G1.0 T-GDi (48V) MHEV		Smartstream G 1.2	Gasoline 1.4	
		6 M/T	7 DCT	5 M/T	6 M/T	6 A/T
Maximum trailer weight kg (lbs.)	With brake System	1,110 (2,447)	1,110 (2,447)	910 (2,006)	1,000 (2,205)	800 (1,764)
	Without brake System	450 (992)	450 (992)	450 (992)	450 (992)	450 (992)
Maximum permissible static vertical load on the coupling device kg (lbs.)		75 (165)				
Recommended distance from rear wheel center to coupling point mm (inch)		850 (33.46)				

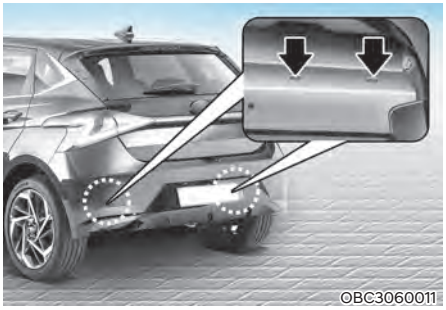
M/T: Manual transmission

A/T: Automatic transmission

DCT: Dual clutch transmission

Trailer towing equipment

Hitches



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.
- 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. Cross the safety chains under the tongue of the trailer so that the tongue will not drop to the road if it becomes separated from the hitch. 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 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 tap into 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 have the system checked by an authorized HYUNDAI dealer as soon as possible.

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 an 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.**
- **You must decide your vehicle speed according to the trailer weight and uphill grade.**

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 downhill 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 the 1st gear when the vehicle is parked on an uphill grade and in R (Reverse) on a downhill (for Manual transmission vehicle).
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.

Ready to leave after parking on a hill

1. With the shift lever to 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.**
- **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

Driving Safety
- Forward Collision–Avoidance Assist (FCA) (Front view camera only) 7-2
- Forward Collision–Avoidance Assist (FCA) (Sensor fusion) 7-15
- Lane Keeping Assist (LKA) 7-30
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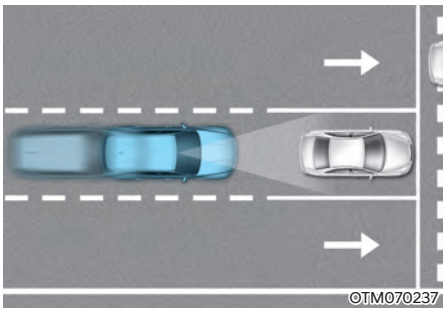
Driving Convenience
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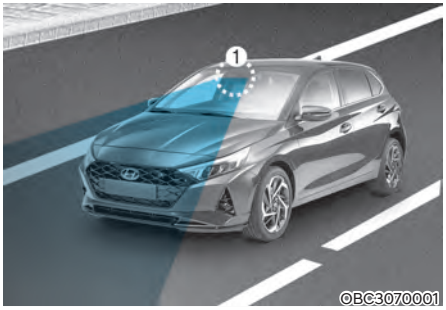
FORWARD COLLISION–AVOIDANCE ASSIST (FCA) (FRONT VIEW CAMERA ONLY) (IF EQUIPPED)

Basic function



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



[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 function from functioning properly.**

Forward Collision-Avoidance Assist settings

Setting features



OTM070090N

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 and steering wheel vibration (if equipped) 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 and steering wheel vibration (if equipped) 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 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.

Steering wheel vibration (if equipped) can be turned on or off. Select or deselect 'Driver Assistance → Haptic Warning' from the Settings menu.

Information

Forward Collision-Avoidance Assist will turn off when ESC is turned off by pressing and holding the ESC OFF button. The warning light will illuminate on the 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.

■ Type A



OTM070141L

■ Type B



ONX4E070090

Warning Volume

With the engine on, select ‘Driver Assistance → Warning Volume’ from the Settings menu to change the Warning Volume to ‘High’, ‘Medium’, ‘Low’ or ‘Off (if steering wheel vibration function equipped)’ for Forward Collision-Avoidance Assist.

However, even if ‘Off’ is selected, the function's Warning Volume 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.

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 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 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'.



OBC3070002

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 and the steering wheel will vibrate. (if equipped)
- 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 10~80 km/h (6~50 mph)
- If 'Active Assist' is selected, braking may be assisted.



OBC3070003

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 and the steering wheel will vibrate. (if equipped)
- 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 or cyclist 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, pedestrian or cyclist ahead.



OBC3070004

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

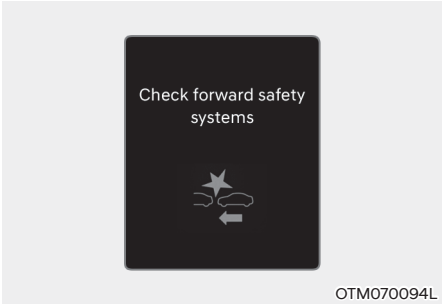
Forward Collision-Avoidance Assist operating speed range may reduce due to the conditions of the vehicle, pedestrian or cyclist in front or surroundings. Depending on the speed, the function may only warn the driver, or the function may not operate.

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



OTM070094L

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



OTM070093N

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 disable Forward Collision-Avoidance Assist.

If this occurs the 'Forward Safety system(s) 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 function 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 vehicle in front is detected late
- The vehicle in front is suddenly blocked by a obstacle
- The vehicle in front suddenly changes lane or suddenly reduces speed
- The vehicle in front is bent out of shape
- The front vehicle's speed is fast or slow
- 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

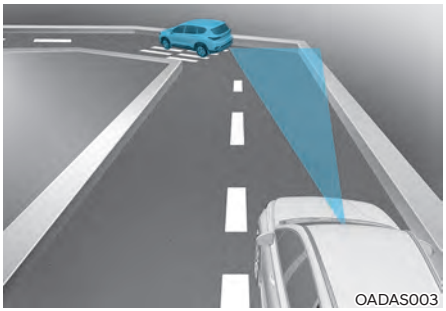

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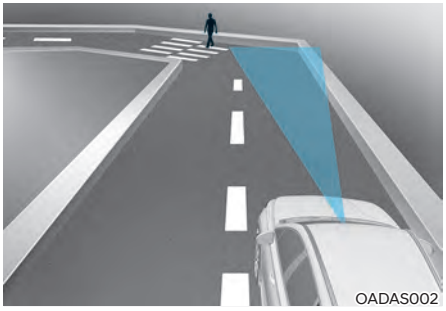
The illustration above shows the image the front view camera will detect as a vehicle, pedestrian and cyclist.

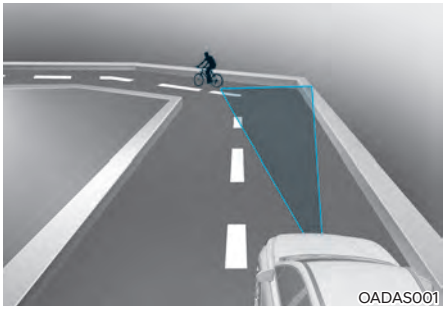
- The pedestrian or cyclist in front is moving very quickly
- The pedestrian or cyclist in front is short or is posing a low posture
- The pedestrian or cyclist in front has impaired mobility
- The pedestrian or cyclist in front is moving intersected with the driving direction
- There is a group of pedestrians, 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**



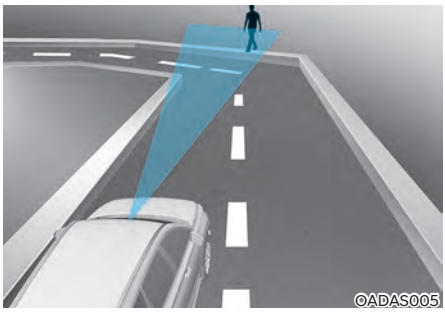


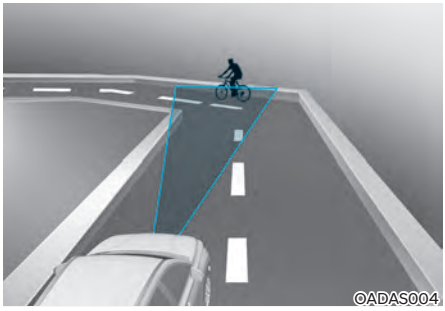


Forward Collision-Avoidance Assist may not detect other vehicles, pedestrians or cyclists in front of you on curved roads adversely affecting the performance of the sensors. This may result in no warning or braking assist when necessary.

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.



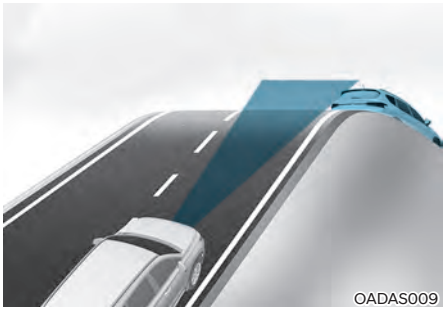




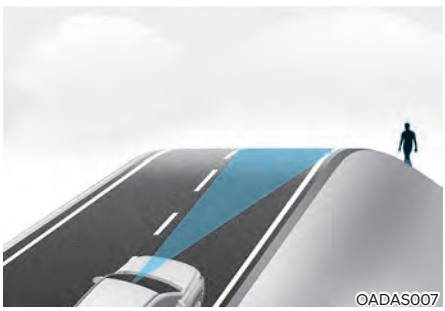
Forward Collision-Avoidance Assist may detect a vehicle, pedestrian or cyclist in the next lane or outside the lane when driving on a curved road.

If this occurs, the function may unnecessarily warn the driver and control the brake. Always check the traffic conditions around the vehicle.

- **Driving on a slope**







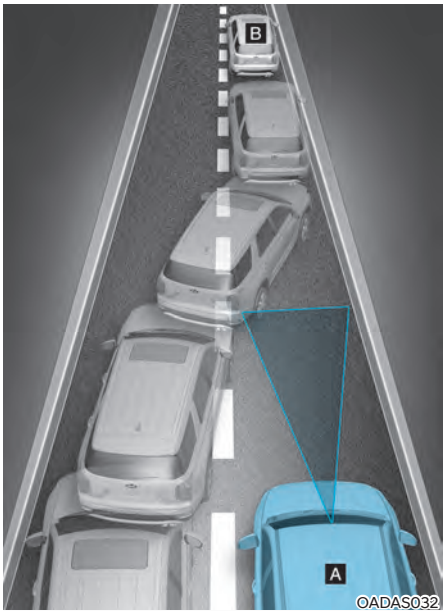
Forward Collision-Avoidance Assist may not detect other vehicles, pedestrians or cyclists in front of you while driving uphill or downhill adversely affecting the performance of the sensors.

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.

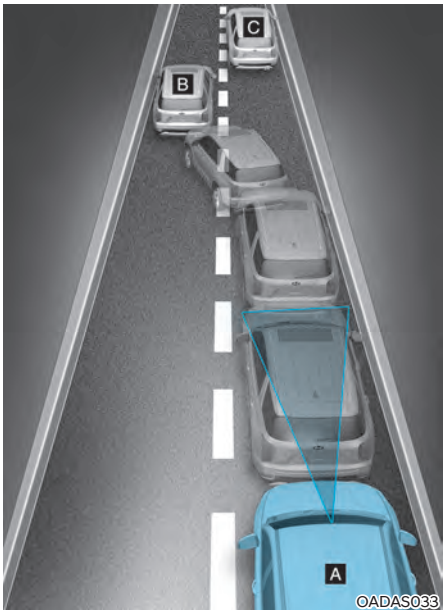
Always have your eyes on the road while driving uphill or downhill and if necessary, steer the vehicle and depress the brake pedal to reduce your driving speed in order to maintain a safe distance.

- **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.

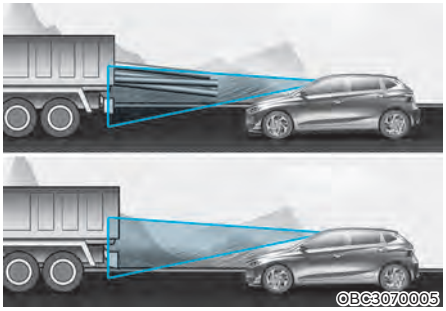


[A] : Your vehicle,
[B] : Lane changing vehicle,
[C] : Same lane vehicle

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**



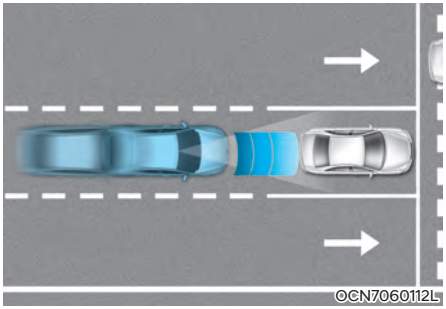
If the vehicle in front of you has cargo that extends rearward from the cab, or when the vehicle in front of you has higher ground clearance, additional special attention is required. Forward Collision-Avoidance Assist may not be able to detect the cargo extending from the vehicle. In these instances, 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, 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.**

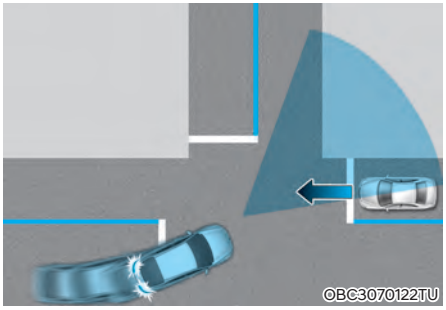
FORWARD COLLISION–AVOIDANCE ASSIST (FCA) (SENSOR FUSION) (IF EQUIPPED)

Basic function



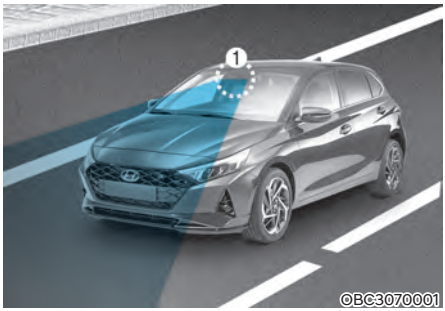
Forward Collision-Avoidance Assist is designed to help detect and monitor the vehicle ahead or help detect a pedestrian or cyclist in the roadway and warn the driver that a collision is imminent with a warning message and an audible warning, and if necessary, apply emergency braking.

Junction Turning function (if equipped)



Junction Turning function will help avoid a collision with an oncoming vehicle in an adjacent lane when turning left at a crossroad with the turn signal on by applying emergency braking.

Detecting sensor







[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 function 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



OTM070090L

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 and steering wheel vibration (if equipped) 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 and steering wheel vibration (if equipped) 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

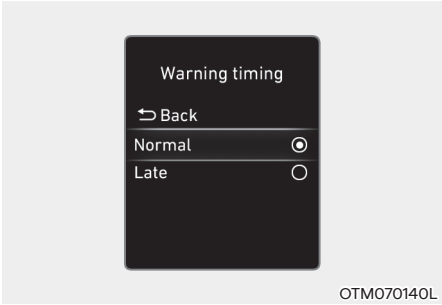
When the engine is restarted, Forward Collision-Avoidance Assist will always turn on. However, if 'Off' is selected after the engine is restarted, the driver should always be aware of the surroundings and drive safely.

CAUTION

- **If 'Warning only' is selected, braking is not assisted.**
- **The settings for Forward Safety include 'Basic function' and 'Junction Turning' (if equipped).**
- **Steering wheel vibration can be turned on or off. Select or deselect 'Driver Assistance → Haptic Warning' from the Settings menu (if equipped).**

Information

Forward Collision-Avoidance Assist will turn off when ESC is turned off by pressing and holding the ESC OFF button. The warning light will illuminate on the cluster.



OTM070140L

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.



ONX4E070090

Warning volume

With the engine on, select ‘Driver Assistance → Warning Volume’ from the Settings menu to change the Warning Volume to ‘High’, ‘Medium’, ‘Low’ or ‘Off (if steering wheel vibration function equipped)’ for Forward Collision-Avoidance Assist.

However, even if ‘Off’ is selected, the function's Warning Volume 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.

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 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'.



OBC3070002

Collision warning

- To warn the driver of a collision, the 'Collision Warning' warning message will appear on the cluster, an audible warning will sound and the steering wheel will vibrate (if equipped).
- 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.



OBC3070003

Emergency braking

- To warn the driver that emergency braking will be assisted, the 'Emergency Braking' warning message will appear on the cluster, an audible warning will sound and the steering wheel will vibrate (if equipped).
- 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.



OBC3070004

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.

Junction Turning function (if equipped)

Function warning and control

Junction Turning function will help warn and control the vehicle depending on the collision level: 'Collision warning', 'Emergency braking' and 'Stopping vehicle and ending brake control'

■ Left-hand drive



OBC3070008

■ Right-hand drive



OBC3070007

Collision warning

- To warn the driver of a collision, the 'Collision Warning' warning message will appear on the cluster, an audible warning will sound and the steering wheel will vibrate (if equipped).
- The function will operate when your vehicle speed is between approximately 10~30 km/h (6~19 mph) and the oncoming vehicle speed is between approximately 30~70 km/h (19~44 mph).
- If 'Active assist' is selected, braking may be assisted.

■ Left-hand drive



OBC3070010

■ Right-hand drive



OBC3070009

Emergency braking

- To warn the driver that emergency braking will be assisted, the 'Emergency Braking' warning message will appear on the cluster, an audible warning will sound and the steering wheel will vibrate (if equipped).
- The function will operate when your vehicle speed is between approximately 10~30 km/h (6~19 mph) and the oncoming vehicle speed is between approximately 30~70 km/h (19~44 mph).
- In emergency braking situation, braking is assisted with strong braking power by the function to help prevent collision with the oncoming vehicle.

Information

If the driver's seat is on the left side, Junction Turning function will operate only when the driver turns left. If the driver's seat position is on right side, the function will operate only when you turn right.



OBC3070004

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, 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

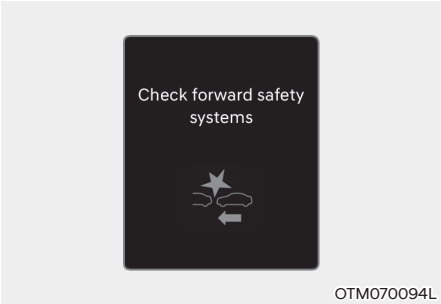
- **Forward Collision-Avoidance Assist operating speed range may reduce due to the conditions of the vehicle or pedestrian in front or surroundings. Depending on the speed, the function may only warn the driver, or the function may not operate.**
- **Forward Collision-Avoidance Assist will operate under 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 systems' 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



OTM070093L



OTM070095L

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 systems. Camera obscured' or the 'Forward safety systems disabled. Radar blocked' warning message, and the ⚠ and warning lights will illuminate on the cluster.

The function will operate normally when 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 function 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 a obstacle
- The vehicle in front suddenly changes lane or suddenly reduces speed
- The vehicle in front is bent out of shape
- The front vehicle's speed is fast or slow
- 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

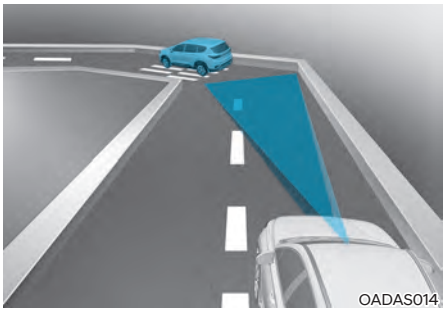


The illustration above shows the image the front view camera will detect as a vehicle, pedestrian and cyclist.

- 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**

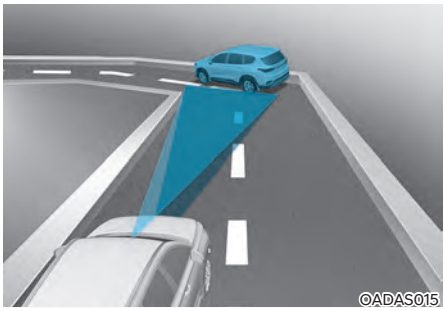






Forward Collision-Avoidance Assist may not detect other vehicles, pedestrians or cyclists in front of you on curved roads adversely affecting the performance of the sensors. This may result in no warning or braking assist when necessary.

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.



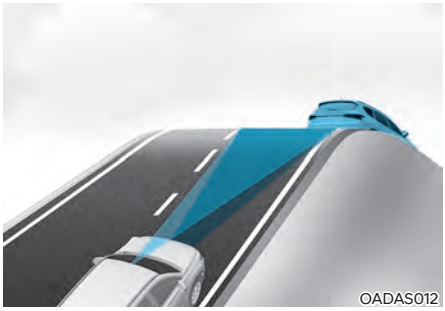




Forward Collision-Avoidance Assist may detect a vehicle, pedestrian or cyclist in the next lane or outside the lane when driving on a curved road.

If this occurs, the function may unnecessarily warn the driver and control the brake. Always check the traffic conditions around the vehicle.

- **Driving on a slope**







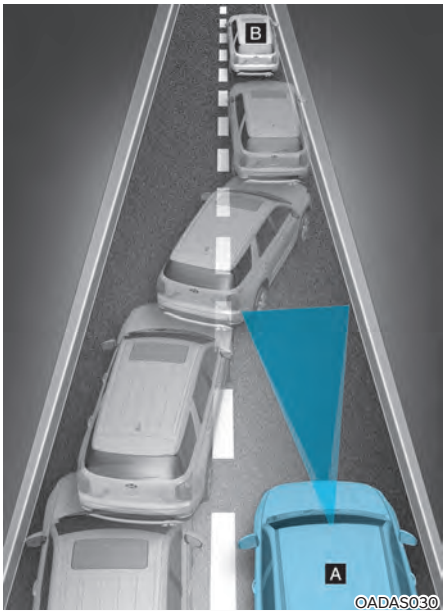
Forward Collision-Avoidance Assist may not detect other vehicles, pedestrians or cyclists in front of you while driving uphill or downhill adversely affecting the performance of the sensors.

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.

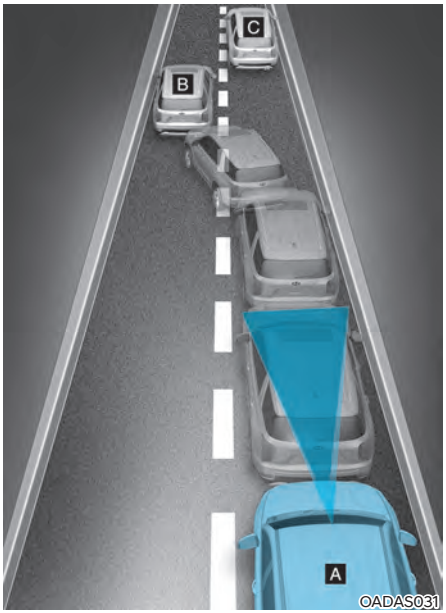
Always have your eyes on the road while driving uphill or downhill and if necessary, steer your vehicle and depress the brake pedal to reduce your driving speed in order to maintain a safe distance.

- **Changing lanes**



[A] : Your vehicle,
[B] : Lane changing vehicle

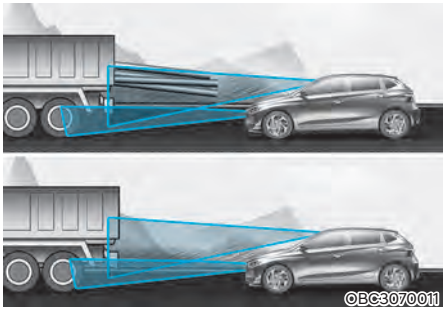
When a vehicle moves into your lane from an adjacent lane, it cannot be detected by the sensor until it is in the sensor's detection range. Forward Collision-Avoidance Assist may not immediately detect the vehicle when the vehicle changes lanes abruptly. In this case, you must maintain a safe braking 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.

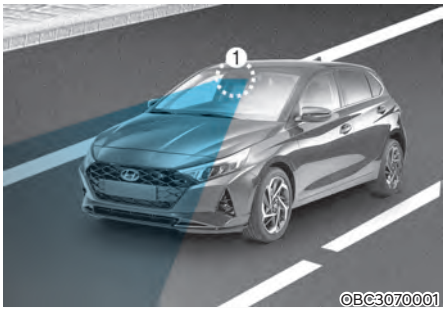
WARNING

- **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



[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



OTM070184L

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 and steering wheel vibration (if equipped) 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 Lane Keeping Assist On/Off (Lane Driving Assist button)



OBC3070012

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.

Information

When the Lane Driving Assist button is pressed shortly, Lane Following Assist will turn on and off.

■ Type A



OTM070141L

■ Type B



ONX4E070090

Warning volume

With the Engine Start/Stop button in the ON position, select 'Driver Assistance → Warning Volume' from the Settings menu to change the Warning Volume to 'High', 'Medium', 'Low' or 'Off (if steering wheel vibration function equipped)' for Lane Keeping Assist.

However, even if 'Off' is selected, the Hands-off Warning Volume will not be turned off. Steering wheel vibration function (if equipped) will also remain on even if 'Off' is selected.

If you change the Warning volume, the Warning volume of other Driver Assistance systems may be changed.

System operation

System warning and control

Lane Keeping Assist will help warn and control the vehicle with Lane Departure Warning and Lane Keeping Assist.

■ Left



OBC3070014

■ Right



OBC3070013

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. Also, the steering wheel will vibrate. (if equipped)
- The system 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).



OBC3070015

Hands-off warning

If the driver takes their hands off the steering wheel for several seconds, the 'Keep hands on the steering wheel' warning message will appear 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.**

■ Lane undetected



OBC3070017

■ Lane detected



OBC3070016

- **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



OTM070035L

When Lane Keeping Assist is not working properly, the 'Check LKA (Lane Keeping Assist) system' warning message will appear and the yellow indicator light will illuminate on the cluster. If this occurs, we recommend that the function be inspected by an authorized HYUNDAI dealer.

Limitations of Lane Keeping Assist

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.

WARNING

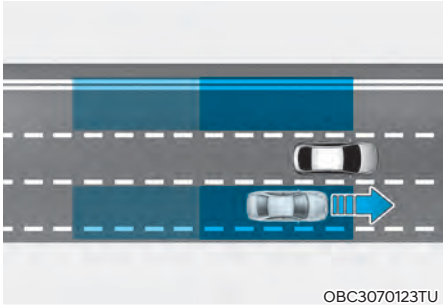
Take the following precautions when using Lane Keeping Assist:

- **The driver should hold the responsibility to safely drive and control the vehicle. Do not solely rely on the function and drive dangerously.**
- **The operation of Lane Keeping Assist can be cancelled or not work properly depending on road conditions and surroundings. Always be cautious while driving.**
- **Refer to "Limitations of Lane Keeping Assist" if the lane is not detected properly.**
- **When you are towing a trailer or another vehicle, 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 function'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 function 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**

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.

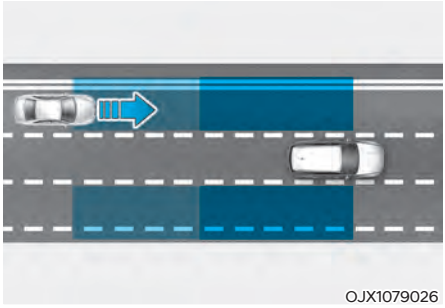


OBC3070123TU

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 function may not warn you when you pass by at high speed.



OJX1079026

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 function 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 function 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 function may not operate.**

Blind-Spot Collision Warning settings

Setting 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 'Warning only' is selected, the function will warn the driver with a warning message and an audible warning and steering wheel vibration (if equipped) depending on the collision risk levels. Braking will not be assisted.
- If 'Off' is selected, the function will turn off.



OTM070097L

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.



OTM070140L

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.

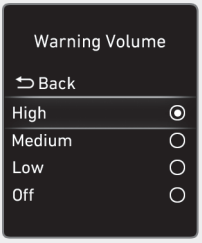
When the vehicle is first delivered, Warning timing is set to 'Normal'. If you change the Warning timing, the warning time of other Driver Assistance systems may change.

■ Type A



OTM070141L

■ Type B



ONX4E070090

Warning volume

With the engine on, select 'Driver Assistance → Warning Volume' from the Settings menu to change the Warning Volume to 'High', 'Medium', 'Low' or 'Off (if steering wheel vibration function equipped)' for Blind-Spot Safety system.

However, when Warning Volume is turned off, the steering wheel vibration function (if equipped) will turn on if it was turned off.

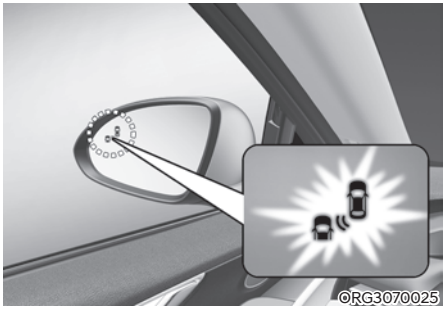
If you change the Warning volume, the warning volume of other Driver Assistance systems may change.

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 vehicle 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 Collision Warning operation

Blind-Spot Collision Warning warning



Vehicle detection

- To warn the driver, a vehicle is detected, the warning light on the outside rearview mirror will illuminate.
- The 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 will blink. At the same time, an audible warning will sound and the steering wheel will vibrate (if equipped).
- When the turn signal is turned off or you move away from the lane, the collision warning will be canceled and the function 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 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.

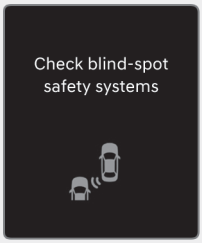
WARNING

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.**
- **Never operate Blind-Spot Safety system on people, animal, objects, etc. It may cause serious injury or death.**

Blind-Spot Collision Warning malfunction and limitations

Blind-Spot Collision Warning malfunction



OTM070099L

When Blind-Spot Safety system is not working properly, the 'Check Blind- Spot Safety system' warning message will appear on the cluster for several seconds, and the master (⚠) warning light will illuminate on the cluster. We recommend that the system be inspected by an authorized HYUNDAI dealer.



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 for several seconds, and the master (⚠) warning light will illuminate on the cluster. We recommend that the function be inspected by an authorized HYUNDAI dealer.

Blind-Spot Collision Warning disabled



OTM070098L

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 systems 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 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, 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 Collision Warning

Blind-Spot Safety system may not operate normally, or the function may operate unexpectedly under the following circumstances:

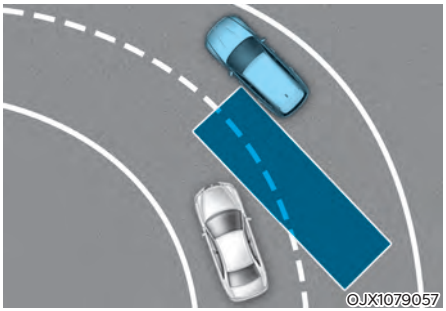
- There is inclement weather such as heavy snow, heavy rain, etc.
- The rear corner radar is covered with snow, rain, dirt, etc.
- The temperature around the rear corner radar is high or low
- Driving on a highway (or motorway) ramp
- The road pavement (or the peripheral ground) abnormally contains metallic 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 function 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

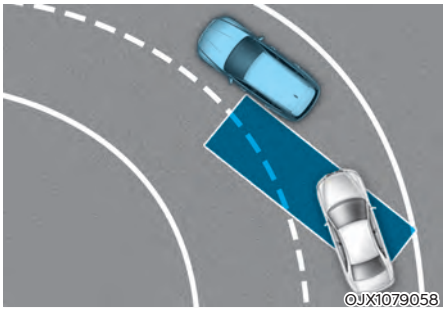
WARNING

- 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.

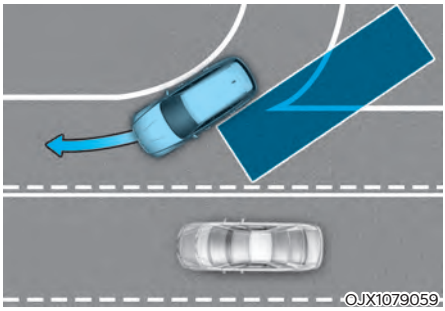
Always pay attention to road and driving conditions while driving.



Blind-Spot Safety system may not operate properly when driving on the curved road. The function may recognize the vehicle in the same lane.

Always pay attention to road and driving conditions while driving.

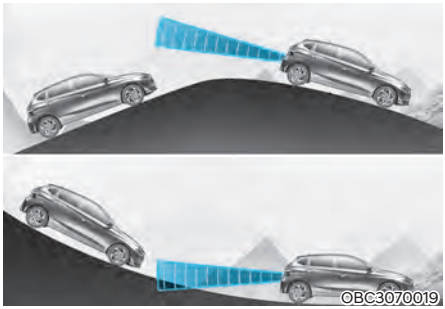
- Driving where the road is merging/ dividing



Blind-Spot Safety system may not operate properly when driving where the road merges or divides. The function may not detect the vehicle in the next lane.

Always pay attention to road and driving conditions while driving.

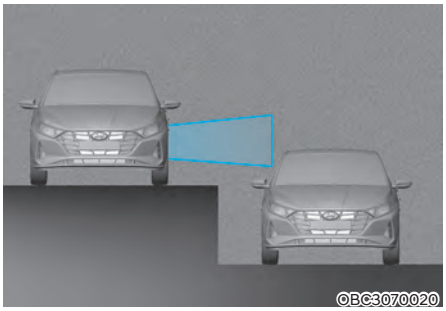
- Driving on a slope



Blind-Spot Safety system may not operate properly when driving on a slope. The 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 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.

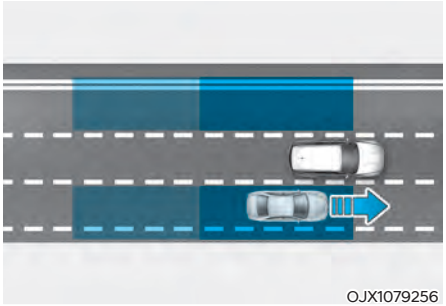
WARNING

- **Blind-Spot Safety system may not operate normally if interfered by strong electromagnetic waves.**
- **Blind-Spot Safety system may not operate for 3 seconds after the vehicle is started, or the rear corner radars are initialized.**

BLIND-SPOT COLLISION-AVOIDANCE ASSIST (BCA) (IF EQUIPPED)

Blind-Spot Collision-Avoidance Assist is designed to help detect and monitor approaching vehicles in the driver's blind spot area and warn the driver of a possible collision with a warning message and audible warning.

In addition, if there is a risk of collision when changing lanes or driving forward out of a parking space, the function will help avoid a collision by applying the brake.

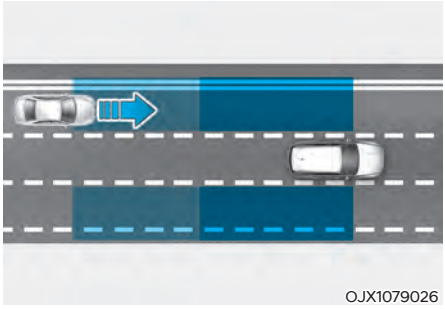


OJX1079256

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.

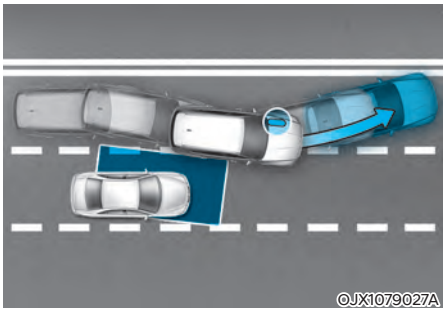


OJX1079026

Blind-Spot Collision Assist helps detect and informs the driver that a vehicle is approaching at high speed from the blind spot area.

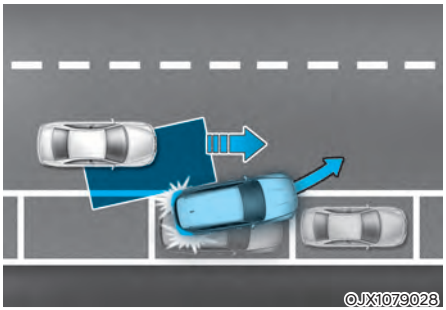
CAUTION

Warning timing may vary depending on the speed of the vehicle approaching at high speed.



OJX1079027A

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.

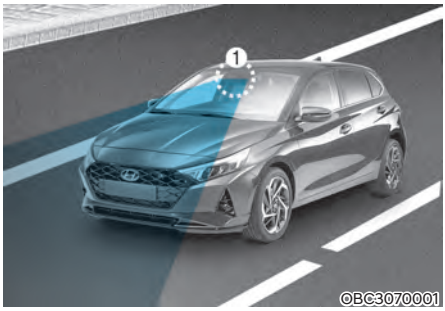


When you are driving forward out of a parking space, if the function judges that there is a collision risk with an approaching vehicle in the blind spot, the function will help avoid a collision by applying the brake.

Information

In the following text, Blind-Spot Collision-Avoidance Assist will be referred as Blind-Spot Safety system.

Detecting sensor





[1] : Front view camera,
[2] : Rear corner radar

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

CAUTION

Take the following precautions to maintain optimal performance of the detecting sensor:

- **Never disassemble the rear corner radar or radar assembly, or 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 Safety system 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.**
- **The function 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 function 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

Setting features



OTM070096L

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, the function will warn the driver with a warning message, an audible warning, steering wheel vibration (if equipped) and braking assist will be applied depending on the collision risk levels.
- If 'Warning only' is selected, the function will warn the driver with a warning message and an audible warning and steering wheel vibration (if equipped) depending on the collision risk levels. Braking will not be assisted.
- If 'Off' is selected, the function will turn off.



OTM070097L

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 'Active assist' or 'Warning only', the warning light on the outside rearview mirror will blink for three seconds.

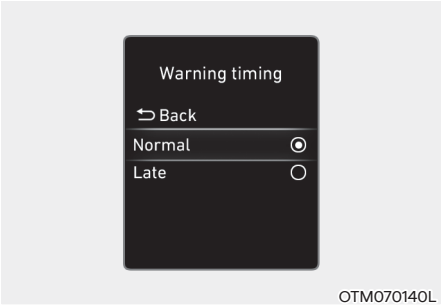
In addition, if the engine is turned on, when the system is set to 'Active assist' or 'Warning only', the warning light on the outside rearview mirror will blink for three seconds.

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 Safety system will maintain the last setting.



OTM070140L

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.

■ Type A



OTM070141L

■ Type B



ONX4E070090

Warning volume

With the engine on, select 'Driver Assistance → Warning Volume' from the Settings menu to change the Warning Volume to 'High', 'Medium', 'Low' or 'Off (if steering wheel vibration function equipped)' for Blind-Spot Safety system.

However, when Warning Volume is turned off, the steering wheel vibration function (if equipped) will turn on if it was turned off.

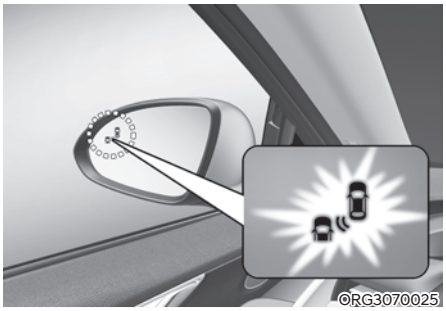
If you change the Warning volume, the warning volume of other Driver Assistance systems may change.

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 approach 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 Collision-Avoidance Assist operation

Warning and control



Vehicle detection

- To warn the driver a vehicle is detected, the warning light on the outside rearview mirror will illuminate.
- The 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.
- If 'Warning only' is selected from the Settings menu, the collision warning will operate when your vehicle approaches the lane the blind spot vehicle is detected.
- To warn the driver of a collision, the warning light on the outside rearview mirror will blink. At the same time, an audible warning will sound and the steering wheel will vibrate (if equipped).
- When the turn signal is turned off or you move away from the lane, the collision warning will be canceled and the function 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, 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 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 the steering wheel will vibrate (if equipped).
- The function 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 function operation or lane change, you must drive to the center of the lane. The function 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 the steering wheel will vibrate (if equipped).
- The function 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 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 not operate if the driver applies the brake pedal to avoid collision.
- When Blind-Spot Safety system is operating, braking control by the function will automatically cancel when the driver excessively depresses the accelerator pedal or sharply steers the vehicle.
- During Blind-Spot Safety system 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 Safety system, the vehicle's basic braking performance will operate normally.
- Blind-Spot Safety system does not operate in all situations or cannot avoid all collisions.
- 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.
- Never operate Blind-Spot Safety system on people, animal, objects, etc. It may cause serious injury or death.

WARNING

The brake control may not operate properly depending on the status of ESC (Electronic Stability Control).

There will only be a warning when:

- The ESC (Electronic Stability Control) warning light is on
- ESC (Electronic Stability Control) is engaged in a different function

Blind-Spot Collision-Avoidance Assist malfunction and limitations

Blind-Spot Collision-Avoidance Assist malfunction



OTM070099L

When Blind-Spot Safety system is not working properly, the 'Check Blind- Spot Safety system' warning message will appear on the cluster for several seconds, and the master (⚠) warning light will illuminate on the cluster. We recommend that the system be inspected by an authorized HYUNDAI dealer.



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 for several seconds, and the master (⚠) warning light will illuminate on the cluster. We recommend that the system be inspected by an authorized HYUNDAI dealer.

Blind-Spot Collision-Avoidance Assist disabled



OTM070098L

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 systems 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 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, 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 Collision-Avoidance Assist

Blind-Spot Safety system may not operate normally, or the function 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 function 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

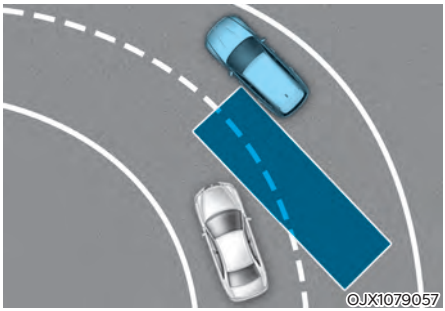
Braking control may not work, driver's attention is required in the following circumstances:

- 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.

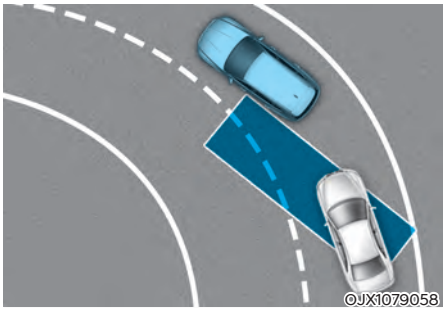
WARNING

- **Driving on a curve**



Blind-Spot Safety system may not operate properly when driving on a curved road. The function may not detect the vehicle in the next lane.

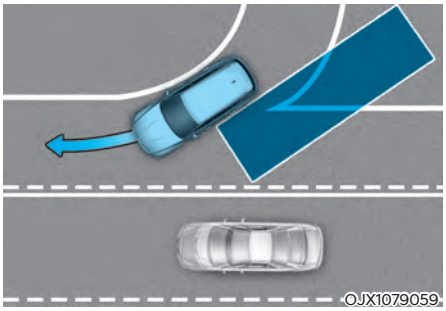
Always pay attention to road and driving conditions while driving.



Blind-Spot Safety system may not operate properly when driving on a curved road. The function may recognize a vehicle in the same lane.

Always pay attention to road and driving conditions while driving.

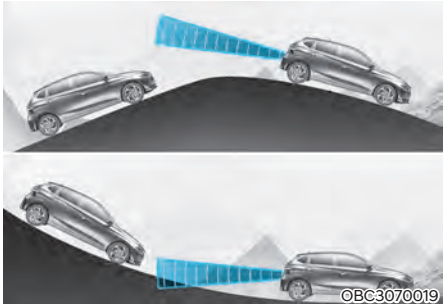
- **Driving where the road is merging/ dividing**



Blind-Spot Safety system may not operate properly when driving where the road merges or divides. The function may not detect the vehicle in the next lane.

Always pay attention to road and driving conditions while driving.

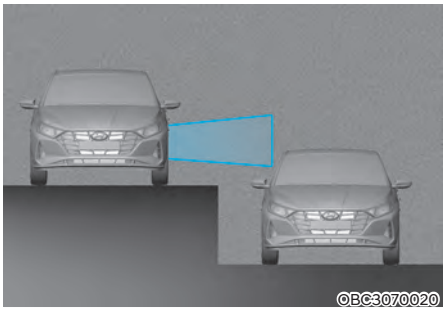
- **Driving on a slope**



Blind-Spot Safety system 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**



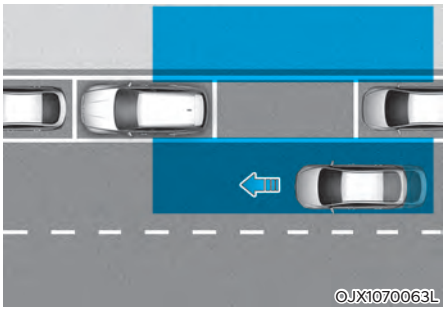
Blind-Spot Safety system may not operate properly when driving where the heights of the lanes are different. The function may not detect the vehicle on a road with different lane heights (underpass joining section, grade separated intersections, etc.).

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 3 seconds after the vehicle is started, or the front view camera or rear corner radars are initialized.**

SAFE EXIT WARNING (SEW) (IF EQUIPPED)



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



[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-Avoidance Assist (BCA)” section in chapter 7.

Safe Exit Warning settings

Setting features



OCN7070042L

Safe Exit Warning

With the Engine Start/Stop button in the ON position, select 'Driver Assistance → Blind-Spot Safety → Safe Exit Warning' from the Settings menu to turn on Safe Exit Warning and deselect to turn off the function.

WARNING

The driver should always be aware of unexpected and sudden situations from occurring. If 'Safe Exit Warning' is deselected, the function cannot assist you.

Information

If the engine is restarted, Safe Exit Warning will maintain the last setting.



ODN8H069207L

Warning Timing

With the Engine Start/Stop button in the ON position, 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.

■ Type A



OTM070141L

■ Type B



ONX4E070090

Warning Volume

With the engine on, select 'Driver Assistance → Warning Volume' from the Settings menu to change the Warning Volume to 'High', 'Medium', 'Low' or 'Off (if steering wheel vibration function equipped)' for Blind-Spot Safety system.

However, when Warning Volume is turned off, the steering wheel vibration function (if equipped) will turn on if it was turned off.

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 and when driving speed is slow.**

Information

If the engine is restarted, Warning Timing and Warning Volume will maintain the last setting.

Safe Exit Warning operation

Warning

■ Left-hand drive



OBC3070008

■ Right-hand drive



OBC3070007

Collision warning when exiting vehicle

- When an approaching vehicle from the rear is detected at the moment a door is opened, the 'Watch for traffic' warning message will appear on the cluster, and an audible warning will sound.
- Safe Exit Warning will warn the driver when your vehicle speed is below 3 km/h (2 mph), and the speed of the approaching vehicle from the rear is above 6 km/h (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 function'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. The warning message of Blind-Spot Safety system will appear when:**
  - **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**

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



OCN7070039L

When Safe Exit Assist is not working properly, the 'Check Blind-Spot Safety system' warning message will appear on the cluster for several seconds, and the master (⚠) warning light will illuminate on the cluster. If the master warning light illuminates, we recommend that the vehicle be inspected by an authorized HYUNDAI dealer.

Safe Exit Warning disabled



OCN7070041L

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 function 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 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, 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

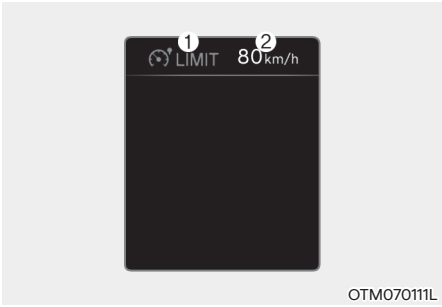
Safe Exit Warning may not operate normally, or the function may operate unexpectedly under the following circumstances:

- Getting off the vehicle where trees or grass are overgrown
- Getting off the vehicle where the road is wet
- The approaching vehicle is very fast or very slow

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 rear corner radars are initialized.**

MANUAL SPEED LIMIT ASSIST (MSLA)



OTM070111L

(1) Manual Speed Limit Assist enabled indicator

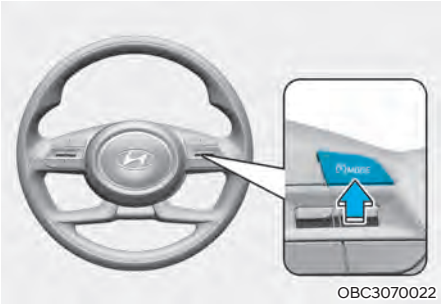
(2) Set speed

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.

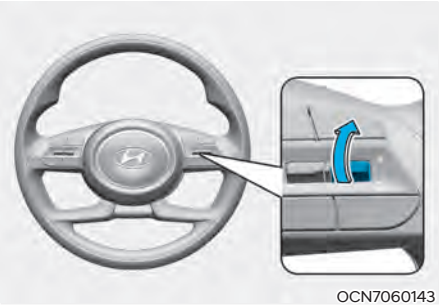
System operation

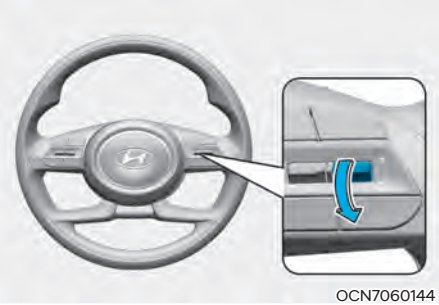
To set speed limit



OBC3070022

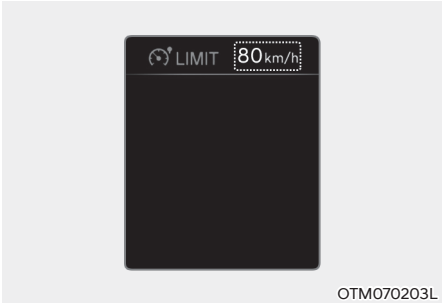
1. Press and hold Driving Assist ( ) button at the desired speed. The Manual Speed Limit Assist enabled (LIMIT) indicator will illuminate on the cluster.


OCN7060143


OCN7060144

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).



OTM070203L

3. The set speed limit will be displayed on the cluster.

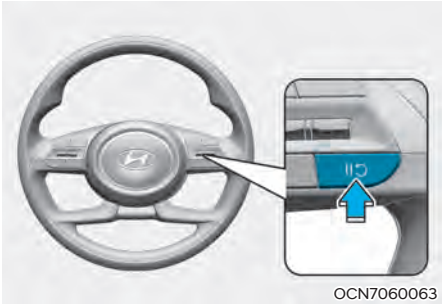
   If you would like to drive over the preset speed limit, depress the accelerator pedal beyond the pressure point to activate the kickdown mechanism.

   The set speed limit will blink and chime will sound until you return the vehicle speed within the speed limit.

Information

- **When the accelerator pedal is not depressed beyond the pressure point, the 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.**

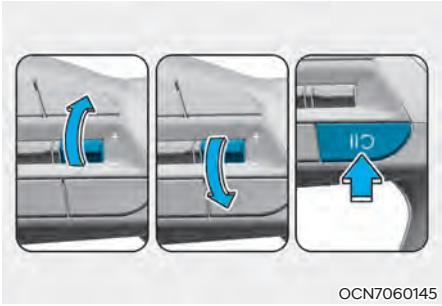
To temporarily pause Manual Speed Limit Assist


OCN7060063

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

Push the ⏸↺ switch to temporarily pause the set speed limit. The set speed limit will turn off but the Manual Speed Limit Assist enabled (LIMIT) indicator will stay on.

To resume Manual Speed Limit Assist

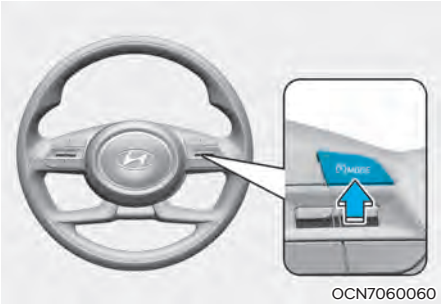

OCN7060145

To resume Manual Speed Limit Assist after the function 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


OCN7060060

Press the Driving Assist () button to turn Manual Speed Limit Assist off. The Manual Speed Limit Assist enabled (LIMIT) indicator will go off.

Always press the Driving Assist () 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 function 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.**

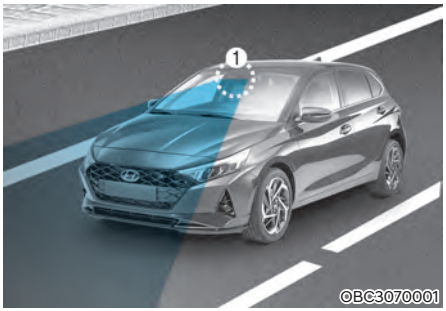
INTELLIGENT SPEED LIMIT ASSIST (ISLA) (IF EQUIPPED)

Intelligent Speed Limit Assist 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. Also, the function helps the driver to maintain within the speed limit of the road.

CAUTION

Intelligent Speed Limit Assist may not operate properly if the function is used in other countries.

Detecting sensor



[1] : Front view camera

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

CAUTION

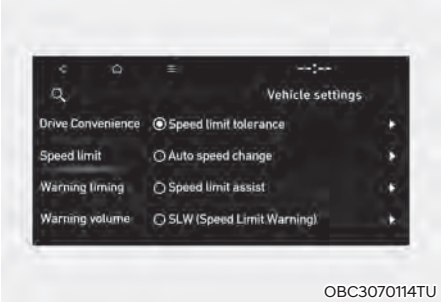
For more details on the precautions of the front view camera, refer to "Forward Collision-Avoidance Assist (FCA)" section in chapter 7.

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 Assist settings

Setting features



Speed limit

With the engine on, select or deselect 'Drive Assistance → Speed limit' from the Settings menu to set whether or not to use each function.

- If 'Speed limit assist' is selected, the function will inform the driver of speed limit and additional road signs. In addition, the function will inform the driver to change set speed of Manual Speed Limit Assist or Smart Cruise Control to help the driver stay within the speed limit.
- If 'Speed limit warning' is selected, the function will inform the driver of speed limit and additional road signs. In addition, the function will warn the driver when the vehicle is driven faster than the speed limit.
- If 'Off' is selected, the function will turn off.

CAUTION

If 'Speed limit warning' is selected, the function will not inform the driver to adjust set speed.

Speed Limit Offset

With the Engine Start/Stop button in the ON position, when ‘Driver assistance → Speed limit → Speed limit tolerance’ is selected, the Speed limit tolerance can be changed. Speed Limit Warning and Speed Limit Assist will operate by applying the Speed limit tolerance setting to the detected speed limit.

WARNING

- **For your safety, change the Settings after parking the vehicle at a safe location.**
- **Speed Limit Assist function operates based on the Speed limit tolerance setting added to the speed limit. If you want to change the set speed according to the speed limit, set the offset to ‘0’.**
- **Speed Limit Warning function warns the driver when driving speed exceeds the speed at which the set Speed limit tolerance is added to speed limit. If you want Speed limit warning to warn you immediately when the driving speed exceeds the speed limit, set the offset to ‘0’.**

Intelligent Speed Limit Assist operation

Warning and control

Intelligent Speed Limit Assist will warn and control the vehicle by ‘Displaying speed limit’, ‘Warning overspeed’ and ‘Changing set speed’.

Information

Function warning and control are described based on the Speed limit tolerance set to '0'. For details on Offset setting, refer to the “System Settings”.



OBC3070062



OBC3070089TU

Displaying speed limit

Speed limit information is displayed on the instrument cluster.

Information

- **If speed limit information of the road cannot be recognized, '---' sign will be displayed. Please refer to "Limitations of Intelligent Speed Limit Assist" if the road signs are difficult to recognize.**
- **Intelligent Speed Limit Assist provides additional road sign information in addition to speed limit. The additional road sign information provided may vary according to your country.**
- **Supplementary sign displayed under the speed limit or overtaking restriction sign means the conditions under which the signs must be followed. If supplementary sign is not recognized, it will be displayed as blank.**



OBC3070090TU

Warning overspeed

When driving at a speed higher than the displayed speed limit, the red speed limit indicator will blink.



OBC3070091TU



OBC3070092TU

Changing set speed

If the speed limit of the road changes during the operation of Manual Speed Limit Assist or Smart Cruise Control, an arrow in the direction of up or down is displayed to inform the driver that the set speed needs to be changed. At this time, the driver can change the set speed according to the speed limit by using the + or – switch on the steering wheel.

WARNING

- **If the Speed limit tolerance is set over '0', the set speed will change to a higher speed than the speed limit of the road. If you want to drive below the speed limit, set the Speed limit tolerance under '0' or use the – switch on the steering wheel to lower the set speed.**
- **Even after changing the set speed according to the speed limit of the road, the vehicle can still be driven over the speed limit. If necessary, depress the brake pedal to reduce your driving speed.**
- **If the speed limit of the road is under 30 km/h (20 mph), the set speed change function will not work.**
- **Intelligent Speed Limit Assist operates using the speed unit in the instrument cluster set by the driver. If the speed unit is set to a unit other than the speed unit used in your country, Intelligent Speed Limit Assist may not operate properly.**

Information

- **For more details on function operation of Manual Speed Limit Assist, refer to "Manual Speed Limit Assist (MSLA)" section in chapter 7.**
- **For more details on function operation of Smart Cruise Control, refer to "Smart Cruise Control (SCC)" section in chapter 7.**

Manual Speed Limit Assist malfunction and limitations

Manual Speed Limit Assist malfunction



OBC3070032

When Intelligent Speed Limit Assist 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.

Manual Speed Limit Assist disabled



OTM070226L

When the front windshield where the front view camera is located is covered with foreign material, such as snow or rain, it can reduce the detecting performance and temporarily limit or disable Intelligent Speed Limit Assist. If this occurs, the ‘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 Assist may not operate properly.**
- **If the detecting sensor is contaminated immediately after starting the engine, the function may not operate properly.**

Limitations of Intelligent Speed Limit Assist

Intelligent Speed Limit Assist 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 distance between the vehicle and the road signs is too far
- The vehicle encounters illuminant road signs
- Intelligent Speed Limit Assist incorrectly recognizes numbers in the street signals or other signs as the speed limit
- The minimum speed limit sign is on the road
- The brightness changes suddenly, for example when entering or exiting a tunnel or passing under a bridge
- 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 navigation information or GPS information contain errors.
- The driver does not follow the guide of the navigation.
- The driver is driving a new road that is not in the navigation system yet.
- The field of view of the front view camera is obstructed by sun glare
- Driving on a road that is sharply curved or continuously curved
- Driving through speed bumps, or driving up and down or left to right on steep inclines
- The vehicle is shaking heavily

Information

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

WARNING

- **Intelligent Speed Limit Assist is a supplemental function that helps the driver to comply with the speed limit on the road, and may not display the correct speed limit or control the driving speed properly.**
- **Always set the vehicle speed to the speed limit in your country.**

DRIVER ATTENTION WARNING (DAW) (IF EQUIPPED)

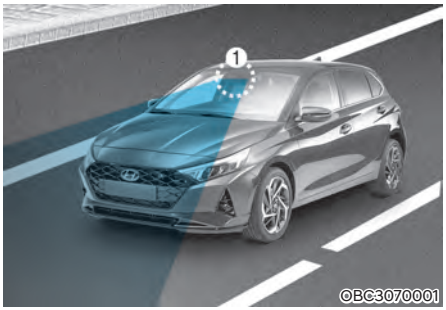
Basic function

Driver Attention Warning will help determine the driver's attention level by analyzing driving pattern, driving time, etc. while vehicle is being driven. The function will recommend a break when the driver's attention level falls below a certain level.

Leading Vehicle Departure Alert function

Leading Vehicle Departure Alert function will inform the driver when the front vehicle departs from a stop.

Detecting sensor



[1] : Front view camera

The front view camera is used to 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.

Driver Attention Warning settings

Setting features



DAW (Driver Attention Warning)

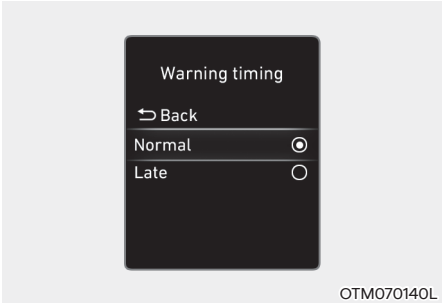
With the engine on, select or deselect 'Driver Assistance → DAW (Driver Attention Warning)' from the Settings menu to set whether or not to use each function.

- If 'Swaying warning' is selected, the function will inform the driver the driver's attention level and will recommend taking a break when the level falls below a certain level.



Leading vehicle departure alert

- If 'Leading vehicle departure alert' is selected, the function will inform the driver when the front vehicle departs from a stop.



OTM070140L

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.

Driver Attention Warning operation

Basic function

Display and warning

The basic function of Driver Attention Warning is to inform the driver of their 'Attention level' and to warn the driver to 'Consider taking a break'.

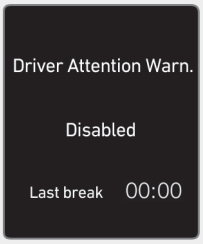
Attention level

■ function off



OTM070102L

■ Disabled



OTM070106L

■ Attentive driving



ONX4070092L

■ Swaying warning



OTM070191N

- The driver can monitor his/her driving conditions on the cluster.
  - When the 'Swaying warning' is deselected from the Settings menu, 'System Off' is displayed.
  - The function will operate when the vehicle speed is between 0~210 km/h (0~130 mph).
  - When the vehicle speed is not within the operating speed, the message '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



OTM070105L

- 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 function 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



OBC3070025

When the front vehicle departs from a stop, Leading Vehicle Departure Alert will inform the driver by displaying the '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.**

Driver Attention Warning malfunction and limitations

Driver Attention Warning malfunction



OBC3070026

When Driver Attention Warning is not working properly, the 'Check DAW (Driver Attention Warning) system' warning message will appear on the cluster. If this occurs, we recommend that the function be inspected by an authorized HYUNDAI dealer.

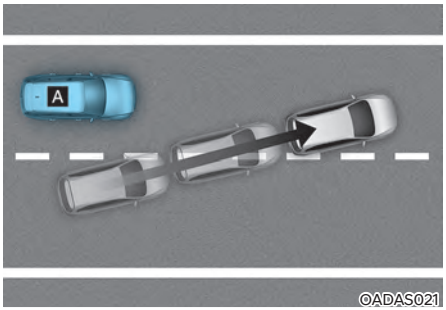
Limitations of Driver Attention Warning

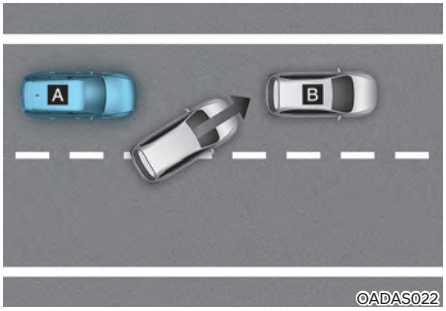
Driver Attention Warning may not work properly in the following situations:

- The vehicle is driven violently
- The vehicle intentionally crosses over lanes frequently
- The vehicle is controlled by Driver Assistance system, such as Lane Keeping Assist

Leading Vehicle Departure Alert feature

- When the vehicle cuts in

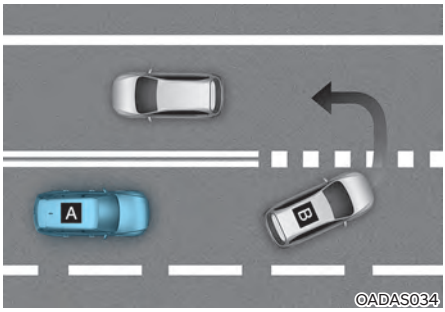




[A] : Your vehicle, [B] : Front vehicle

If a vehicle cuts in front of your vehicle, Leading Departure Alert may not operate properly.

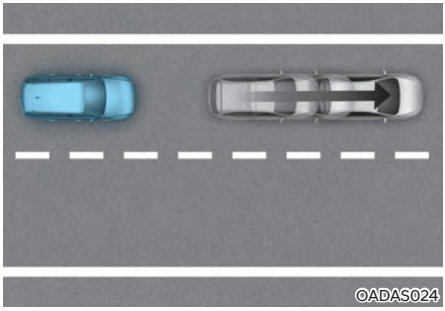
- When the vehicle ahead sharply steers



[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 departures



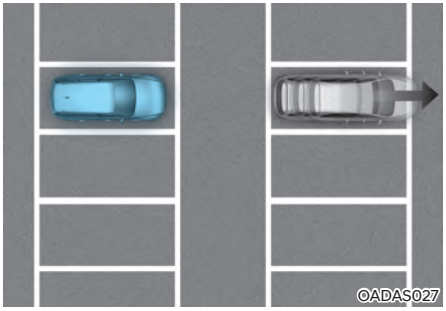
If the vehicle in front abruptly departures, Leading Vehicle Departure Alert may not operate properly.

- When a pedestrian or bicycle is between your vehicle and the vehicle ahead



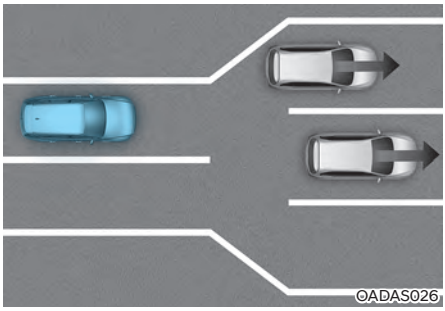
If there is a pedestrian(s) or bicycle(s) in between your vehicle and the vehicle in front, Leading Vehicle Departure Alert may not operate properly.

- 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.

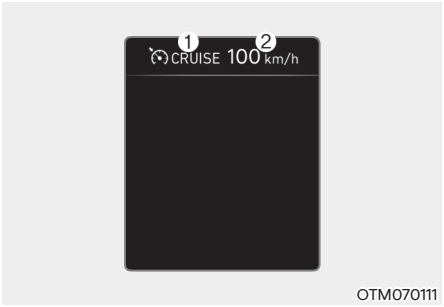


If you pass a tollgate or intersection with lots of vehicles or you drive where lanes are merged or divided frequently, Leading Vehicle Departure Alert may not operate properly.

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).


OBC3070070

2. Press the Driving Assist (⛐) 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.

Information

The vehicle may slightly slow down or speed up while driving uphill or downhill.

To increase speed



OBC3070027

- 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

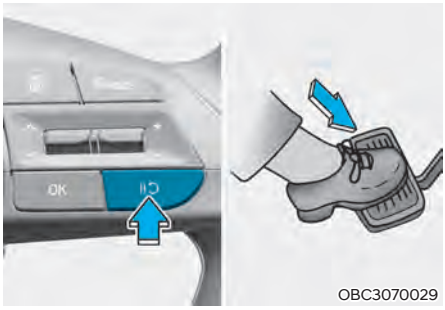


OBC3070028

- 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



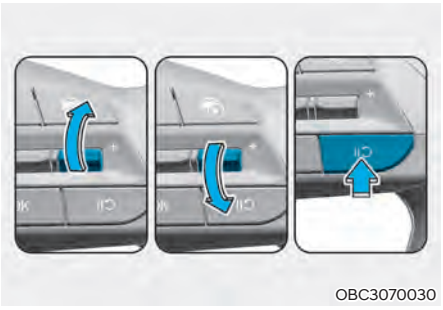
OBC3070029

Cruise Control will be paused when:

- Depressing the brake pedal.
- Pushing the II↺ button.
- Shifting the gear to N (Neutral).
- Decreasing vehicle speed to less than approximately 30 km/h (20 mph).
- ESC (Electronic Stability Control) is operating.
- Downshifting to the 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


OBC3070030

Push the +, - switch or II↺ 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 II↺ 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



OBC3070070

Press the Driving Assist ( ) button to turn Cruise Control off. The Cruise (CRUISE) indicator will go off.

Always press the Driving Assist ( ) button to turn Cruise Control off when not in use.

Information

If your vehicle is equipped with Manual Speed Limit Assist, press and hold the Driving Assist button to turn off Cruise Control. However, Manual Speed Limit Assist will turn on.

WARNING

Take the following precautions when using Cruise Control:

- **Always set the vehicle speed to the speed limit in your country.**
- **Keep Cruise Control off when the function 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.**

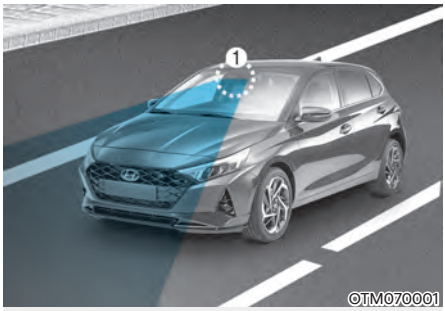
SMART CRUISE CONTROL (SCC) (IF EQUIPPED)

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 function judges that the driver is determined to overtake the vehicle in front, acceleration will be assisted.

Detecting sensor







[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.

Smart Cruise Control settings

Setting features



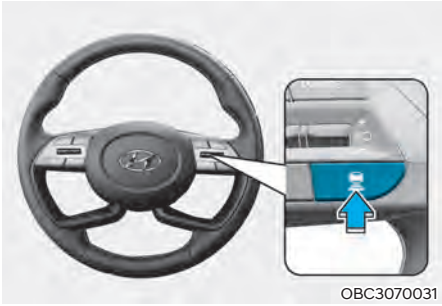
OBC3070022

To turn on Smart Cruise Control

- Press the Driving Assist button to turn on the function. The speed will be set to the current speed on the cluster.
- If there is no vehicle in front of you, the set speed will be maintained, but if there is a vehicle in front of you, the speed may decrease to maintain the distance to the vehicle ahead. If the vehicle ahead accelerates, your vehicle will travel at a steady cruising speed after accelerating to the set speed.

Information

If your vehicle speed is between 10~ 30 km/h (5~ 20 mph) when you press the Driving Assist button, the Smart Cruise Control speed will be set to 30 km/h (20 mph).


OBC3070031

To set vehicle distance

Each time the button is pressed, the vehicle distance changes as follows:

Distance 4 → Distance 3 → Distance 2
↑ ↓
Distance 1 ←

Information

- **If you drive at 90 km/h (56 mph), the distance is maintained as follows:**

  Distance 4 -
  approximately 53 m (172 ft.)

  Distance 3 -
  approximately 40 m (130 ft.)

  Distance 2 -
  approximately 30 m (106 ft.)

  Distance 1 -
  approximately 25 m (82 ft.)

- **The distance is set to the last set distance when the engine is restarted, or when the function was temporarily canceled.**


OBC3070071

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

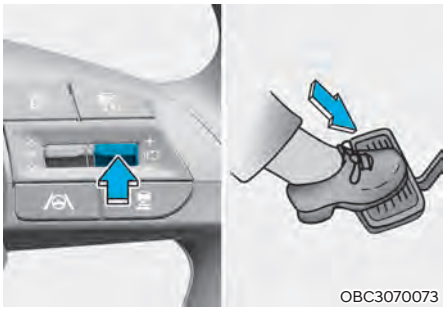
Check the driving condition before using the + switch. Driving speed may sharply increase when you push up and hold the + switch.


OBC3070072

To decrease speed

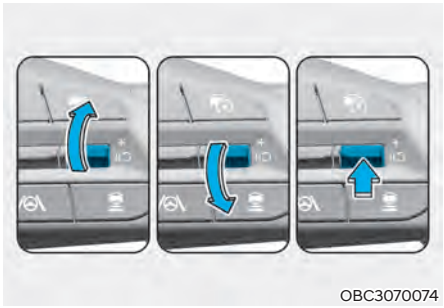
- Push the - switch down and release it immediately. The cruising speed will decrease by 1 km/h (1 mph) each time the switch is operated in this manner.
- Push the - switch down and hold it while monitoring the set speed on the cluster. The cruising speed will decrease by 10 km/h or 5 mph each time the 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).


OBC3070073

To temporarily cancel Smart Cruise Control

Press the II↺ switch or depress the brake pedal to temporarily cancel Smart Cruise Control.


OBC3070074

To resume Smart Cruise Control

To resume Smart Cruise Control after the function was canceled, push the +, - or II↺ 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 II↺ switch, vehicle speed will resume to the preset speed.

WARNING

Check the driving condition before using the II↺ switch. Driving speed may sharply increase or decrease when you press the II↺ switch.



OBC3070022

To turn off Smart Cruise Control

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.

Based on DRIVE MODE

Smart Cruise Control will change acceleration based on the drive mode selected from Drive Mode Integrated Control system. Refer to the following chart.

Drive mode	Smart Cruise Comtrol
COMFORT	Normal
ECO	Slow
SPORT	Fast

Information

For more details on drive mode, refer to "Drive Mode Integrated Control System" section in chapter 6.

■ Type A



OTM070141L

■ Type B



ONX4E070090

Warning volume

With the engine on, select 'Driver assistance → Warning volume' from the Settings menu to change the Warning Volume 'High', 'Medium' , 'Low', or 'Off (if steering wheel vibration function equipped) for Smart Cruise Control.

However, even if 'Off' is selected, the Warning Volume of Smart Cruise Control 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.

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
- Parking brake is not applied
- Your vehicle speed is within the operating speed range:
- 10~180 km/h (5-110 mph)
- 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

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 countries 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 function.

■ “Driving Assist” screen unselected



OBC3070033

■ "Driving Assist" screen selected



OBC3070034

• 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

■ “Driving Assist” screen unselected



OBC3070033

■ "Driving Assist" screen selected



OBC3070035

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



OTM070113L

Smart Cruise Control will be temporarily canceled automatically when:

- The vehicle speed is above 190 km/h (120 mph)
- The vehicle speed is below 10 km/h (5 mph)
- 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 ‘SCC (Smart Cruise Control) cancelled’ warning message will appear on the cluster, and an audible warning will sound to warn the driver.

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



OTM070112L

If the Driving Assist button, + switch, - switch or switch is pushed when the function's operating conditions are not satisfied, the 'SCC (Smart Cruise Ctrl.) conditions not met' will appear on the cluster, and an audible warning will sound.

Warning road conditions ahead



OBC3070036

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



OBC3070002

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 function 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.**

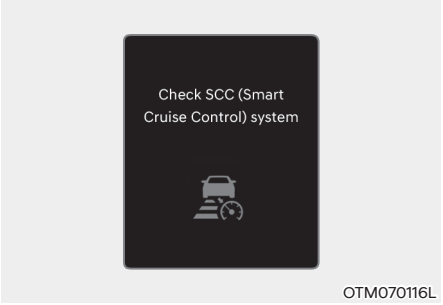
- **Smart Cruise Control may not operate normally if interfered by strong electromagnetic waves.**
- **Smart Cruise Control may not detect an obstacle in front and lead to a collision. Always look ahead cautiously to prevent unexpected and sudden situations from occurring.**
- **Vehicles moving in front of you with a frequent lane change may cause a delay in the function's reaction or may cause the function 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.**

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

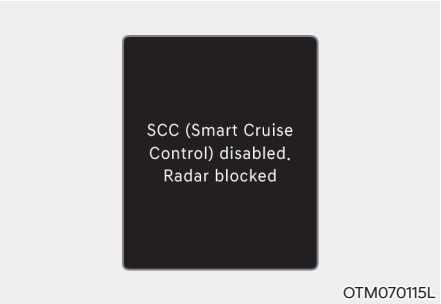
Smart Cruise Control malfunction



OTM070116L

When Smart Cruise Control is not working properly, the '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



OTM070115L

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 '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.**

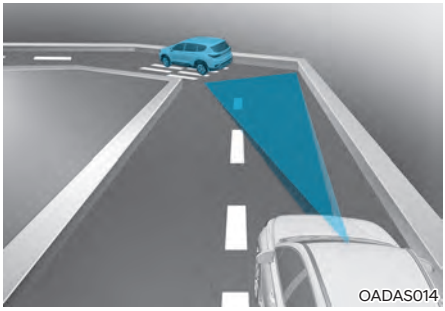
Limitations of Smart Cruise Control

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

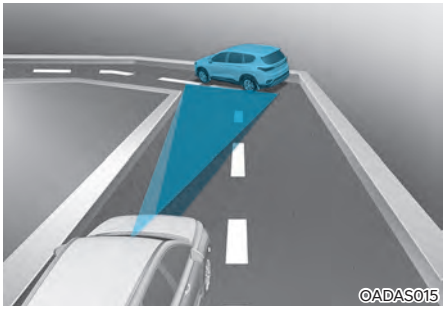
- Only part of the vehicle is detected
- The vehicle in front has no tail lights, tail lights are located unusually, etc.
- The brightness outside is low, and the tail lamps are not on or are not bright
- The rear of the front vehicle is small or does not look normal (i.e. tilted, overturned, etc.)
- 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 a obstacle
- The vehicle in front suddenly changes lane or suddenly reduces speed
- The vehicle in front is bent out of shape
- The front vehicle's speed is fast or slow
- With a vehicle in front, your vehicle changes lane at low speed
- The vehicle in front is covered with snow
- Unstable driving
- You are on a roundabout and the vehicle in front is not detected
- You are continuously driving in a circle
- Driving in a parking lot
- Driving through a construction area, unpaved road, partially 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.

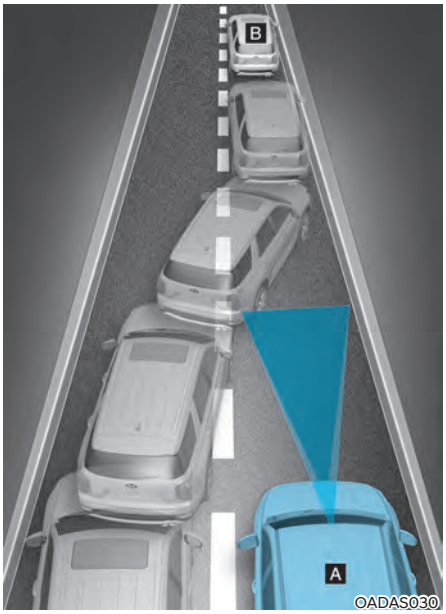
- Driving on a slope



During uphill or downhill driving, 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.

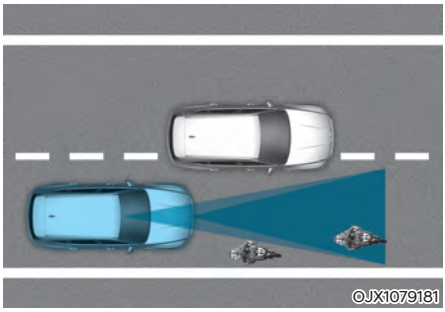
- Changing lanes



[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.

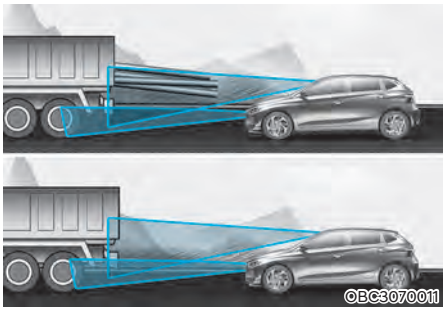
- Detecting vehicle



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

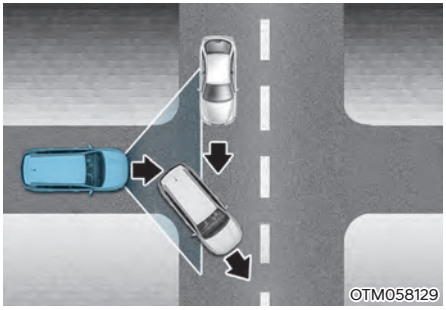
Adjust your vehicle speed by depressing the brake pedal according to the road and driving conditions ahead.



In the following cases, the vehicle in front cannot be detected by the sensor:

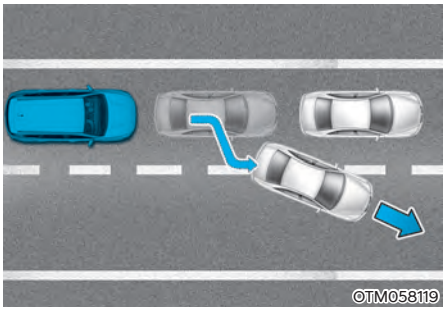
- Vehicles with higher ground clearance or vehicles carrying loads that stick out of the back of the vehicle
- Vehicles that has the front lifted due to heavy loads
- You are steering your vehicle
- Driving on narrow or sharply curved roads

Adjust your vehicle speed by depressing the brake pedal according to the road and driving conditions ahead.



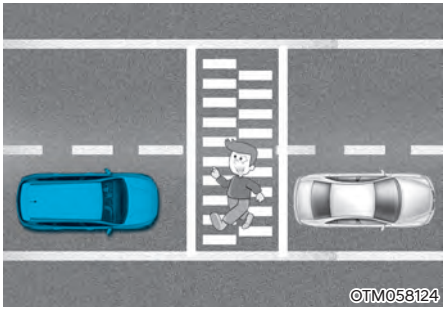
- When a vehicle ahead disappears at an intersection, your vehicle may accelerate.

  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 motorways by using road information from the navigation system while Smart Cruise Control is operating.

Information

- **Navigation-based Smart Cruise Control is available only on 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.**

Information

Navigation-based Smart Cruise Control operates on main roads of motorways, and does not operate on interchanges or junctions.

Highway Curve Zone Auto Slowdown

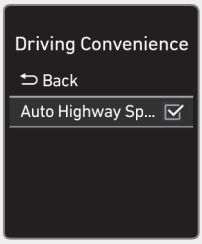
If vehicle speed is high, Highway Curve Zone Auto Slowdown function will temporarily decelerate your vehicle or limit acceleration to help you drive safely on a curve based on the curve information from the navigation.

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



OBC3070037

With the engine on, select 'Driver assistance → Driving convenience → Auto Highway speed control' from the Settings menu to turn on Navigation-based Smart Cruise Control and deselect to turn off the function.

Information

When there is a problem with Navigation-based Smart Cruise Control, the function cannot be set 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 motorways

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:

- Navigation-based Smart Cruise Control standby



OBC3070038

If the operating conditions are satisfied, the white AUTO indicator will illuminate.

- Navigation-based Smart Cruise Control operating



OBC3070039

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



OTM070198L

The '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**

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 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 motorway speed limit is matched.
- While Highway Set Speed Auto Change function is operating, when the motorway speed limit changes, Smart Cruise Control set speed automatically changes to the changed speed limit.
- If adjusted Smart Cruise Control set speed is different from the speed limit, 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 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.

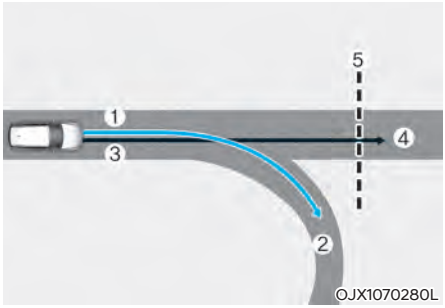
Information

- **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 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

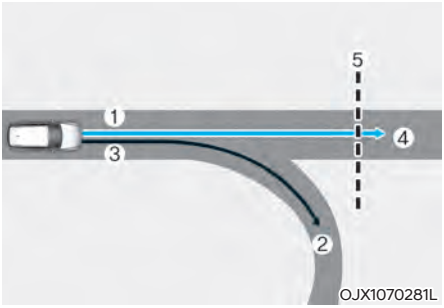
Navigation-based Smart Cruise Control may not operate normally under the following circumstances:

- 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 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



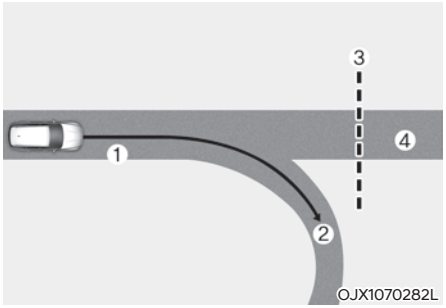
[1] : Set route, [2] : Branch line, [3] : Driving route, [4] : Main road, [5] : Curved road section

- 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 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 motorway, Navigation-based Smart Cruise Control will operate based on the first lane. If you enter one of the other lanes, the function 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 function 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.

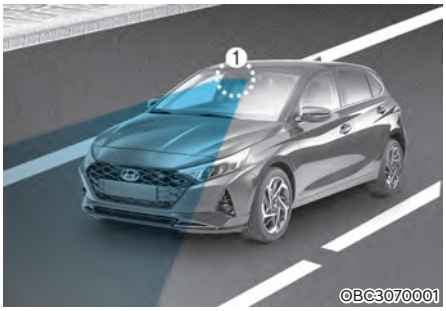
Information

- 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 function may operate for a certain period of time.
- Deceleration by Navigation-based Smart Cruise Control may feel it is not sufficient due to road conditions such as uneven road surfaces, narrow lanes, etc.

LANE FOLLOWING ASSIST (LFA) (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



[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 Lane Following Assist On/Off

With the engine on, shortly press the Lane Driving Assist button located on the steering wheel to turn on Lane Following Assist. The white or green indicator light will illuminate on the cluster.

Press the button again to turn off the function.

■ Type A



OTM070141L

■ Type B



ONX4E070090

Warning volume

With the engine on, select 'Driver Assistance → Warning Volume' from the Settings menu to change the Warning Volume to 'High', 'Medium', 'Low' or 'Off (if steering wheel vibration function equipped)' for Hands-off warning.

However, even if 'Off' is selected, the Hands-off Warning Volume 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.

Lane Following Assist operation

Warning and control

■ Type A



OBC3070040

■ Type B



OBC3070041

Lane Following Assist

If the vehicle ahead and/or both lane markings are detected and your vehicle speed is below 180 km/h (110 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.



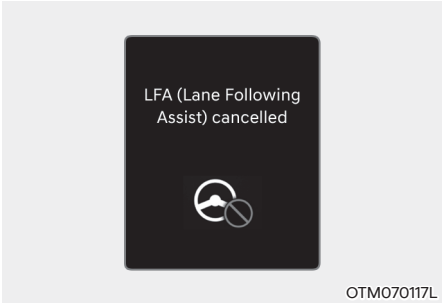
OBC3070015

Hands-off warning

If the driver takes their hands off the steering wheel for several seconds, the 'Keep hands on the steering wheel' warning message will appear and an audible warning will sound in stages.

First stage : Warning message

Second stage : Warning message (red steering wheel) and audible warning



OTM070117L

If the driver still does not have their hands on the steering wheel after the hands-off warning, the 'LFA (Lane Following Assist) cancelled' warning message will appear and Lane Following Assist will be automatically canceled.

WARNING

- **The steering wheel may not be assisted if the steering wheel is held very tight or the steering wheel is steered over a certain degree.**
- **Lane Following Assist does not operate at all times. It is the responsibility of the driver to safely steer the vehicle and to maintain the vehicle in its lane.**
- **The hands-off warning message may appear late depending on road conditions. Always have your hands on the steering wheel while driving.**
- **If the steering wheel is held very lightly, the hands-off warning message may appear because 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 are detected, the lane lines on the cluster will change from grey to white.**

■ Lane undetected



OBC3070017

■ Lane detected

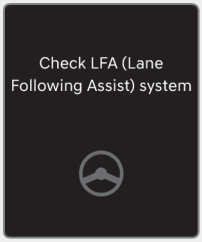


OBC3070016

- 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



OTM070118L

When Lane Following Assist is not working properly, the 'Check LFA (Lane Following Assist) system warning message will appear on the cluster for several seconds, and the master (⚠) warning light will illuminate on the cluster. If the master warning light illuminates, we recommend that the vehicle be inspected by an authorized HYUNDAI dealer.

Limitations of Lane Following Assist

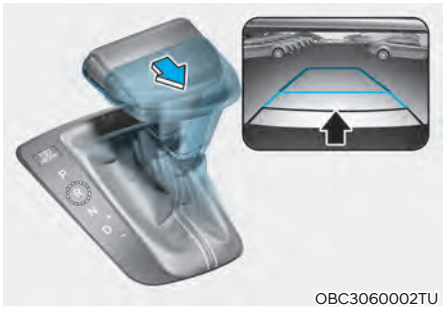
For more details on function limitations, refer to "Lane Keeping Assist (LKA)" section in chapter 7.

WARNING

For more details on the function precautions, refer to "Lane Keeping Assist (LKA)" section in chapter 7.

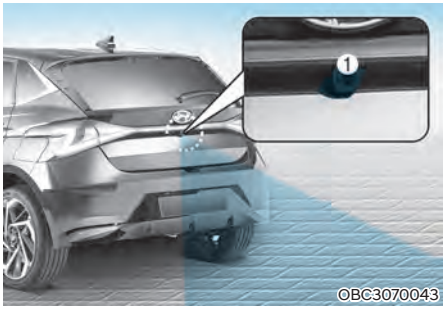
REAR VIEW MONITOR (RVM) (IF EQUIPPED)





Rear View Monitor will show the area behind the vehicle to assist you when parking or backing up.

Detecting sensor

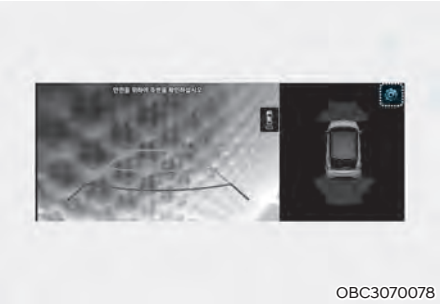


[1] : Rear view camera

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

Rear View Monitor settings

Camera settings (if equipped)



- You can change Rear View Monitor 'Display Contents' or 'Display Settings' by touching the setup icon (⚙) on the screen while Rear View Monitor is operating, or selecting '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', and in the Display Settings, you can change the screen's 'Brightness' and 'Contrast'.

Rear View Monitor settings

Operating button



Parking/View button

Press the Parking/View button (1) to turn on Rear View Monitor.

Press the button again to turn off the function.

Rear view

Operating conditions

- Shift the gear to R (Reverse), the image will appear on the screen.
- Press the Parking/View button (1) while the gear is in P (Park), the image will appear on the screen.

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.

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 the 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 (1) 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 (1) again, the rear view while driving will turn off.
- Press one of the infotainment system button (2), the rear view while driving 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 Rear view while driving is displayed on the screen, the screen will change to rear view with parking guidance.
- When Rear view while driving 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, 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

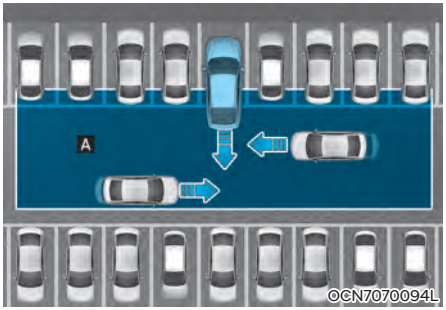
When the vehicle is stopped for a long time in winter or when the vehicle is parked in an indoor parking lot, the exhaust fumes may temporarily blur the image.

WARNING

- **The rear view camera does not cover the complete area behind the vehicle. The driver should always check the rear area directly through the inside and 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.**

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



[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



OTM070194L

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 function.

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.

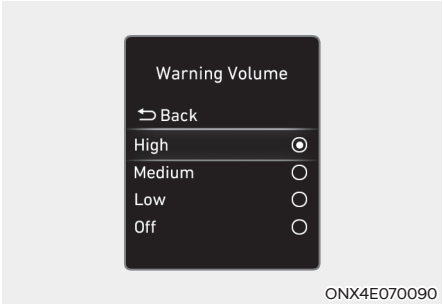


OTM070140L

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.



ONX4E070090

Warning volume

With the engine on, select 'Driver Assistance → Warning Volume' from the Settings menu to change the Warning Volume to 'High', 'Medium', 'Low' or 'Off (if steering wheel vibration function equipped)' for Rear Cross-Traffic Safety system.

However, when Warning Volume is turned off, the steering wheel vibration function (if equipped) will turn on if it was turned off.

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 approach 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.

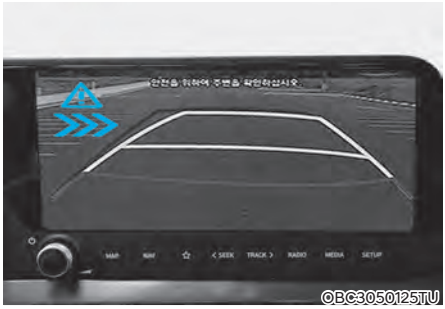
Rear Cross-Traffic Collision Warning operation

Warning

Rear Cross-Traffic Safety system will warn the driver when a collision is imminent.


ORG3070025


OBC3070046TU


OBC3050125TU

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 and the steering wheel will vibrate (if equipped). 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)
  - The 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).

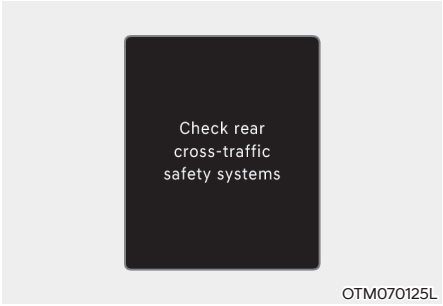
WARNING

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.**

Rear Cross-Traffic Collision Warning Assist malfunction and limitations

Rear Cross-Traffic Collision Warning Assist malfunction



OTM070125L

When Rear Cross-Traffic Safety system is not working properly, the 'Check rear cross-traffic safety systems' 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.



OTM070100L

When the outside rearview mirror warning light is not working properly, the 'Check outside mirror warning icon' warning message will appear on the cluster. for several seconds, and the master (⚠) warning light will illuminate on the cluster. If the master warning light illuminates, we recommend that the vehicle be inspected by an authorized HYUNDAI dealer.

Rear Cross-Traffic Collision Warning Assist disabled



OTM070124L

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 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 Assist

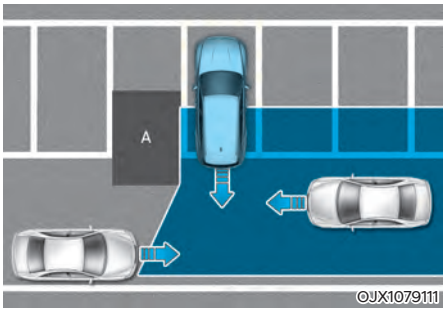
Rear Cross-Traffic Safety system may not operate normally, or the function may operate unexpectedly under the following circumstances:

- 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**

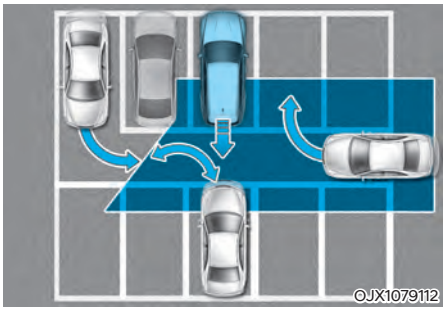


[A] : Structure

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 function may not warn the driver when necessary.

Always check your surroundings while backing up.

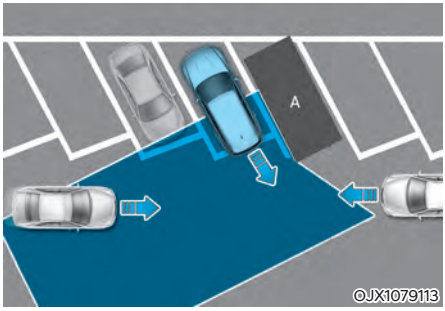
- **When the vehicle is in a complex parking environment**



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 function may unnecessarily warn the driver.

Always check your surroundings while backing up.

- **When the vehicle is parked diagonally**

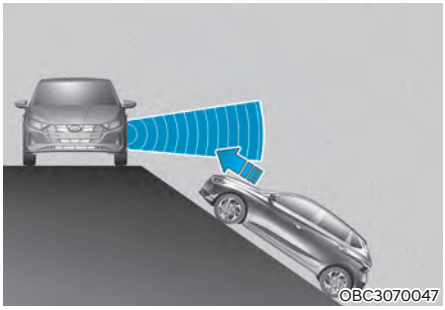


[A] : Vehicle

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 function may not warn the driver when necessary.

Always check your surroundings while backing up.

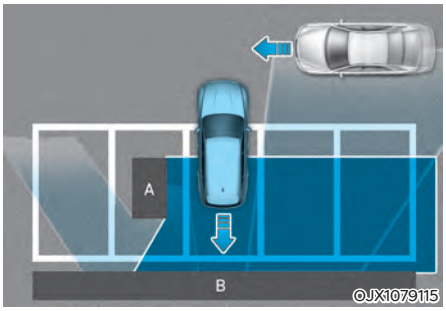
- **When the vehicle is on or near a slope**



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 function may not warn the driver when necessary.

Always check your surroundings while backing up.

- **Pulling into the parking space where there is a structure**

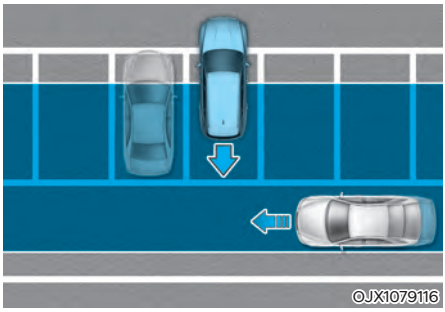


[A] : Structure, [B] :Wall

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 function 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 function may unnecessarily warn the driver.

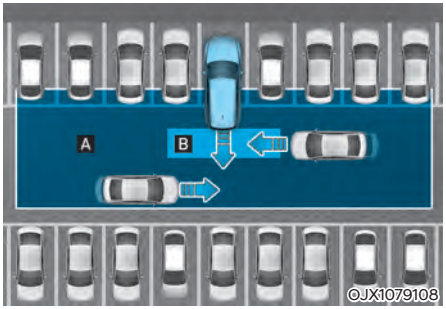
Always check your surroundings while backing up.

WARNING

- **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.

Information

In the following text, Rear Cross-Traffic Collision Warning and Rear Cross-Traffic Collision-Avoidance Assist will be referred as Rear Cross-Traffic Safety system.

Detecting sensor



[1] : Rear corner radar

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

CAUTION

For more details on the precautions of the rear corner radar, refer to “Blind-Spot Collision-Avoidance Assist (BCA)” section in chapter 7.

Rear Cross-Traffic Collision-Avoidance Assist settings

Setting features



OTM070194L

Rear cross-traffic safety

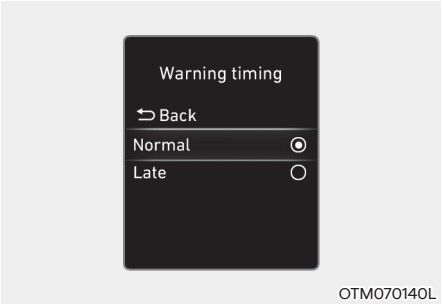
With the engine on, select 'Driver assistance → Parking safety → Rear cross-traffic safety' from the Settings menu to turn on Rear Cross-Traffic Safety system and deselect to turn off the function.

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.

Information

Settings for Rear Cross-Traffic Safety system include Rear Cross-Traffic Collision Warning and Rear Cross-Traffic Collision-Avoidance Assist.



OTM070140L

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.

■ Type A



OTM070141L

■ Type B



ONX4E070090

Warning volume

With the engine on, select 'Driver Assistance → Warning Volume' from the Settings menu to change the Warning Volume to 'High', 'Medium', 'Low' or 'Off (if steering wheel vibration function equipped)' for Rear Cross-Traffic Safety system.

However, when Warning Volume is turned off, the steering wheel vibration function (if equipped) will turn on if it was turned off.

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 approach 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 Assist operation

Warning and control

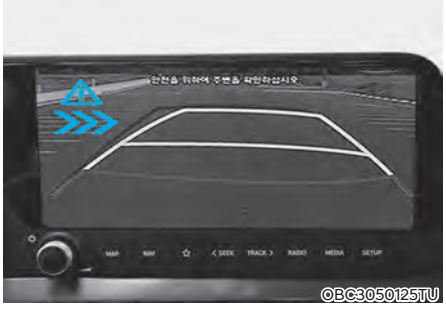
Rear Cross-Traffic Safety system will warn and control the vehicle depending on collision level: 'Collision Warning', 'Emergency Braking' and 'Stopping vehicle and ending brake control'.



ORG3070025



OBC3070046TU



OBC3050125TU

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 and the steering wheel will vibrate (if equipped). 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

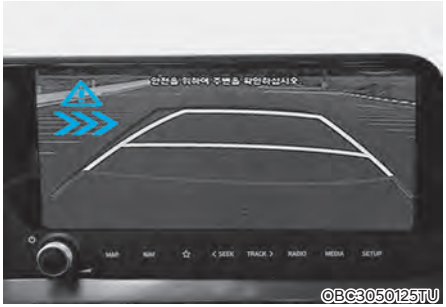
If the operating conditions are satisfied, there will be a warning whenever the vehicle approaches from the left or right side even though your vehicle speed is 0 km/h (0 mph).



ORG3070025



OBC3070077



OBC3050125TU

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 and the steering wheel will vibrate (if equipped). 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 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**



OBC3070004

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 the system will automatically cancel when the driver excessively depresses the brake pedal.

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 not operate if the driver applies the brake pedal to avoid collision.**
- **During Rear Cross-Traffic Safety system 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 Safety system, the vehicle's basic braking performance will operate normally.**
- **Rear Cross-Traffic Safety system does not operate in all situations or cannot avoid all collisions.**
- **During emergency braking, braking control by the function will automatically cancel when the driver excessively depresses the accelerator pedal.**

- **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.**
- **Never deliberately operate Rear Cross-Traffic Safety system 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**

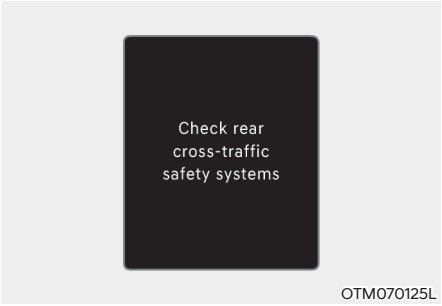
Information

If the system assists you with braking, the driver 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



OTM070125L

When Rear Cross-Traffic Safety system is not working properly, the 'Check rear cross-traffic safety systems' 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.



OTM070100L

When the outside rearview mirror warning light is not working properly, the 'Check outside mirror warning icon' warning message will appear on the cluster. for several seconds, and the master (⚠) warning light will illuminate on the cluster. If the master warning light illuminates, we recommend that the vehicle be inspected by an authorized HYUNDAI dealer.

Rear Cross-Traffic Collision-Avoidance Assist disabled



OTM070124L

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 Safety system.

If this occurs, the '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-Avoidance Assist

Rear Cross-Traffic Safety system may not operate normally, or the function 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:

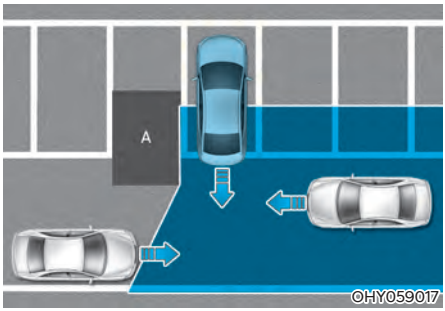
- The vehicle severely vibrates while driving over a bumpy road, uneven road or concrete patch
- Driving on a slippery surface due to snow, water puddle, ice, etc.
- The tire pressure is low or a tire is damaged
- The brake is reworked
- Parking Assist is operating (if equipped)

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**

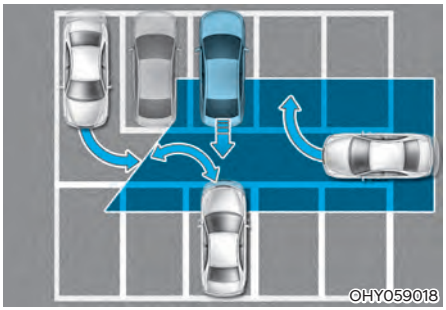


[A] : Structure

Rear Cross-Traffic 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 function may not warn the driver or control the brakes when necessary.

Always check your surroundings while backing up.

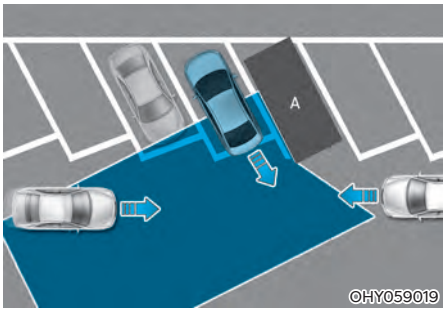
- **When the vehicle is in a complex parking environment**



Rear Cross-Traffic 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 function may unnecessarily warn the driver and control the brake.

Always check your surroundings while backing up.

- **When the vehicle is parked diagonally**

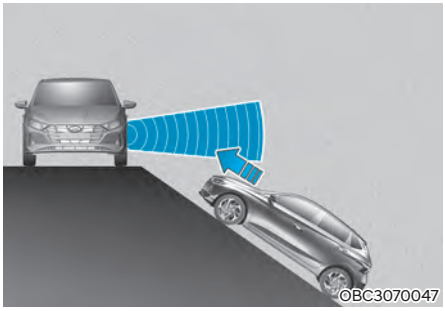


[A] : Vehicle

Rear Cross-Traffic 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 function may not warn the driver or control the brakes when necessary.

Always check your surroundings while backing up.

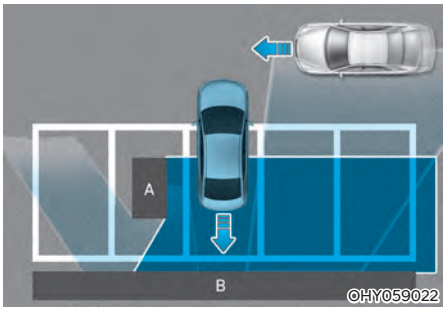
- **When the vehicle is on or near a slope**



Rear Cross-Traffic Safety system may be limited when the vehicle is on a uphill or downhill slope, or near it, and may not detect the vehicle approaching from the left or right. If this occurs, the function may not warn the driver or control the brakes when necessary.

Always check your surroundings while backing up.

- **Pulling into the parking space where there is a structure**

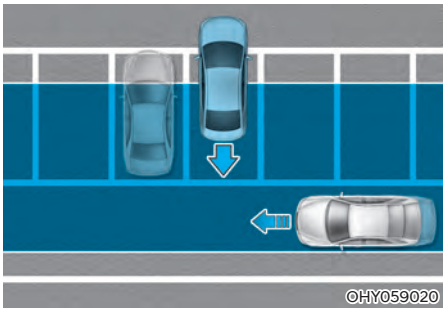


[A] : Structure, [B] :Wall

Rear Cross-Traffic 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 function may unnecessarily warn the driver and control the brake.

Always check your surroundings while backing up.

- **When the vehicle is parked rearward**



Rear Cross-Traffic Safety system may detect vehicles passing by behind you when parking in reverse into a parking space. If this occurs, the function may unnecessarily warn the driver and control the brake.

Always check your surroundings while backing up.

WARNING

- **When you are towing a trailer or 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.**

REVERSE PARKING DISTANCE WARNING (PDW)

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



[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', 'Low', or 'Off (if steering wheel vibration function equipped)' for Reverse Parking Distance Warning.

However, even if 'Off' is selected, the system's Warning Volume 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

- Press the Parking Distance Warning Off ( ) button to turn off Reverse Parking Distance Warning. Press the button again to turn on the function.
- When Reverse Parking Distance Warning is off (button indicator light on), if you shift the gear to R (Reverse), the function will automatically turn on.

Reverse Parking Distance Warning

- Reverse Parking Distance Warning will operate when the gear is in R (Reverse).
- Reverse Parking Distance Warning 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	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 function is operating normally.

However, if one or more of the following occurs, first check whether the ultrasonic sensor is damaged or blocked with foreign material. If it still does not work properly, we recommend that the 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.



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WARNING

- **Reverse Parking Distance Warning is a supplemental system. 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 rear view before and while parking.**
- **Your new vehicle warranty does not cover any accidents or damage to the vehicle due to the malfunction of Reverse Parking Distance Warning.**
- **Pay close attention when driving near objects, pedestrians, and especially children. Some objects may not be detected by the ultrasonic sensors, due to 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
  - Attaching equipments or accessories around the ultrasonic sensors
- The following objects may not be detected:
  - Sharp or slim objects, such as ropes, chains or small poles.
  - Objects, which tend to absorb sensor frequency, such as clothes, spongy material or snow.
  - Objects smaller than 100 cm (40 in.) in length and narrower than 14 cm (6 in.) in diameter.
  - Pedestrians, animals or objects that are very close to the ultrasonic sensors
- 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)

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





[1] : Front ultrasonic sensors,
[2] : Rear ultrasonic sensors

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

Forward/Reverse Parking Distance Warning settings

Warning Volume

Select ‘Driver assistance → Warning volume’ from the cluster or infotainment system Settings menu to change the Warning volume to ‘High’, ‘Medium’, ‘Low’, or ‘Off (if steering wheel vibration function equipped)’ for Forward/Reverse Parking Distance Warning.

However, even if ‘Off’ is selected, the system's Warning Volume 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).

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 function will not turn on.

Distance from object	Warning indicator	Warning sound
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
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 function is operating normally.

However, if one or more of the following occurs, first check whether the ultrasonic sensor is damaged or blocked with foreign material. If it still does not work properly, we recommend that the 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.



OBC3070058

WARNING

- **Forward/Reverse Parking Distance Warning is a supplemental system. 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 due to the malfunction of Forward/Reverse Parking Distance Warning.**
- **Pay close attention when driving near objects, pedestrians, and especially children. Some objects may not be detected by the ultrasonic sensors, due to the objects distance, size or material, all of which can limit the effectiveness of the sensor.**

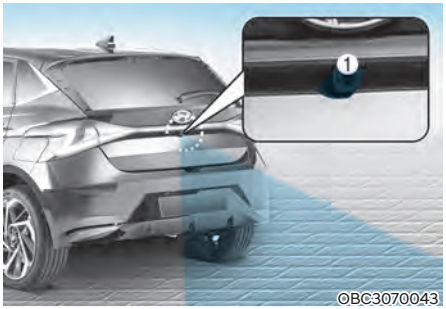
Limitations of Forward/Reverse Parking Distance Warning

- 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 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
- 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
  - Attaching equipments or accessories around the ultrasonic sensors
- The following objects may not be detected:
  - Sharp or slim objects, such as ropes, chains or small poles.
  - Objects, which tend to absorb sensor frequency, such as clothes, spongy material or snow.
  - Objects smaller than 100 cm (40 in.) in length and narrower than 14 cm (6 in.) in diameter.
  - Pedestrians, animals or objects that are very close to the ultrasonic sensors
- 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.

REVERSE PARKING COLLISION-AVOIDANCE ASSIST (PCA) (IF EQUIPPED)

Reverse Parking Collision-Avoidance Assist will warn the driver or will assist with braking to help reduce the possibility of collision with a pedestrian or an object when backing up.

Detecting sensor





[1] : Rear view camera,
[2] : Rear ultrasonic sensors

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

Reverse Parking Collision-Avoidance Assist settings

Setting features



Parking Safety

With the engine on, select or deselect 'Driver assistance → Parking 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 and assist with braking when a collision with a pedestrian or an object is imminent.
- If 'Warning only' is selected, the function will warn the driver when a collision with a pedestrian or an object is imminent. Braking will not be assisted.
- If 'Off' is selected, the function will turn off.
- If the engine is restarted, the setting 'Rear Active Assist' (or 'Active rear assist') is automatically selected.



OBC3070117TU

Warning timing

With the engine on, select ‘Driver assistance → Warning timing’ from the Settings menu to change the initial warning activation time for Reverse Parking Collision-Avoidance Assist.

When the vehicle is first delivered, Warning timing is set to ‘Normal’. If 'Normal' feels sensitive, change the settings to Late.

If you change the Warning timing, the warning time of other Driver Assistance systems may change.



OBC3070115TU

Warning volume

With the engine on, select ‘Driver assistance → Warning volume’ from the Settings menu to change the Warning volume to ‘High’, ‘Medium’ ‘Low’, or ‘Off (if steering wheel vibration function equipped)’ for Reverse Parking Collision-Avoidance Assist.

However, even if ‘Off’ is selected, the system's Warning Volume 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 Collision-Avoidance Assist operation

Operating conditions

If 'Active assist' or 'Warning only' is set from the Settings menu, Reverse Parking Collision-Avoidance Assist will be in the ready status when the following conditions are satisfied:

- The tailgate is closed
- The gear is shifted to R (Reverse)
- The vehicle is below 10 km/h (6 mph)
- Function components such as the rear view camera and the rear ultrasonic sensors are in normal conditions

When Reverse Parking Collision-Avoidance Assist activates, a line appears behind the vehicle image in the instrument cluster.

Reverse Parking Collision-Avoidance Assist operates only once after the gear is shifted to R (Reverse). To reactivate Reverse Parking Collision-Avoidance Assist, shift the gear from another gear to R (Reverse).



OBC3070113TU

Active assist

- If the function detects a risk of collision with a pedestrian or an object, the function will warn the driver with an audible warning, steering wheel vibration (if equipped) and warning message on the cluster. When Rear View Monitor is operating, a warning will appear on the infotainment system screen.
- If the function detects an imminent collision with a pedestrian or an object behind the vehicle, the function will assist 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 gear is shifted to P (Park) or D (Drive).
  - The driver depresses the brake pedal with sufficient power
  - Braking assist has last for approximately 2 seconds
- The warning will turn off when:
  - The driver shifts the gear to P (Park), N (Neutral) or D (Drive)
- 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

Warning Only

- If the function detects a risk of collision with a pedestrian or an object, the function will warn the driver with an audible warning, steering wheel vibration (if equipped) and warning message on the cluster. When Rear View Monitor is operating, a warning will appear on the infotainment system screen.
- If 'Warning only' is selected, braking will not be assisted.
- The warning will turn off when the gear is shifted to P (Park), N (Neutral) or D (Drive).

Reverse Parking Collision-Avoidance Assist malfunction and limitations

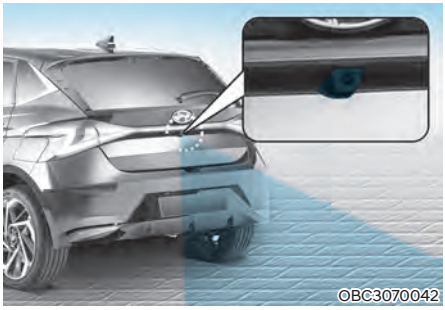
Reverse Parking Collision-Avoidance Assist malfunction



OBC3070058

When Reverse Parking Collision-Avoidance Assist or other related systems are not working properly, the 'Check Parking Safety system' warning message will appear on the cluster, and the function will turn off automatically. We recommend that the function be inspected by an authorized HYUNDAI dealer.

Reverse Parking Collision-Avoidance Assist disabled

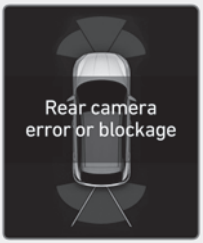

OBC3070042

The rear view camera is used as a detecting sensor to detect pedestrians. If the camera lens is covered with foreign material such as snow or rain, it may adversely affect camera performance and Reverse Parking Collision-Avoidance Assist may not operate normally. Always keep the camera lens clean.


OBC3070060

The rear ultrasonic sensors are located inside the rear bumper to detect objects in the rear area. If the sensors are covered with foreign material, such as snow or rain, it may adversely affect sensor performance and Reverse Parking Collision-Avoidance Assist may not operate normally. Always keep the rear bumper clean.

■ Rear view camera



OBC3070061

■ Rear ultrasonic sensor



OBC3070058

The 'Rear camera error or blockage' or 'Parking sensor error or blockage' warning message will appear on the cluster if the following situations occur:

- The rear view camera is covered with foreign material, such as snow or rain, etc.
- There is inclement weather, such as heavy snow, heavy rain, etc.

If this occurs, Reverse Parking Collision-Avoidance Assist may turn off or may not operate properly. Check whether the rear view camera and rear ultrasonic sensors are clean.

Limitations of Reverse Parking Collision-Avoidance Assist

Reverse Parking Collision-Avoidance Assist may not assist braking or warn the driver even if there are pedestrians or objects under the following circumstances:

- Any non-factory equipment or accessory is installed
- Your vehicle is unstable due to an accident or other causes
- Bumper height or rear ultrasonic sensor installation has been modified
- Rear view camera or rear ultrasonic sensor(s) is damaged
- Rear view camera or the rear ultrasonic sensor(s) is stained with foreign material, such as snow, dirt, etc.
- Rear view camera is obscured by a light source or by inclement weather, such as heavy rain, fog, snow, etc.
- The surrounding is very bright or very dark
- Outside temperature is very high or very low
- The wind is either strong (above 20 km/h (12 mph)) or blowing perpendicular to the rear bumper
- Objects generating excessive noise, such as vehicle horns, loud motorcycle engines or truck air brakes, are near your vehicle
- An ultrasonic sensor with similar frequency is near your vehicle
- There is ground height difference between the vehicle and the pedestrian
- The image of the pedestrian in the rear view camera is indistinguishable from the background

- The pedestrian is near the rear edge of the vehicle
- The pedestrian is not standing upright
- The pedestrian is either very short or very tall for the function to detect
- The pedestrian or cyclist is wearing clothing that easily blends into the background, making it difficult to detect
- The pedestrian is wearing clothing that does not reflect ultrasonic waves well
- Size, thickness, height, or shape of the object does not reflect ultrasonic waves well (e.g., pole, bush, curbs, carts, edge of a wall, etc.)
- The pedestrian or the object is moving
- The pedestrian or the object is very close to the rear of the vehicle
- A wall is behind the pedestrian or the object
- The object is not located at the rear center of your vehicle
- The object is not parallel to the rear bumper
- The road is slippery or inclined
- The driver backs up the vehicle immediately after shifting to R (Reverse)
- The driver accelerates or circles the vehicle

Reverse Parking Collision-Avoidance Assist may unnecessarily warn the driver or assist with braking even if there are no pedestrians or objects under the following circumstances:

- Any non-factory equipment or accessory is installed
- Your vehicle is unstable due to an accident or other causes
- Bumper height or rear ultrasonic sensor installation has been modified
- Your vehicle height is low or high due to heavy loads, abnormal tire pressure, etc.
- Rear view camera or the rear ultrasonic sensor(s) is stained with foreign material, such as snow, dirt, etc.
- The pattern on the road is mistaken for a pedestrian
- There is shadow or light reflecting on the ground
- Pedestrians or objects are around the path of the vehicle
- Objects generating excessive noise, such as vehicle horns, loud motorcycle engines or truck air brakes, are near your vehicle
- Your vehicle is backing towards a narrow passage or parking space
- Your vehicle is backing towards an uneven road surface, such as an unpaved road, gravel, bump, gradient, etc.
- A trailer or carrier is installed on the rear of your vehicle
- An ultrasonic sensor with similar frequency is near your vehicle

WARNING

Take the following precautions when using Reverse Parking Collision-Avoidance Assist:

- **Always pay extreme caution while driving. The driver is responsible for controlling the brake for safe driving.**
- **Always pay attention to road and traffic conditions while driving, whether or not there is a warning.**
- **Always look around your vehicle to make sure there are no pedestrians or objects before moving the vehicle.**
- **The performance of Reverse Parking Collision-Avoidance Assist may vary under certain conditions. If the vehicle speed is above 4 km/h (2 mph), the function will provide collision avoidance assist only when pedestrians are detected. Always look around and pay attention when backing up your vehicle.**
- **Some objects may not be detected by the rear ultrasonic sensors due to the objects distance, size or material, all of which can limit the effectiveness of the sensor.**
- **Reverse Parking Collision-Avoidance Assist may not operate properly or may operate unnecessarily depending on the road conditions and the surroundings.**
- **Do not solely rely on the function. Doing so may lead to vehicle damage or injuries.**

CAUTION

- **Noise may be heard when sudden braking occurs to avoid a collision.**
- **If any other warning sound such as the seat belt warning chime is already generated, Reverse Parking Collision-Avoidance Assist warning may not sound.**
- **The function may not work properly if the bumper has been damaged, replaced or repaired.**
- **Reverse Parking Collision-Avoidance Assist may not operate normally if interfered by strong electromagnetic waves.**
- **Playing the vehicle audio system at high volume may prevent passengers from hearing Reverse Parking Collision-Avoidance Assist warning sounds.**
- **Turn off Reverse Parking Collision-Avoidance Assist when towing a trailer. If towing and moving in reverse, Reverse Parking Collision-Avoidance Assist will activate as it detects the trailer.**

CAUTION

Take the following precautions to maintain optimal performance of the detecting sensors:

- **Always keep the rear view camera and rear ultrasonic sensors clean.**
- **Do not use any cleanser containing acid or alkaline detergents when cleaning the rear view camera lens. Use only a mild soap or neutral detergent, and rinse thoroughly with water.**
- **Do not spray the rear view camera or the rear ultrasonic sensors or their surrounding area directly with a high pressure washer. It may cause the rear view camera or the rear ultrasonic sensors to malfunction.**
- **Do not apply objects, such as a bumper sticker or a bumper guard, near the rear view camera or rear ultrasonic sensors or apply paint to the bumper. Doing so may adversely affect the performance of the function.**
- **Never disassemble or apply impact on the rear view camera or the rear ultrasonic sensors components.**
- **Do not apply unnecessary force on the rear view camera or the rear ultrasonic sensors. The function may not operate properly if the rear view camera or the rear ultrasonic sensor(s) is forcibly moved out of proper alignment. We recommend that the vehicle be inspected by an authorized HYUNDAI dealer.**

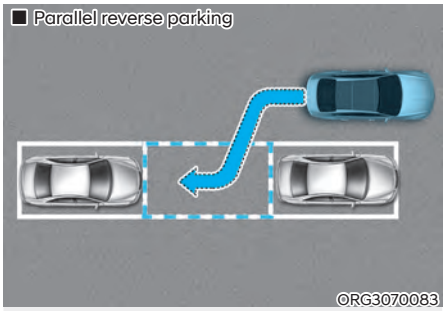
Information

Reverse Parking Collision-Avoidance Assist can detect a pedestrian or an object when:

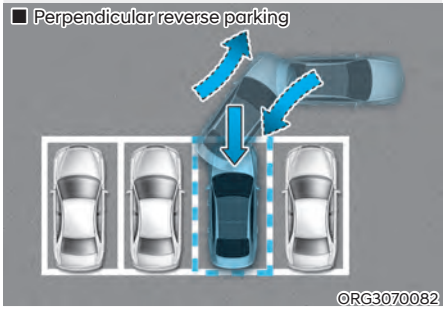
- **A pedestrian is standing behind the vehicle**
- **A large obstacle, such as a vehicle, is parked in the rear center of your vehicle**

PARKING ASSIST (PA) (IF EQUIPPED)

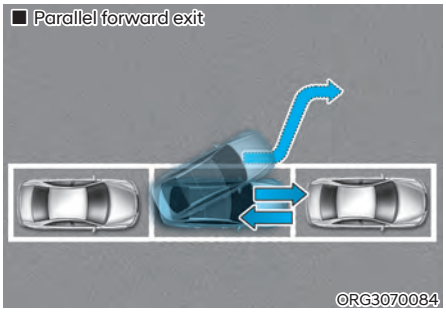
■ Parallel reverse parking



■ Perpendicular reverse parking

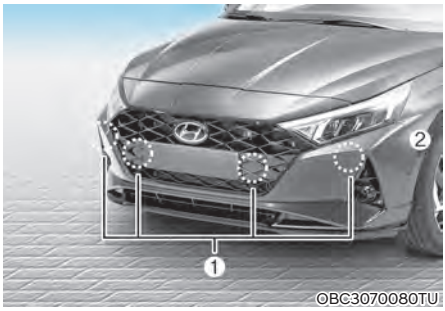


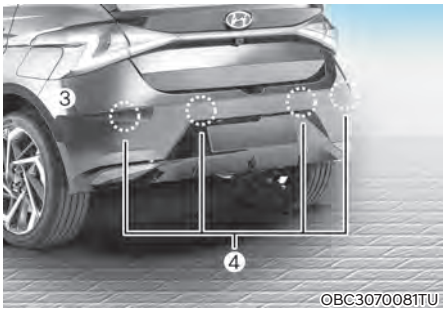
■ Parallel forward exit



- Parking Assist helps the driver with perpendicular reverse parking and parallel reverse parking, and when leaving the parking space, parallel forward exit is assisted.
- When Parking Assist operates, Parking Distance Warning will also operate. For more details, refer to “Parking Distance Warning (PDW)” sections in chapter 7.

Detecting sensor





[1] : Front ultrasonic sensors,
[2] : Front side ultrasonic sensors,
[3] : Rear side ultrasonic sensors,
[4] : Rear ultrasonic sensors

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

CAUTION

Take the following precautions to maintain optimal performance of the detecting sensors:

- **Never disassemble the detecting sensor or sensor assembly, or apply any impact on it.**
- **If the detecting sensor needs to be replaced or repaired, we recommend that you have your vehicle inspected by an authorized HYUNDAI dealer.**
- **Parking Assist may malfunction if the vehicle bumper height or ultrasonic sensor installation has been modified or damaged. Any non-factory installed equipment or accessories may also interfere with the sensor performance.**
- **When the ultrasonic sensor is frozen or stained with snow, dirt, or water, the sensor may be not operate until the stains are removed using a soft cloth.**
- **Do not push, scratch or strike the ultrasonic sensor. Sensor damage could occur.**
- **Do not spray the ultrasonic sensors or its surrounding area directly with a high pressure washer.**

Parking Assist settings

Setting features



OBC3070115TU

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 Parking Assist.

If you change the Warning volume, the Warning volume of other Driver Assistance systems may change.

Parking Assist operation

Operating button

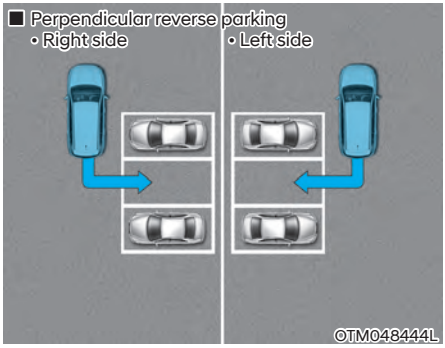
Parking/View button

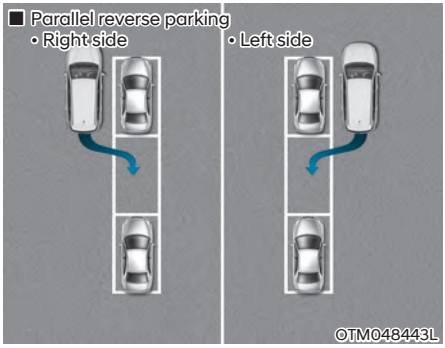


OBC3070044

Name	Description
Parking/ View button ( )	Press and hold the Parking/View button to turn on Parking Assist. Also, Forward/ Reverse Parking Distance warning will automatically turn on.
Parking Safety button ( )	Press the Parking Safety button while Parking Assist is operating to end function operation.

Parking mode





Use Parking mode when the following conditions are satisfied.

- Parking space is straight
- Parallel reverse parking or perpendicular reverse parking is required
- There is a parked vehicle near the parking space
- There is enough space to move the vehicle

Operating order

Parking mode operates in the following order:

1. Getting ready for parking
2. Selecting parking mode and type
3. Searching for parking space
4. Recognizing parking space
5. Search complete
6. Steering wheel control
7. Parking complete

- Parking Assist will help you with parallel reverse parking or perpendicular reverse.



1. Getting ready for parking

(1) With the engine turned on, depress the brake pedal and shift the gear to D (Drive).
- If the vehicle is driven above 5 km/h (3 mph) after the engine is turned on, Parking mode can be selected when the gear is in N (Neutral)

(2) Press and hold the Parking/View (P) button to turn on Parking Assist. A message will appear on the cluster and the Parking Safety button indicator light will illuminate.

- If the engine is turned on when the gear is in N (Neutral), Exit mode will be selected. Parking mode will be selected automatically after the vehicle has been driven.
- Parking Assist is turned off whenever the engine is restarted. Press the Parking/View (P) button to turn use Parking Assist again.

2. Selecting parking mode and type

(1) Select parking mode by pressing the Parking/View (P) button briefly. Parking type will change whenever the button is pressed. Right parallel reverse parking → Left parallel reverse parking →Right perpendicular reverse parking → Left perpendicular reverse parking

- If you stay in one parking type for more than 15 seconds while the vehicle is stopped, the 'Drive on until search is complete' message will appear on the cluster.

■ Perpendicular reverse parking



OBC3070095TU

■ Parallel reverse parking



OBC3070096TU

3. Searching for parking space

(1) Slowly drive forward maintaining the distance of approximately 100 cm (40 in.) from the parked vehicles.

- Parking Assist searches for parking spaces that are next to parked vehicles, or parking spaces with parked vehicles in front or rear.
- While searching for a parking space, when the vehicle speed is above 20 km/h (12 mph), a message will appear on the cluster informing you to slow down. When the vehicle speed is above 30 km/h (18 mph), Parking Assist will turn off.
- Searching for a parking space will be completed when there is enough space to move the vehicle in addition to the parking space.

■ Perpendicular reverse parking



OBC3070128TU

■ Parallel reverse parking



OBC3070129TU

4. Recognizing parking space

(1) When a parking space is found, a blank space will appear on the cluster like the picture above.

- Slowly move forward, Parking Assist will move to the next stage (Search complete).

■ Perpendicular reverse parking



OBC3070097TU

■ Parallel reverse parking



OBC3070098TU

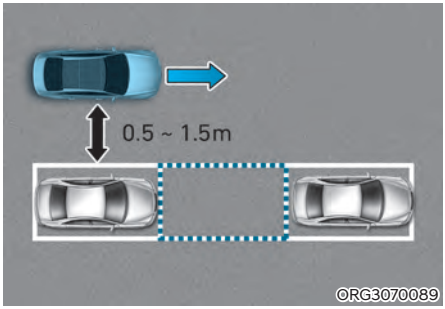
5. Search complete

(1) While slowly driving forward to search for a parking space, the 'Parking space found' message will appear on the cluster with a beep sound if the searching process is complete.

Information

Even if Parking Assist is not being operated by the driver, it searches for a parking space at all times. Therefore, when Parking mode is selected, the search result (search/recognize/complete) will appear on the cluster.

Information



ORG3070089

[A] : Searching for parking space

- **If the distance is below 50 cm (20 in.) or above 150 cm (59 in.), Parking Assist may not be able to search for a parking space.**
- **If you do not maintain a certain distance from the parked vehicle, the performance to search for a parking space may reduce.**
- **Even if a diagonal parking space is searched as a parking space, parking is not assisted normally.**
- **When searching for a parking space, Parking Assist may not be able to find a parking space if there is no vehicle parked, if the parking space is available after driving by or if the parking space is available before driving by.**
- **Parking Assist may not be able to search for a parking space even if there is a parking space, and the function may search for a space that is not suitable for parking in the following circumstances:**
  - **The parking space is narrow**
  - **The ultrasonic sensor is frozen or dirty**
  - **There are objects located high or low**
  - **There are pillars around the parking space**
  - **The parked vehicle has objects attached to the bumper such as bumper guard, trailer hitch, etc.**



OBC3070099TU

6. Steering wheel control

(1) Shift the gear to R (Reverse).

(2) Parking Assist will provide instructions on the cluster and the steering wheel will be controlled.

- If the steering wheel is held tight, Parking Assist will be cancelled.

(3) Take your foot off the brake pedal and drive in reverse.

- Do not drive above 7 km/h (4 mph). Parking Assist will be cancelled if the vehicle speed is above 7 km/h (4 mph).



OBC3070100TU/OBC3070101TU



OBC3070102TU

6-1. Gear shift request during steering wheel control

(1) Depending on the parking environments, shift request messages (Shift to the 1st gear, Shift to R, Shift to D) will appear on the cluster along with a beep sound.

(2) Shift the gear according to the message and park the vehicle using the brake pedal.

- **If you do not follow the instructions on the cluster, parking may be incomplete or the vehicle may not be parked straight.**



OBC3070103TU

7. Parking complete

(1) Complete parking your vehicle by following the instructions on the cluster. If required, manually control the steering wheel and complete parking your vehicle.

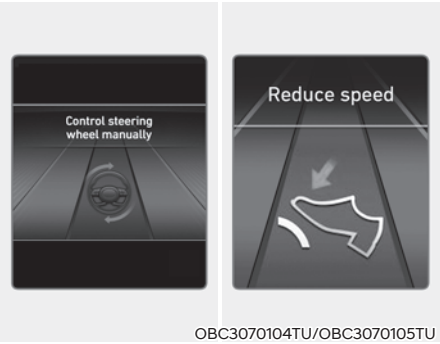
(2) When using perpendicular reverse parking, Parking Assist will complete parking the vehicle without completely entering the parking space, considering stoppers, etc. in the parking space. If necessary, manually complete parking your vehicle.

How to turn off Parking mode while operating

- Press and hold the Parking/View (P) button in the following stage:
  - Searching for parking space
  - Select parking mode and type
- Press the Parking/View (P) button or Parking Safety (P) button while the steering wheel is being controlled.

Parking mode will cancel in the following conditions:

- When searching for parking space
  - Shifting the gear to R (Reverse)
  - The vehicle is above 30 km/h (18 mph)
  - The parking space is narrow
  - The steering wheel, gearshift, braking, and drive controls are not working normally
  - ABS, TCS or ESC system operates due to slippery road conditions
- When the steering wheel is being controlled
  - The steering wheel is steered
  - Approximately 6 minutes have passed after the steering wheel has been controlled
  - The steering wheel, gearshift, braking, and drive controls are not working normally
  - ABS, TCS or ESC system operates due to slippery road conditions



OBC3070104TU/OBC3070105TU

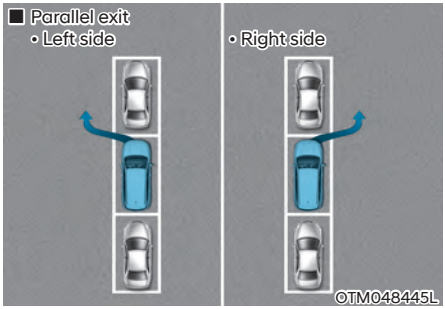
Additional instructions (messages)

When Parking Assist is operating, a message may appear regardless of the operating order. The messages will appear according to the circumstances. Follow the instructions provided while using Parking Assist.

WARNING

If the vehicle does not move even though the brake pedal is not depressed, check the surroundings before depressing the accelerator pedal.

Exit mode



OTM048445L

Use Exit mode when the following conditions are satisfied.

- There is enough space to move the vehicle

Operating order

Exit mode operates in the following order:

1. Getting ready for exit
2. Selecting exit mode and type
3. Checking space
4. Steering wheel control
5. Exiting complete

- Parking Assist will help you with parallel exit.



1. Getting ready for exit

(1) With the engine turned on, depress the brake pedal and shift the gear to P (Park) or N (Neutral).

(2) Press and hold the Parking/View (P) button to turn on Parking Assist. A message will appear on the cluster and the Parking Safety (P) button indicator light will illuminate.

- If the engine is turned on when the gear is in N (Neutral), Exit mode will be selected. Parking mode will be selected automatically after the vehicle has been driven.
- Parking Assist is turned off whenever the engine is restarted. Press the Parking/View (P) button to turn use Parking Assist again.

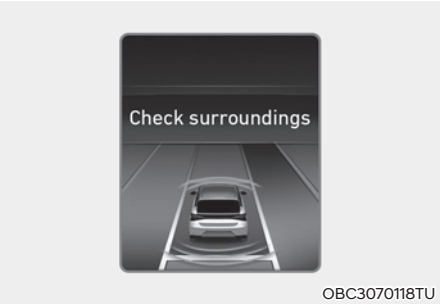
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2. Selecting exit mode and type

(1) Select exit mode by pressing the Parking/View (P) button briefly. Parking type will change whenever the button is pressed. Left parallel exit → Right parallel exit

- If the engine is turned on when the gear is in N (Neutral), Exit mode will be selected. Parking mode will be selected automatically after the vehicle has been driven.

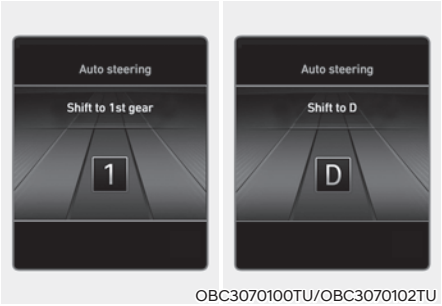


OBC3070118TU

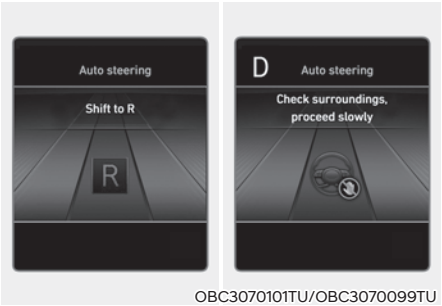
3. Checking space

(1) When the vehicle is parked parallel, the vehicle sensors will detect the distance from nearby objects and check for space to exit.

- If the front or rear vehicle (or object) is too near, the function will not be able to search for space, and will turn off.
- Parking Assist may not be able to search for space even if there is space to leave, and the function may search for a space that is not suitable for the vehicle to leave in the following circumstances:
  - The ultrasonic sensor is frozen or dirty
  - There are objects located high or low
  - There are pillars around the parking space
  - The parked vehicle has objects attached to the bumper such as bumper guard, trailer hitch, etc.



OBC3070100TU/OBC3070102TU



OBC3070101TU/OBC3070099TU

4. Steering wheel control

(1) Shift the gear to D (Drive) or R (Reverse) according to the message on the cluster.

(2) Parking Assist will start to control the steering wheel.
  - If the steering wheel is held tight, Parking Assist will be cancelled.

(3) Take your foot off the brake pedal and drive forward or in reverse according to the message on the cluster.

- Always check surroundings for pedestrians, animals or objects before taking your foot off the brake pedal.
- If the vehicle does not move even though the brake pedal is not depressed, check the surroundings before depressing the accelerator pedal.
- Do not drive above 7 km/h (4 mph). Parking Assist will be cancelled if the vehicle speed is above 7 km/h (4 mph).

4-1. Gear shift request during steering wheel control

(1) Depending on the parking environments, shift request messages (Shift to 1st gear, Shift to R, Shift to D) will appear on the cluster along with a beep sound.

(2) Shift the gear according to the message and exit the vehicle using the brake pedal.

- If you do not follow the instructions on the cluster, parking may be incomplete or the vehicle may not exit straight.



OBC3070127TU

5. Exiting complete

(1) When exit is complete, the 'Exiting complete' message will appear on the cluster with a beep sound.

(2) Turn the steering wheel to the direction you are leaving as much as you can, and check the surroundings before driving.

How to turn off Exit mode while operating

- Press the Parking/View (P) button or Parking Safety button.

Exit mode will cancel in the following conditions:

- **When checking space to exit**
  - Shifting the gear to R (Reverse)
  - The vehicle moves
  - Not enough space to exit
  - An object is detected within 2mm (79 in.) in the direction of exit
  - The steering wheel, gearshift, braking, and drive controls are not working normally
  - ABS, TCS or ESC system operates due to slippery road conditions
- When the steering wheel is being controlled
  - The steering wheel is steered
  - Approximately 6 minutes have passed after the steering wheel has been controlled
  - The steering wheel, gearshift, braking, and drive controls are not working normally
  - ABS, TCS or ESC system operates due to slippery road conditions



OBC3070104TU

Additional instructions (messages)

When Parking Assist is operating, a message may appear regardless of the operating order. The messages will appear according to the circumstances. Follow the instructions provided while using Parking Assist.

WARNING

- **Always check surroundings for pedestrians, animals or objects before taking your foot off the brake pedal.**
- **If the vehicle does not move even though the brake pedal is not depressed, check the surroundings before depressing the accelerator pedal.**
- **If it is determined that the space is too small when the vehicle is being controlled to exit, Exit mode will be canceled.**

Parking Assist malfunction and limitations

Parking Assist malfunction



OBC3070120TU

When Parking Assist is not working properly, the 'Check PA (Parking Assist) system' warning message will appear on the cluster. If the message appears, stop using the function, and we recommend that the function be inspected by an authorized HYUNDAI dealer.

Limitations of Parking Assist

In the following circumstances, function performance to park or exit the vehicle may be limited or there may be a risk of collision. Park or exit the vehicle manually if necessary.

- An object is attached to the steering wheel
- The vehicle is installed with a snow chain, spare tire or different size wheel
- Tire pressure is lower or higher than the standard tire pressure
- Your vehicle is loaded with cargo longer or wider than your vehicle or a trailer is connected to your vehicle
- There is a problem with the wheel alignment
- Your vehicle is leaned severely to one side
- Your vehicle is equipped with a trailer hitch
- The license plate is installed differently from the original location
- There is a person, animal or object above or below the ultrasonic sensor when Parking Assist is activated
- The parking space is curved or diagonal
- There is an obstacle such as a person, animal or object (trash can, bicycle, motorcycle, shopping cart, narrow pillar etc.) near the parking space
- There is a circular pillar or narrow pillar, or a pillar surrounded by objects such as fire extinguisher, etc. near the parking space
- The road surface is bumpy (curbstone, speed bump, etc.)
- The road is slippery
- The parking space is near a vehicle with higher ground clearance or big, such as a truck, etc.
- The parking space is Inclined
- There is heavy wind
- Operating the function on uneven roads, gravel roads, bushes, etc.
- The performance of the ultrasonic sensor is affected by extremely hot or cold weather
- The ultrasonic sensor is covered with snow or water
- An object that generates ultrasonic waves is nearby
- Wireless transmitters or mobile phones are present near the sensor
- Your vehicle is affected by another vehicle's Parking Distance Warning
- The sensor is mounted or positioned incorrectly by an impact to the bumper
- When the ultrasonic sensor cannot detect the following objects:
  - Sharp or slim objects such as ropes, chains or small poles
  - Objects smaller than 100 cm (40 in.) in length and narrower than 14 cm (6 in.) in diameter
  - Objects which tend to absorb sensor frequency such as clothes, spongy material or snow

Parking Assist may not operate normally under the following circumstances:

- Parking on inclines



Park manually when parking on inclines.

- Parking in snow



Snow may interfere with sensor operation, or Parking Assist may cancel if the road is slippery while parking.

- Parking on uneven road



Parking Assist may cancel when the vehicle slips, or the vehicle cannot move due to road conditions such as pebbles or fragmented stones.

- Parking behind a truck



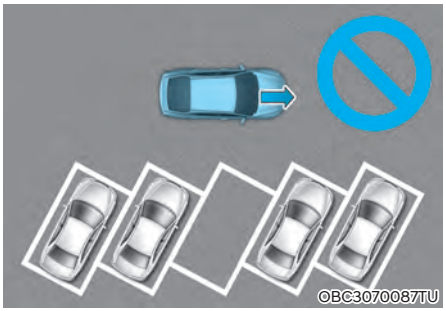
Do not use Parking Assist around vehicles with higher ground clearance, such as a bus, truck, etc. It may lead to an accident.

- Parking near a pillar



Parking Assist performance may reduce when there is a pillar or pillar surrounded by objects such as a fire extinguisher near the parking space.

- Parking diagonal



Parking Assist does not provide diagonal parking. Even if your vehicle is able to enter the parking space, do not use the function because the function cannot operate normally.

- Leaving a parking space near a wall or parking in a narrow space



- For your safety, Parking Assist does not search for parking spaces at areas with narrow parking spaces that are narrower than the minimum space required for parking.
- Parking Assist may not operate properly when leaving a parking space that is narrow and near a wall. Always check for pedestrians, animals, objects while leaving.

WARNING

Take the following precautions when using Parking Assist:

- **The driver is responsible for safe parking and exit when using Parking Assist.**
- **The driver should operate Parking Assist while properly depressing the brake pedal when necessary.**
- **Always check surroundings when using Parking Assist. Even in parking spaces that Parking Assist has searched, make sure that there are no people, animals, or objects in the parking space.**
- **A collision may occur if a pedestrian, animal, or object suddenly appears while Parking Assist is operating.**
- **Do not use Parking Assist when under the influence of alcohol.**
- **Do not put your hands between the steering wheel while it is being automatically controlled. It may cause an accident.**
- **Parking Assist may not operate normally if the vehicle needs wheel alignment adjustment when the vehicle tilts to one side. We recommend that the vehicle be checked by an authorized HYUNDAI dealer.**
- **Use the function only in a parking space that is large enough for the vehicle to move safely.**
- **Parking Assist may operate if the Parking/View (P) button is pressed while the vehicle is stopped. Be careful not to press the button unintentionally.**
- **Never drive too fast when using Parking Assist. Always drive cautiously to prevent unexpected and sudden situations from occurring.**
- **Slowly move forward or in reverse while depressing the brake pedal after the steering wheel has been fully turned by Parking Assist.**

CAUTION

If the 3rd stage warning (continuous beep) of the Forward/Reverse Parking Distance Warning sounds while Parking Assist is operating, it means the obstacle detected is close to your vehicle. Make sure there are no pedestrians, animals, or objects around your vehicle.

DECLARATION OF CONFORMITY (IF EQUIPPED)

- For Ukraine



UA RF: 1APTV H5TR

справжнім (найменування виробника) заявляє, що тип радіообладнання (позначення типу радіообладнання) відповідає Технічному регламенту радіообладнання;

повний текст декларації про відповідність доступний на веб-сайті за такою адресою: www.aptiv.com/automotive-homologation

OANATEL118

- For Ghana

NCA approved: ZR0-M8-7E3-249

OANATEL119

- For Republic of South Africa



OANATEL120

- For Serbia



OANATEL121

- For Paraguay



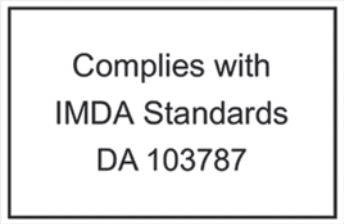
OANATEL122

- For Malaysia



OANATEL057

- For Singapore



OANATEL058

- For Europe and CE certified countries



OANATEL116

8. Emergency situations

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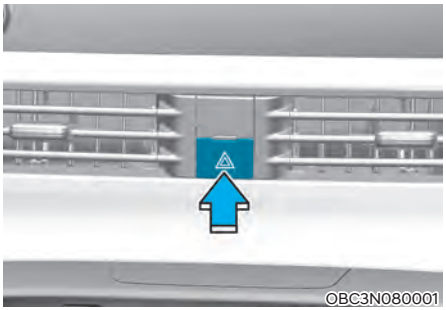
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HAZARD WARNING FLASHER



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 automatic transmission/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 an automatic transmission/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.**

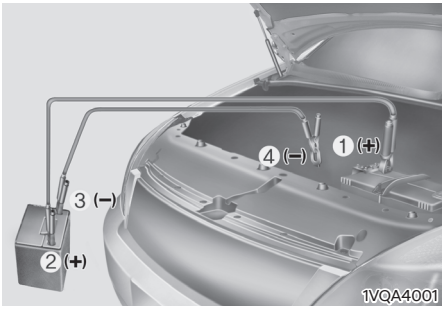
Information



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.

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 automatic transmission/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 2,000rpm 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 automatic transmission/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.

NOTICE

- **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)





(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 Warning 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 you have the system checked by an authorized HYUNDAI dealer.

1. **The Low Tire Pressure Telltale/ TPMS Malfunction Indicator does not illuminate for 3 seconds when the Engine Start/Stop button is pressed to the ON position or when 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 warning light

Low tire pressure position and tire pressure telltale



ONX4E040019

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 will indicate which tire is significantly under-inflated by illuminating the corresponding position light.

If either telltale illuminates, immediately reduce your speed, avoid hard cornering and anticipate increased stopping distances. You should stop and check your tires as soon as possible. Inflate the tires to the proper pressure as indicated on the vehicle's placard or tire inflation pressure label located on the driver's side center pillar outer panel.

If you cannot reach a service station or if the tire cannot hold the newly added air, replace the low pressure tire with the spare tire.

The Low Tire Pressure Telltale will remain on and the TPMS Malfunction Indicator may blink for one minute and then remain illuminated (when the vehicle is driven approximately 10 minutes at speed above 25 km/h (15.5 mph)) until you have the low pressure tire repaired and replaced on the vehicle.

CAUTION

In winter or cold weather, the Low Tire Pressure Telltale may be illuminated if the tire pressure was adjusted to the recommended tire inflation pressure in warm weather. It does not mean your TPMS is malfunctioning because the decreased temperature leads to a proportional lowering of tire pressure.

When you drive your vehicle from a warm area to a cold area or from a cold area to a warm area, or the outside temperature is greatly higher or lower, you should check the tire inflation pressure and adjust the tires to the recommended tire inflation pressure.

WARNING

Low pressure damage

Significantly low tire pressure makes the vehicle unstable and can contribute to loss of vehicle control and increased braking distances.

Continued driving on low pressure tires can cause the tires to overheat and fail.

TPMS (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.

NOTICE

The TPMS Malfunction Indicator may illuminate after blinking for one minute if the vehicle is near electric power supply cables or radio transmitters such as police stations, government and public offices, broadcasting stations, military installations, airports, transmitting towers, etc.

Additionally, the TPMS Malfunction Indicator may illuminate if snow chains are used or electronic devices such as computers, chargers, remote starters, navigation, etc. This may interfere with normal operation of the TPMS.

Changing a tire with TPMS

If you have a flat tire, the Low Tire Pressure and Position telltales will come on. 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.

NOTICE

It is recommended that you do not use a puncture-repairing agent not approved by HYUNDAI dealer or the equivalent specified for your vehicle to repair and/or inflate a low pressure tire. Tire sealant not approved by HYUNDAI dealer or the equivalent specified for your vehicle may damage the tire pressure sensor.

The spare tire (if equipped) does not come with a tire pressure monitoring sensor. When the low pressure tire or the flat tire is replaced with the spare tire, the Low Tire Pressure Telltale will remain on. Also, the TPMS Malfunction Indicator will illuminate after blinking for one minute if the vehicle is driven at speed above 25 km/h (15.5 mph) for approximately 10 minutes.

Once the original wheel equipped with a tire pressure monitoring sensor is reinflated to the recommended pressure and reinstalled on the vehicle, the Low Tire Pressure Telltale and TPMS Malfunction Indicator will go off within a few minutes of driving.

❇ 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 the indicators do not extinguish after a few minutes, it is recommended to contact the nearest authorized HYUNDAI dealer.

Each wheel is equipped with a tire pressure sensor mounted inside the tire behind the valve stem (except for the spare tire). You must use TPMS specific wheels. It is recommended that you always have your tires serviced by an authorized HYUNDAI dealer.

You may not be able to identify a tire with low pressure by simply looking at it. Always use a good quality tire pressure gauge to measure. Please note that a tire that is hot (from being driven) will have a higher pressure measurement than a tire that is cold.

A cold tire means the vehicle has been sitting for 3 hours and driven for less than 1.6 km (1 mile) in that 3 hour period.

Allow the tire to cool before measuring the inflation pressure. Always be sure the tire is cold before inflating to the recommended pressure.

WARNING

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

WARNING

Tampering with, modifying, or disabling the Tire Pressure Monitoring System (TPMS) components may interfere with the system's ability to warn the driver of low tire pressure conditions and/or TPMS malfunctions. Tampering with, modifying, or disabling the Tire Pressure Monitoring System (TPMS) components may void the warranty for that portion of the vehicle.

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.**

IF YOU HAVE A FLAT TIRE (WITH SPARE TIRE, IF EQUIPPED)

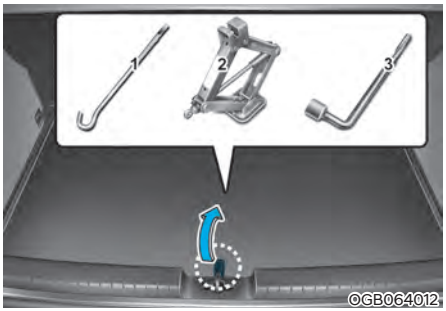
WARNING

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

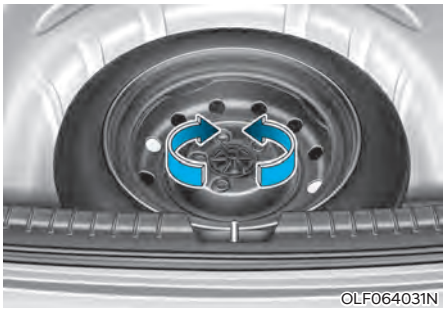


(1) Jack handle

(2) Jack

(3) Wheel lug nut wrench

The jack, jack handle and wheel lug nut wrench are stored in the luggage compartment under the luggage box cover. (if equipped)

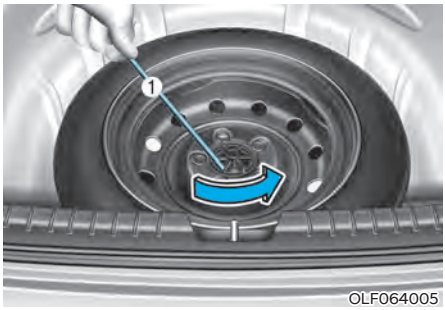


The jack is provided for emergency tire changing only.

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 jack handle.

1. Put the jack handle (1) inside of the tire hold-down wing bolt.
2. Turn the tire hold-down wing bolt counterclockwise with the jack handle.

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 automatic transmission/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.

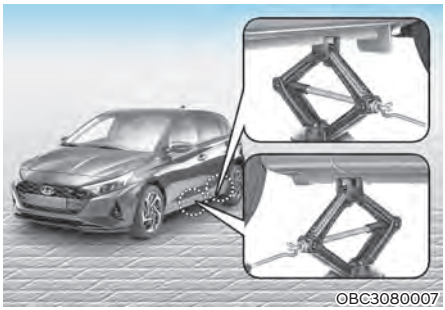


[A]: Block

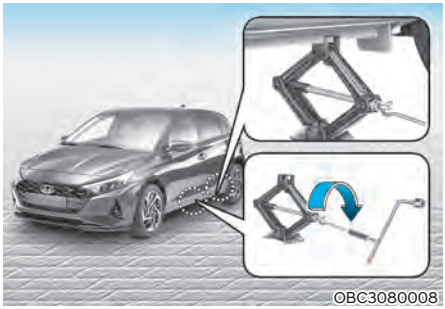
5. Block both the front and rear of the tire diagonally opposite of the tire you are changing.



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.


OBC3080007

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 any other position or part of the vehicle. Doing so may damage the side seal molding or other parts of the vehicle.


OBC3080008

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.



OBC3080009

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 11~13kgf.m (79~94 lbf.ft, 107~127N.m).**

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, secure the flat tire 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 11~13kgf.m (79~94 lbf.ft, 107~127N.m).

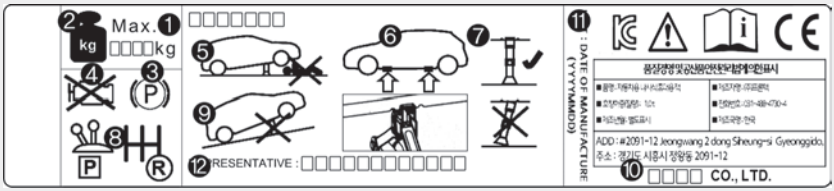
CAUTION

To prevent damaging the compact spare tire and your vehicle:

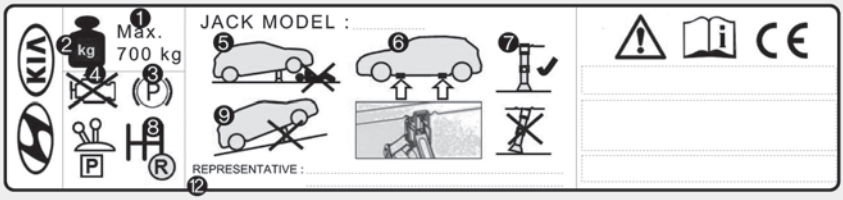
- **Drive slowly enough for the road conditions to avoid all hazards, such as a potholes or debris.**
- **Avoid driving over obstacles. The compact spare tire diameter is smaller than the diameter of a conventional tire and reduces the ground clearance approximately 25 mm (1 inch).**
- **Do not use tire 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

■ Type A



■ Type B



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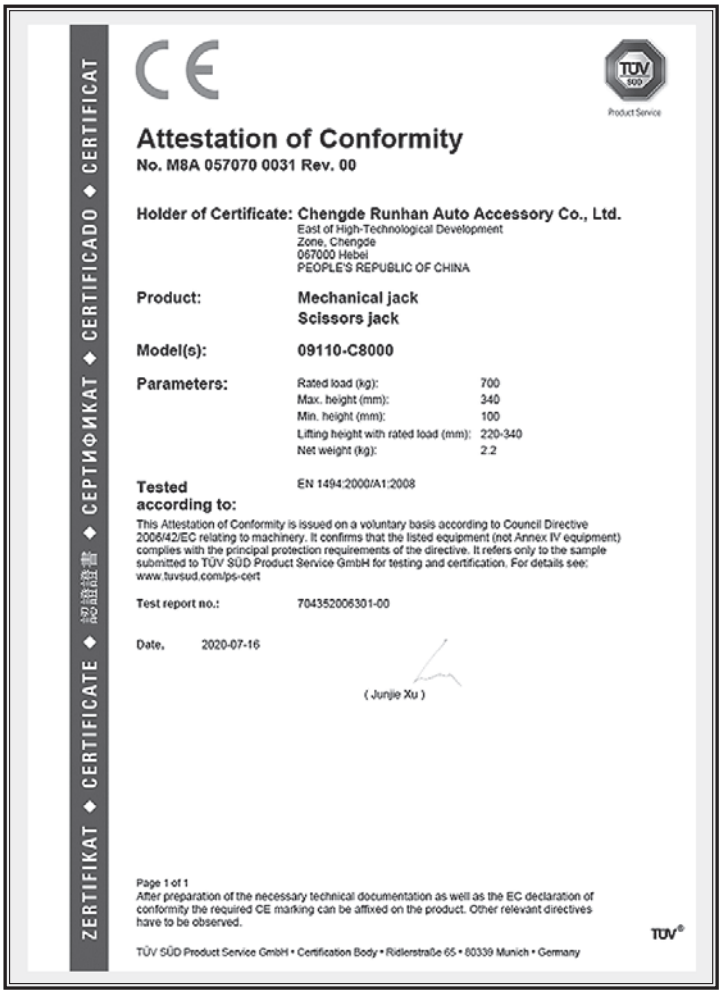
The actual Jack label in the vehicle may differ from the illustration.

For more detailed specifications, refer to the label attached to the jack.

1. Model Name
2. Maximum allowable load
3. When using the jack, set your parking brake.
4. When using the jack, stop the engine.
5. Do not get under a vehicle that is supported by a jack.
6. The designated locations under the frame
7. When supporting the vehicle, the base plate of jack must be vertical under the lifting point.
8. Shift into Reverse gear on vehicles with manual transmission or move the shift lever to the P position on vehicles with automatic transmission/dual clutch transmission.
9. The jack should be used on firm level ground.
10. Jack manufacture
11. Production date
12. Representative company and address

EC Declaration of conformity for Jack

Type A



ZERTIFIKAT ◆ CERTIFICATE ◆ 認證書 ◆ СЕРТИФИКАТ ◆ CERTIFICADO ◆ CERTIFICAT

CE

TÜV SÜD Product Service

Attestation of Conformity

No. M8A 057070 0031 Rev. 00

Holder of Certificate: **Chengde Runhan Auto Accessory Co., Ltd.**
East of High-Technological Development
Zone, Chengde
067000 Hebei
PEOPLE'S REPUBLIC OF CHINA

Product: **Mechanical jack**
Scissors jack

Model(s): **09110-C8000**

Parameters:

Rated load (kg):	700
Max. height (mm):	340
Min. height (mm):	100
Lifting height with rated load (mm):	220-340
Net weight (kg):	2.2

Tested according to: EN 1494:2000/A1:2008

This Attestation of Conformity is issued on a voluntary basis according to Council Directive 2006/42/EC relating to machinery. It confirms that the listed equipment (not Annex IV equipment) complies with the principal protection requirements of the directive. It refers only to the sample submitted to TÜV SÜD Product Service GmbH for testing and certification. For details see: www.tuvsud.com/ps-cert

Test report no.: 704352006301-00

Date, 2020-07-16

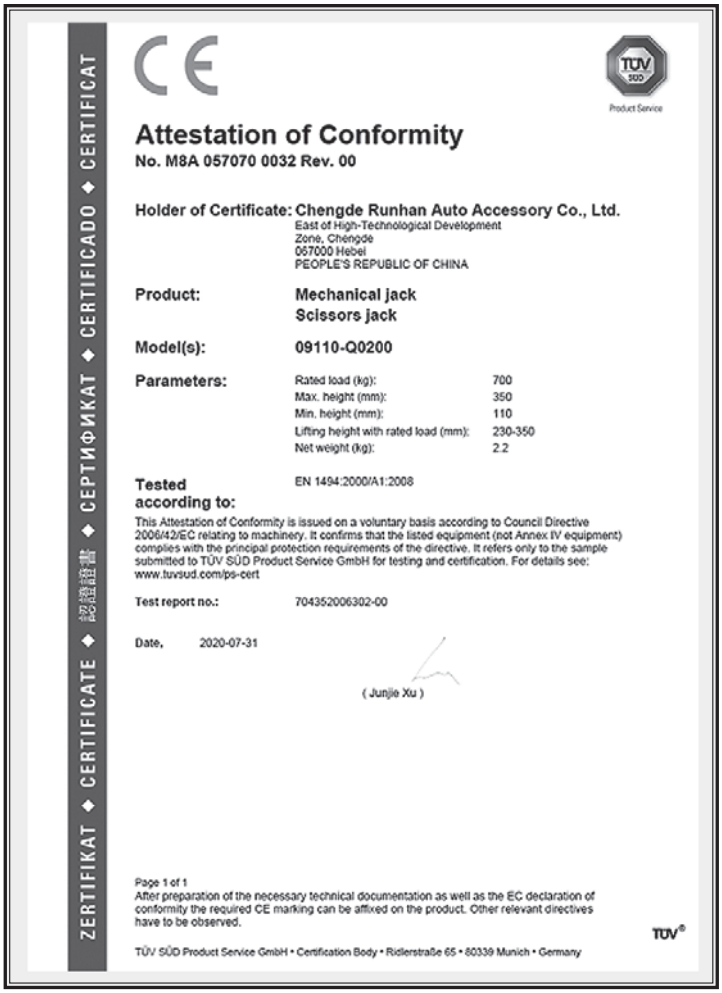
(Junjie Xu)

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After preparation of the necessary technical documentation as well as the EC declaration of conformity the required CE marking can be affixed on the product. Other relevant directives have to be observed.

TÜV®

TÜV SÜD Product Service GmbH • Certification Body • Ridlerstraße 65 • 80339 Munich • Germany

OBC3080031TU



ZERTIFIKAT ◆ CERTIFICATE ◆ 認證證書 ◆ СЕРТИФИКАТ ◆ CERTIFICADO ◆ CERTIFICAT

CE

TÜV SÜD Product Service

Attestation of Conformity

No. M8A 057070 0032 Rev. 00

Holder of Certificate: **Chengde Runhan Auto Accessory Co., Ltd.**
East of High-Technological Development
Zone, Chengde
067000 Hebei
PEOPLE'S REPUBLIC OF CHINA

Product: **Mechanical jack**
Scissors jack

Model(s): **09110-Q0200**

Parameters:

Rated load (kg):	700
Max. height (mm):	350
Min. height (mm):	110
Lifting height with rated load (mm):	230-350
Net weight (kg):	2.2

Tested according to: EN 1494:2000/A1:2008

This Attestation of Conformity is issued on a voluntary basis according to Council Directive 2006/42/EC relating to machinery. It confirms that the listed equipment (not Annex IV equipment) complies with the principal protection requirements of the directive. It refers only to the sample submitted to TÜV SÜD Product Service GmbH for testing and certification. For details see: www.tuvsud.com/ps-cert

Test report no.: 704352006302-00

Date, 2020-07-31

(Junjie Xu)

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After preparation of the necessary technical documentation as well as the EC declaration of conformity the required CE marking can be affixed on the product. Other relevant directives have to be observed.

TÜV®

TÜV SÜD Product Service GmbH • Certification Body • Ridlerstraße 65 • 80339 Munich • Germany

OBC3080032TU

Type B

EG-Konformitätserklärung
EC Declaration of Conformity

Hiermit erklären wir, / *We herewith declare,*
Chengde Runhan Auto Accessory Co., Ltd
East of High-Technological Development Zone, Chengde Hebei
PEOPLE'S REPUBLIC OF CHINA

daß die nachfolgend bezeichnete Maschine aufgrund ihrer Konzipierung und Bauart sowie in der von uns in Verkehr gebrachten Ausführung den einschlägigen grundlegenden Sicherheits- und Gesundheitsanforderungen der EG-Richtlinien entspricht.

That the following machine complies with the appropriate basic safety and health requirements of the EC Directive based on its design and type, as brought into circulation by us.

Bei einer nicht mit uns abgestimmten Änderung der Maschine verliert diese Erklärung ihre Gültigkeit.

In case of alteration of the machine, not agreed upon by us, this declaration will lose its validity

Bezeichnung der Maschine: / *Machine Description:* Mechanical jack(Scissor jack)

Maschinentyp: / *Machine Type:* --

Handelsmarke: / *Trade name* --

Maschinen-Nr.: / *Serial Number* 09110-C8000

Einschlägige EG-Richtlinien: / *Applicable EC Directives:* EG-Maschinenrichtlinie **2006/42/EG** / *EC Machinery Directive:* **2006/42/EC**

Angewandte harmonisierte Normen: / *Applicable Harmonized Standards:* EN 1494:2000/A1:2008

Herstellerunterschrift/Datum: / *Authorized Signature/Date:* 2020/4/9

Angaben zum Unterzeichner: / *Title of Signatory:* general manager

This Declaration of Conformity has been prepared by TÜV Product Service. A specimen of this product meets the requirements of conformity test carried out by TÜV Product Service according with the applicable standards under the mentioned directives.

Diese Konformitätserklärung wurde vom TÜV Product Service vorbereitet. Ein Muster dieses Produktes hat die Anforderungen der Konformitätsprüfung erfüllt. Diese Prüfung wurde beim TÜV Product Service aufgrund der zutreffenden Vorschriften der genannten Richtlinien durchgeführt.

TÜV Product Service Prüfbericht Nr./ TÜV Product Service report reference no.: 70.436.12.078.02-00
Date/Datum 9 APR 2020
Revision 0

OBC3080029

EG-Konformitätserklärung
EC Declaration of Conformity

Hiermit erklären wir, / *We herewith declare,*
Chengde Runhan Auto Accessory Co., Ltd
East of High-Technological Development Zone, Chengde Hebei
PEOPLE'S REPUBLIC OF CHINA

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Bezeichnung der Maschine: / *Machine Description:* Mechanical jack(Scissor jack)

Maschinentyp: / *Machine Type:* --

Handelsmarke: / *Trade name* --

Maschinen-Nr.: / *Serial Number* 09110-Q0200

Einschlägige EG-Richtlinien: / *Applicable EC Directives:* EG-Maschinenrichtlinie **2006/42/EG** / *EC Machinery Directive:* **2006/42/EC**

Angewandte harmonisierte Normen: / *Applicable Harmonized Standards:* EN 1494:2000/A1:2008

Herstellerunterschrift/Datum: / *Authorized Signature/Date:* 2020/4/9

Angaben zum Unterzeichner: / *Title of Signatory:* general manager

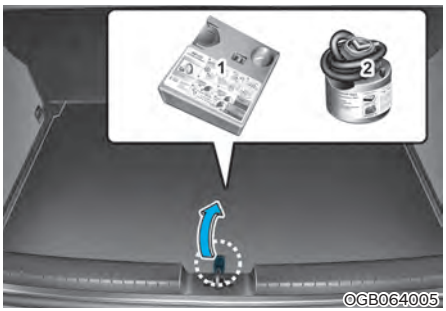
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TÜV Product Service Prüfbericht Nr./ TÜV Product Service report reference no.: 70.436.12.078.02-00
Date/Datum 9 APR 2020
Revision 0

OBC3080030

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 tire inspected by an authorized HYUNDAI dealer.

NOTICE

- One sealant for one tire

When two or more tires are flat, do not use the tire mobility kit because the supported one sealant of Tire Mobility Kit is only used for one flat tire.

WARNING

Tire wall

Do not use the Tire Mobility Kit to repair punctures in the tire walls. This can result in an accident due to tire failure.

WARNING

Temporary fix

Have your tire repaired as soon as possible. The tire may loose air pressure at any time after inflating with the Tire Mobility Kit.

Introduction



With the Tire Mobility Kit, you can keep the 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 (distance up to 200 km (120 miles)) at a max. speed of (80 km/h) in order to reach a service station or tire dealer for the tire replacement.

It is possible that some tires, especially with larger punctures or damage to the sidewall, cannot be sealed completely.

Air pressure loss in the tire may adversely affects 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 how to temporarily seal the puncture simply and reliably.

Read the section "Notes on the safe use of the Tire Mobility Kit".

Notes on the safe use of the Tire Mobility Kit

- Park your car at the side of the road so that you can work with the Tire Mobility Kit away from moving traffic.
- To be sure your vehicle does not move, even when you're on fairly level ground, always set your parking brake.
- Only use the Tire Mobility Kit for sealing/inflation passenger car tires. Only punctured areas located within the tread region of the tire can be sealed using the tire mobility kit.
- Do not use on motorcycles, bicycles or any other type of tires.
- When the tire and wheel are damaged, do not use Tire Mobility Kit for your safety.
- Use of the Tire Mobility Kit may not be effective for tire damage larger than approximately 0.24 in (6 mm).

  We recommend that you contact an authorized HYUNDAI dealer.
- Do not use the Tire Mobility Kit if a tire is severely damaged by driving run flat or with insufficient air pressure.
- Do not remove any foreign objects such as nails or screws that have penetrated the tire.
- Provided the car is outdoors, leave the engine running. Otherwise operating the compressor may eventually drain the car battery.
- Never leave the Tire Mobility Kit unattended while it is being used.
- Do not leave the compressor running for more than 10 min. at a time or it may overheat.
- Do not use the Tire Mobility Kit if the ambient temperature is below -22°F (-30°C).

Components of the Tire Mobility Kit



OIA0630007/Q

1. Speed restriction label
2. Sealant bottle and label with speed restriction
3. Filling hose to wheel
4. Connectors and cable for the power outlet direct connection
5. Holder for the sealant bottle
6. Compressor
7. On/off switch
8. Pressure gauge for displaying the tire inflation pressure
9. Button for reducing the tire inflation pressure
10. Hose to connect compressor and sealant bottle or compressor and wheel

Connectors, cable and connection hose are stored in the compressor housing.

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.**

Strictly follow the specified sequence, otherwise the sealant may escape under high pressure.

WARNING

To inflate tire pressure only (not with flat tire),

Follow the instruction "Checking the tire inflation pressure" provided in this chapter.

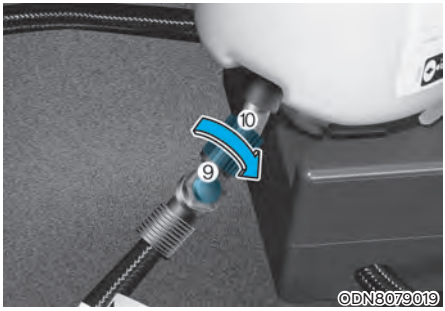
Using the Tire Mobility Kit

CAUTION

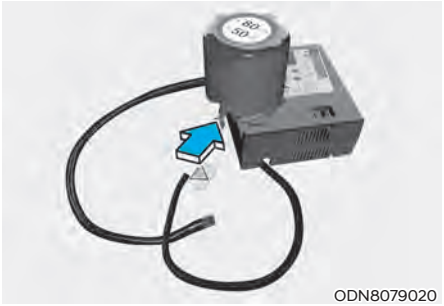
Detach the speed restriction label (1) from the sealant bottle (2), and place it in a highly visible place inside the vehicle such as on the steering wheel to remind the driver not to drive too fast.



1. Shake the sealant bottle.



2. Screw connection hose (10) onto the connector of the sealant bottle.
3. Ensure that button (9) on the compressor is not pressed.
4. Unscrew the valve cap from the valve of the defective wheel and screw filling hose (3) of the sealant bottle onto the valve.

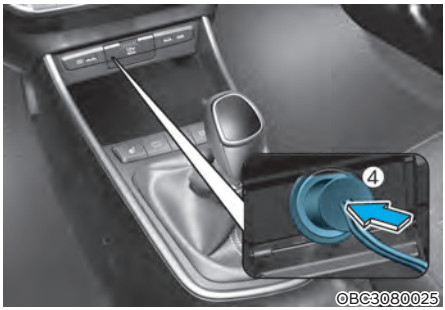


5. Insert the sealant bottle into the housing (5) of the compressor so that the bottle is upright.
6. Ensure that the compressor is switched off, position 0.



NOTICE

Securely install the sealant filling hose to the valve. If not, sealant may flow backward, possibly clogging the filling hose.



7. Connect between compressor and the vehicle power outlet using the cable and connectors (4).
8. With the engine start/stop button position on or ignition switch position on, switch on the compressor and let it run for approximately 5~7 minutes to fill the sealant up to proper pressure. (refer to immediately chapter 2). The inflation pressure of the tire immediately filling is unimportant and will be checked/corrected later.

   Be careful not to overinflate the tire and stay away from the tire while filling it.

NOTICE

- Tire pressure

Do not attempt to drive your vehicle if the tire pressure is below 29 PSI (200 kpa). This could result in an accident due to sudden tire failure.

9. Switch off the compressor.
10. 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.

Distributing the sealant

11. Immediately drive approximately 4~6 miles (7~10 km or, about 10 mins) 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 the vehicle on the side of the road.

Call for road side service or towing.

When you use the Tire Mobility Kit, the tire pressure valve and wheel may be damaged by sealant, remove the sealant stained. We recommend that the tire pressure valve and wheel be inspected by an authorized HYUNDAI dealer.

Checking the tire inflation pressure

1. After driving approximately 4 ~6 miles (7~10 km or about 10 min), stop at a safety location.
2. Connect connection hose (10) of the compressor directly to the tire valve.
3. Plug the compressor power cord into the vehicle power outlet.
4. Adjust the tire inflation pressure to the recommended tire inflation.

   With the ignition switched on, proceed as follows.

   - To increase the inflation pressure: Switch on the compressor, position I. To check the current inflation pressure setting, briefly switch off the compressor.

Information

The pressure gauge may show higher than actual reading when the compressor is running. To get an accurate tire pressure, the compressor needs to be turned off.

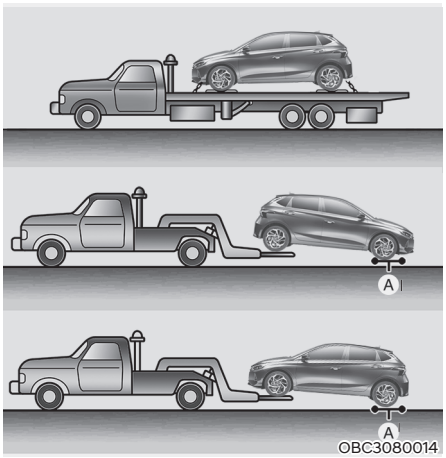
NOTICE

- Tire pressure valve

We recommend that you use the sealant of tire mobility kit from an authorized HYUNDAI dealer. The sealant on the tire pressure valve and wheel should be removed when you replace the tire with a new one and we recommend that the tire pressure valve be inspected by an authorized HYUNDAI dealer.

TOWING

Towing service



[A]: Dolly

If emergency towing is necessary, we recommend having it done by an authorized HYUNDAI dealer or a commercial tow-truck service.

Proper lifting and towing procedures are necessary to prevent damage to the vehicle. The use of wheel dollies or flatbed is recommended.

It is acceptable to tow the vehicle with the rear wheels on the ground (without dollies) and the front wheels off the ground.

If any of the loaded wheels or suspension components are damaged or the vehicle is being towed with the front wheels on the ground, use a towing dolly under the front wheels.

When being towed by a commercial tow truck and wheel dollies are not used, the front of the vehicle should always be lifted, not the rear.

CAUTION

- **Do not tow the vehicle with the front wheels on the ground as this may cause damage to the vehicle.**



- **Do not tow with sling-type equipment. Use wheel lift or flatbed equipment.**



When towing your vehicle in an emergency without wheel dollies:

1. Place the 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.



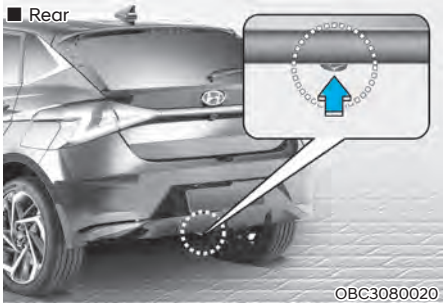
2. Remove the hole cover by pressing the lower part of the cover on the bumper.
3. Install the towing hook by turning it clockwise into the hole until it is fully secured.
4. Remove the towing hook and install the cover after use.

Emergency towing

■ Front



■ Rear



If towing is necessary, we recommend you have it done by an authorized HYUNDAI dealer or a commercial tow truck service.

If towing service is not available in an emergency, your vehicle may be temporarily towed using a cable or chain secured to the emergency towing hook at the front (or rear) of the vehicle.

Use extreme caution when towing the vehicle with a cable or chain. A driver must be in the vehicle to steer it and operate the brakes.

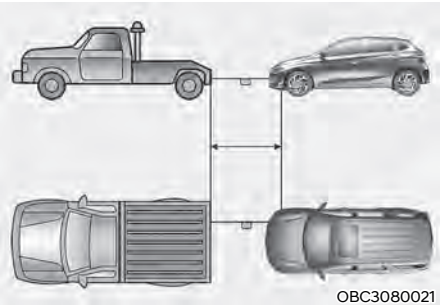
Towing in this manner may be done only on hard-surfaced roads for a short distance and at low speeds. Also, the wheels, axles, power train, steering and brakes must all be in good condition.

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 since you will have reduced braking performance.
- More steering effort will be required because the power steering system will be disabled.
- Use a vehicle heavier than your own to tow your vehicle.
- The drivers of both vehicles should communicate with each other frequently.
- Before emergency towing, check that the hook is not broken or damaged.
- Fasten the towing cable or chain securely to the hook.
- Do not jerk the hook. Apply steady and even force.


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- Use a towing cable or chain less than 5 m (16 feet) long. Attach a white or red cloth (about 30 cm (12 inches) in width) in the middle of the cable or chain for easy visibility.
- Drive carefully so the towing cable or chain remains tight during towing.
- Before towing, check the automatic transmission/dual clutch transmission for fluid leaks under your vehicle.

  If the automatic 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 15 km/h (10 mph) and drive less than 1.5 km (1 mile) when towing to avoid serious damage to transmission. (for Automatic transmission/Dual clutch transmission)**
- **The vehicle should be towed at a speed of 25 km/h (15 mph) or less within the distance of 20 km (12 miles). (for Manual transmission/ Intelligent manual 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, when the vehicle is parked by the roadside due to problems.

Tire pressure gauge

Tires normally lose some air in day-to-day use, and you may have to add an 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:

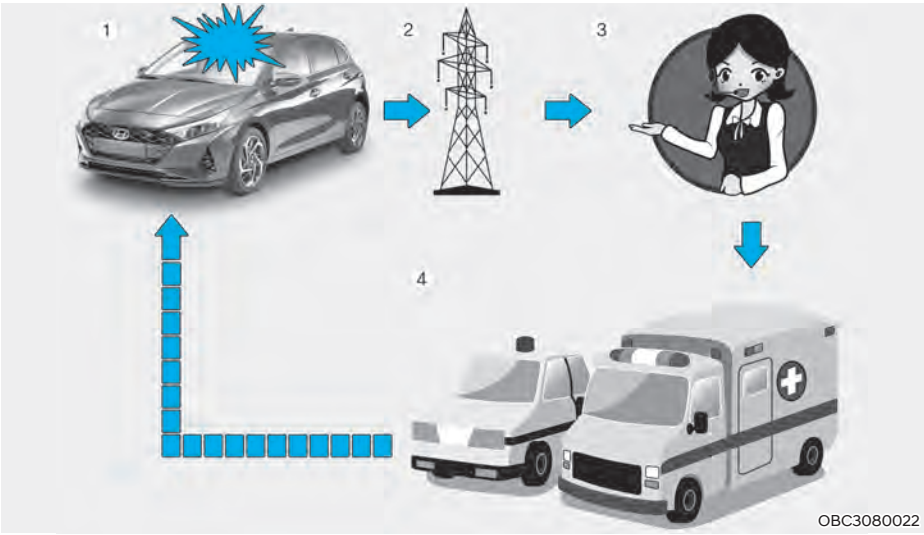
1. Unscrew the inflation valve cap that is located on the rim of the tire.
2. Press and hold the gauge against the tire valve. Some air will leak as you begin and more will leak if you don't press the gauge firmly.
3. A firm non-leaking push will activate the gauge.
4. Read the tire pressure on the gauge 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 2.
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 the event of a traffic accident or other** accidents on the roads of Europe. (only in countries with regulation on this system)

The system allows contacting with an officer of the single duty dispatch service in case of accidents on the roads of Europe. (only in countries with regulation on this system)

The Pan-European eCall system given conditions, stated in the Owner's Manual as well as Warranty and Service book transmits data to the Public Safety Answering Point (PSAP) including such information as vehicle location, vehicle type, VIN (vehicle identification number of the vehicle).



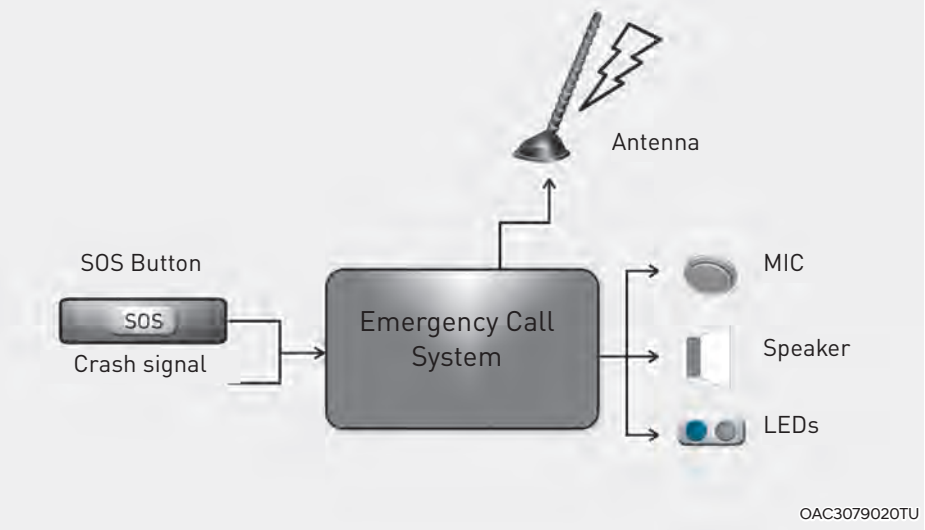
1. Road accident
2. Wireless network
3. Public Safety Answering Point (PSAP)
4. Rescue

* 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



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 recent locations and direction of travel
- Log file of the automatic activation of the system and its timestamp
- Any additional data (if applicable): Not applicable

Recipients of data processed by the 112-based eCall in-vehicle system are the relevant public safety answering points designated by the respective public authorities of the country on which territory they are located, to first receive and handle eCalls to the single European emergency number 112. Additional information (if available): Not applicable

(1) Directive 95/46/EC of the European Parliament and of the Council of 24 October 1995 on the protection of individuals with regard to the processing of personal data and on the free movement of such data (OJ L 281, 23.11.1995, p. 31).

(2) Directive 2002/58/EC of the European Parliament and of the Council of 12 July 2002 concerning the processing of personal data and the protection of privacy in the electronic communications sector (Directive on privacy and electronic communications) (OJ L 201, 31.7.2002, p. 37).

(3) Directive 95/46/EC is repealed by Regulation (EU) 2016/679 of the European Parliament and of the Council of 27 April 2016 on the protection of natural persons with regard to the processing of personal data and on the free movement of such data (General Data Protection Regulation) (OJ L 119, 4.5.2016, p. 1). The Regulation applies from 25 May 2018.

Arrangements for data processing

The 112-based eCall in-vehicle system is designed in such a way as to ensure that the data contained in the system memory is not available outside the system before an eCall is triggered. Additional remarks (if any): Not applicable

The 112-based eCall in-vehicle system is designed in such a way as to ensure that it is not traceable and not subject to any constant tracking in its normal operation status. Additional remarks (if any): Not applicable

The 112-based eCall in-vehicle system is designed in such a way as to ensure that data in the system internal memory is automatically and continuously removed.

The vehicle location data is constantly overwritten in the internal memory of the system so as always to keep maximum of the last three up-to-date locations of the vehicle necessary for the normal functioning of the system.

The log of activity data in the 112-based eCall in-vehicle system is kept for no longer than necessary for attaining the purpose of handling the emergency eCall and in any case not beyond 13 hours from the moment an emergency eCall was initiated. Additional remarks (if any): Not applicable

Modalities for exercising data subject's rights

The data subject (the vehicle's owner) has a right of access to data and as appropriate to request the rectification, erasure or blocking of data, concerning him or her, the processing of which does not comply with the provisions of Directive 95/46/EC. Any third parties to whom the data have been disclosed have to be notified of such rectification, erasure or blocking carried out in compliance with this Directive, unless it proves impossible or involves a disproportionate effort.

The data subject has a right to complain to the competent data protection authority if he or she considers that his or her rights have been infringed as a result of the processing of his or her personal data.

Contact service responsible for handling access requests (if any): Not applicable

Pan-European eCall System



Elements of the Pan-European eCall system, installed in passenger compartment:

(1) SOS button

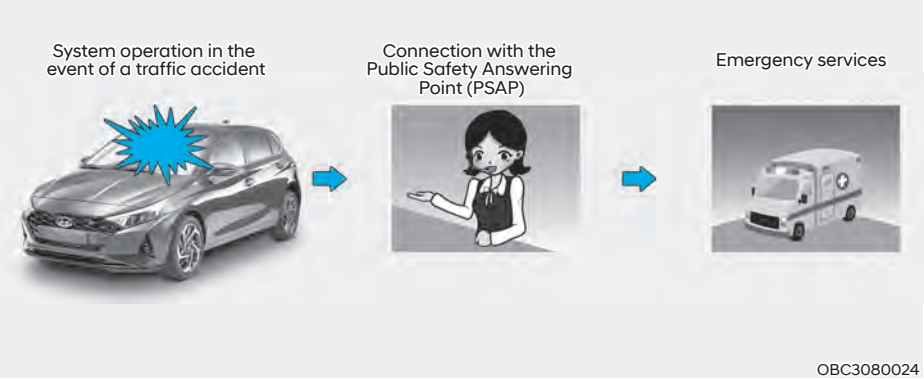
(2) LED

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 the 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



OBC3080026

The driver or passenger manually can make an emergency call in the Public Safety Answering Point(PSAP), by pressing SOS button to call the necessary emergency services.

A call to the emergency services through the Pan-European eCall system can be cancelled by pressing the SOS button again only before the call connection.

After activation of emergency call in the manual mode (for proper emergency services and support), the Pan-European eCall system automatically transmits the road accident data / or data on other accident to the officer of the Public Safety Answering Point (PSAP) (during emergency call) by pressing the SOS button.

If the driver or passenger accidentally presses the SOS button, it can be canceled by pressing the button again. (For Russia)

It can be canceled by pressing the button again in 3 seconds. It can't be canceled after that. (Except Russia)

In case of road accident or other accidents for activation of emergency call in manual mode it is necessary:

1. Stop the vehicle in accordance with traffic rules to ensure safety to yourself and other participants of road traffic;
2. Press the SOS button, when pressing the button SOS registration of the device in the wireless telephonic communication networks is carried out, minimum data set about vehicle and its location is collected in accordance with of the technical requirements of the device. After that connection with the officer of the Pan-European eCall system is made for clearing up reasons (conditions) of the emergency call.
3. After clearing up reasons of the emergency call, the officer of the Public Safety Answering Point (PSAP) sends emergency services and completes the emergency call.

If the emergency call is not carried out in accordance with the procedure, mentioned above, the emergency call will be considered as erroneous.

WARNING

Emergency power supply of the Pan-European eCall system from the battery

- **The Pan-European eCall system battery supplies power during 1 hour in case the 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 "Maintenance Schedule" in chapter 9.**

LED illumination in red (system malfunction)

If the red LED illuminates in normal driving conditions, this can indicate malfunction of the Pan-European eCall system. We recommend that you have the Pan-European eCall system checked by an authorized HYUNDAI dealer as soon as possible. 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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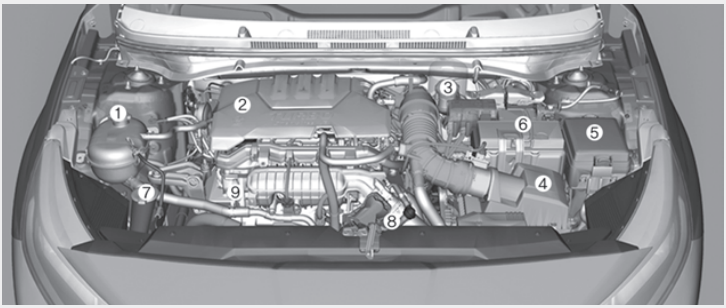
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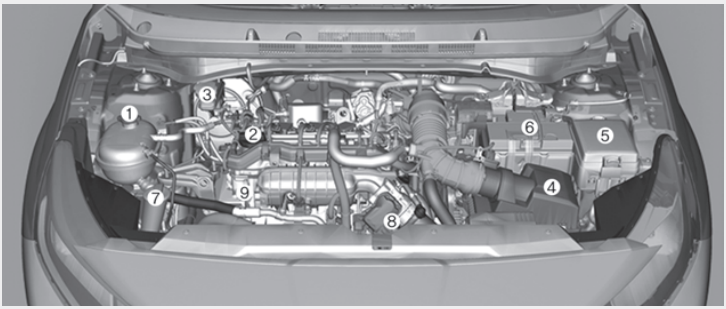
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ENGINE COMPARTMENT

■ Smartstream G 1.0 T-GDi/Smartstream G1.0 T-GDi (48V) MHEV
- Left-hand drive



- Right-hand drive



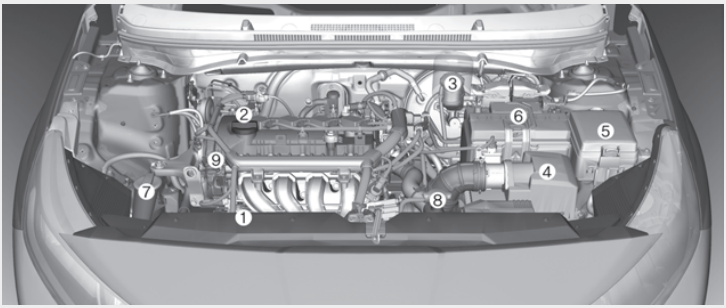
The actual engine room in the vehicle may differ from the illustration.

OBC3090001/OBC3090001R

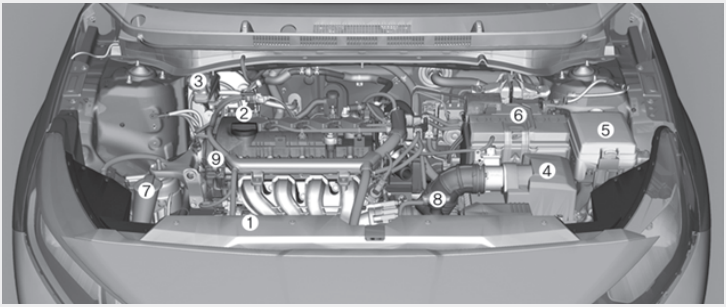
1. Engine coolant reservoir
2. Engine oil filler cap
3. Brake/clutch* fluid reservoir
4. Air cleaner
5. Fuse box
6. Battery
7. Windshield washer fluid reservoir
8. Radiator cap
9. Engine oil dipstick

*: if equipped

■ Smartstream G1.2
- Left-hand drive



- Right-hand drive



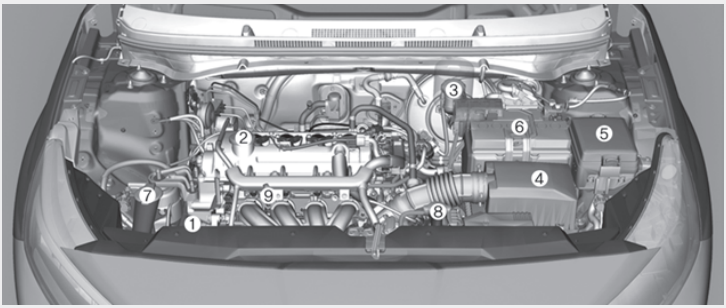
The actual engine room in the vehicle may differ from the illustration.

OBC3090003/OBC3090003R

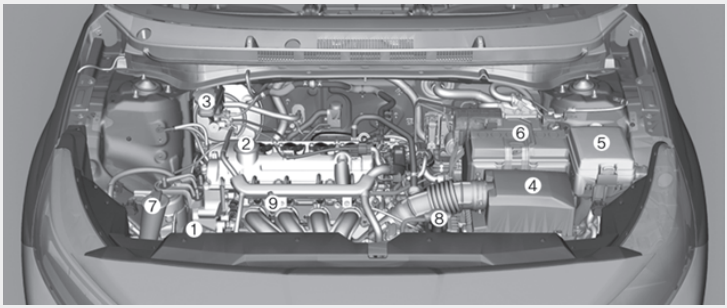
1. Engine coolant reservoir
2. Engine oil filler cap
3. Brake/clutch* fluid reservoir
4. Air cleaner
5. Fuse box
6. Battery
7. Windshield washer fluid reservoir
8. Radiator cap
9. Engine oil dipstick

*: if equipped

■ Gasoline 1.4
- Left-hand drive



- Right-hand drive



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

OBC3090004/OBC3090004R

1. Engine coolant reservoir
2. Engine oil filler cap
3. Brake/clutch* fluid reservoir
4. Air cleaner
5. Fuse box
6. Battery
7. Windshield washer fluid reservoir
8. Radiator cap
9. Engine oil dipstick

*: if equipped

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 automatic transmission/dual clutch 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 that should be performed by the owner or an authorized HYUNDAI dealer at the frequencies indicated to help ensure safe, dependable operation of your vehicle.

Any adverse conditions should be brought to the attention of your dealer as soon as possible.

These Owner Maintenance vehicle checks are generally not covered by warranties and you may be charged for labor, parts and lubricants used.

Owner maintenance schedule

When you stop for fuel:

- Check the coolant level in the engine coolant reservoir.
- Check the windshield washer fluid level.
- Check for low or under-inflated tires.
- Check the radiator and condenser.

  Check if the front of the radiator and condenser are clean and not blocked with leaves, dirt or insects, etc.

  If any of the above parts are extremely dirty or you are not sure of their condition, we recommend that you contact an authorized HYUNDAI dealer.

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 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 headlight 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.
- Lubricate door checker
- Check the air conditioning system.
- Inspect and lubricate automatic transmission linkage and controls.
- Clean the battery and terminals.
- Check the brake fluid level.

SCHEDULED MAINTENANCE SERVICES

Follow Normal Maintenance Schedule if the vehicle is usually operated where none of the following conditions apply.

If any of the following conditions apply, you must follow the Maintenance Under Severe Usage Conditions.

- Repeated driving short distance of less than 8 km (5 miles) in normal temperature or less than 16 km (10 miles) in freezing temperature
- Low speed driving for long distances
- Driving on rough, dusty, muddy, unpaved, graveled or salt-spread roads
- Driving in areas using salt or other corrosive materials or in very cold weather
- Driving in heavy dust condition
- Driving in heavy traffic areas
- Driving on an uphill, downhill, or mountain road repeatedly
- Towing a trailer or using a camper, or driving with loads on the roof
- Driving as a patrol car, taxi, other commercial use of vehicle towing
- Frequently driving under high speed or rapid acceleration/deceleration
- Frequently driving in stop-and-go conditions
- Engine oil usage which is not recommended (Mineral type, Semi-synthetic, Lower
- grade spec, etc.)

If your vehicle is operated under the above conditions, you should inspect, replace or refill more frequently than the following Normal Maintenance Schedule. After the periods or distance shown in the chart, continue to follow the prescribed maintenance intervals.

Information

- **As it is normal for engine oil to be consumed during driving, the engine oil level should be checked on regular basis.**
- **The engine oil change interval for normal operating conditions is based on the use of the recommended engine specification. If the recommended engine oil specification is not used, then replace the engine oil according to the maintenance schedule under severe operating conditions.**

Normal Maintenance Schedule (For Europe)

MAINTENANCE INTERVALS / MAINTENANCE ITEM		Number of months or driving distance, whichever comes first							
	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
Drive belts *1		At first, inspect at 90,000 km (60,000 miles) or 72 months after that, inspect every 30,000 km (20,000 miles) or 24 months							
MHEV (Mild Hybrid) belt	Smartstream G1.0 T-GDi (48V) MHEV	Inspect 15,000 km (10,000 miles) or 12 months Replace every 105,000 km (65,200 miles) or 84 months							
Engine oil and engine oil filter *2	Smartstream G1.0 T-GDI/Smartstream G1.0 T-GDI (48V) MHEV Smartstream G 1.2 *2	Replace every 15,000 km (10,000 miles) or 12 months							
	Gasoline 1.4	Replace every 15,000 km (10,000 miles) or 12 months							
Fuel additive *3		Add every 15,000 km (10,000 miles) or 12 months							
Intercooler, in/out hose, air intake hose	T-GDI (48V MHEV)	Inspect every 15,000 km (10,000 miles) or 12 months							
Air cleaner filter		I	R	I	R	I	R	I	R

I : Inspect and if necessary, adjust, correct, clean or replace.

R : Replace or change.

** : 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.

*1 : Inspect drive belt tensioner, idler and alternator pulley and if necessary correct or replace.

*2 : Requires <API SN PLUS (or above) Full synthetic>grade engine oil. If a lower grade engine oil is used, then the engine oil and engine oil filter must be replaced at every 7,500km (4,500 miles) or 6 months as indicated for severe maintenance condition.

*3 : Requires <API Latest(ILSAC Latest) Full synthetic> grade engine oil. If a lower grade engine oil is used, then the engine oil and engine oil filter must be replaced at every 7,500km (4,500 miles) or 6 months as indicated for severe maintenance condition.

*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.

Normal Maintenance Schedule (For Europe) (Cont.)

MAINTENANCE INTERVALS / MAINTENANCE ITEM		Number of months or driving distance, whichever comes first							
	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
Spark plugs	T-GDI (48V MHEV)	Replace every 75,000 km (50,000 miles) *4 or 60 months							
	Smartstream G 1.2/ Gasoline 1.4	Replace every 150,000 km (100,000 miles) *4 or 120 months							
Vapor hose and fuel filler cap			I		I		I		I
Fuel tank air filter			I		I		I		I
Fuel filter *5		I	I	I	I	I	I	I	I
Fuel lines, hoses and connections			I		I		I		I
Cooling system		Inspect “Coolant level adjustment and leak” every day At first, inspect at 60,000 km (40,000 miles) or 48 months after that, inspect every 30,000 km (20,000 miles) or 24 months							
Engine coolant *6		At first, replace at 210,000 km (140,000 miles) or 10 years: after that, replace every 30,000 km (20,000 miles) or 24 months *7							
All electrical systems		I	I	I	I	I	I	I	I
Battery condition		I	I	I	I	I	I	I	I

I : Inspect and if necessary, adjust, correct, clean or replace.

R: Replace or change.

*4: For your convenience, it can be replaced prior to its interval when you do maintenance of other items.

*5: 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., replace the fuel filter immediately regardless of maintenance schedule and consult an authorized HYUNDAI dealer for details.

*6: 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.

*7: For your convenience, it can be replaced prior to its interval when you do maintenance of other items.

Normal Maintenance Schedule (For Europe) (Cont.)

MAINTENANCE INTERVALS / MAINTENANCE ITEM	Number of months or driving distance, whichever comes first							
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
Brake lines, hoses and connections	I	I	I	I	I	I	I	I
Parking brake (if equipped)	I	I	I	I	I	I	I	I
Brake/Clutch fluid	Inspect every 15,000km (10,000 miles) and replace every 30,000km (20,000 miles)							
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	I	I	I
Tire (pressure & tread wear)	I	I	I	I	I	I	I	I
Front suspension ball joints	I	I	I	I	I	I	I	I
Air conditioner refrigerant	I	I	I	I	I	I	I	I
Air conditioner compressor	I	I	I	I	I	I	I	I
Climate control air filter	R	R	R	R	R	R	R	R
Manual transmission fluid *[8]		I		I		I		I
IMT system actuator fluid	R	R	R	R	R	R	R	R
IMT system clutch tube and line	I	I	I	I	I	I	I	I
Dual clutch transmission fluid *[8]		I		I		I		I
Automatic transmission fluid	No check, No service required							
Exhaust system	I	I	I	I	I	I	I	I
Pan-European eCall system battery (if equipped)	Replace every 3 years							

I : Inspect and if necessary, adjust, correct, clean or replace. R: Replace or change.

*[8]: Manual transmission/dual clutch transmission fluid should be changed anytime they have been submerged in water.

Maintenance Under Severe Usage and Low Mileage Conditions (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	T-GDI (48V MHEV)	R	Every 7,500 km (4,500 miles) or 6 months	A, B, C, D, E, F, G, H, I, J, K, L
	Smartstream G 1.2/Gasoline 1.4	R	Every 7,500 km (4,500 miles) or 6 months	
Air cleaner filter		R	Replace more frequently depending on the condition	C, E
Spark plugs		R	Replace more frequently depending on the condition	A, B, F, G, H, I, K
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 (if equipped)		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	R	Every 120,000 km (80,000 miles)	C, D, E, F, G, H, I, J
Automatic transmission fluid	R	Every 90,000 km (60,000 miles)	A, 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

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 : 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/ deceleration

K : Frequently driving in stop-and-go conditions

L : Engine oil usage which is not recommended (Mineral type, Semi-synthetic, Lower grade spec, etc.)

Normal Maintenance Schedule (Except Europe)

MAINTENANCE INTERVALS / MAINTENANCE ITEM		Number of months or driving distance, whichever comes first							
	Months	12	24	36	48	60	72	84	96
	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		Inspect every 30,000 km (20,000 miles) or 24 months							
MHEV (Mild Hybrid) belt	Smartstream G1.0 T-GDi (48V) MHEV	Inspect 10,000 km (6,000 miles) or 12 months Replace every 100,000km (60,000 miles)or 84 months							
Engine oil and engine oil filter	Smartstream G1.2 *2 / Gasoline 1.4 *4	R	R	R	R	R	R	R	R
	Smartstream G1.0 T-GDI/Smartstream G1.0 T-GDI (48V) MHEV *3	Replace every 10,000 km (6,200 miles) or 12 months							
Fuel additives *5		Add every 10,000 km (6,200 miles) or 12 months							

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 : Requires <API SN PLUS (or above) Full synthetic> grade engine oil. If a lower grade engine oil is used, then the engine oil and engine oil filter must be replaced at every 7,500km (4,500 miles) or 6 months as indicated for severe maintenance condition.

*3 : Requires <API SN PLUS (or above) Full synthetic> grade engine oil. If a lower grade engine oil is used, then the engine oil and engine oil filter must be replaced at every 5,000km (3,100 miles) or 6 months as indicated for severe maintenance condition.

*4 : Requires <API Latest(ILSAC Latest Full synthetic>) grade engine oil. If a lower grade engine oil is used, then the engine oil and engine oil filter must be replaced at every 7,500km (4,500 miles) or 6 months as indicated for severe maintenance condition.

*5 : 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.

Normal Maintenance Schedule (Except Europe) (Cont.)

MAINTENANCE INTERVALS / MAINTENANCE ITEM		Number of months or driving distance, whichever comes first							
	Months	12	24	36	48	60	72	84	96
	Miles×1,000	10	20	30	40	50	60	70	80
	Km×1,000	15	30	45	60	75	90	105	120
Intercooler, in/out hose, air intake hose	T-GDI (48V MHEV)	Inspect every 10,000 km (6,200 miles)							
Air cleaner filter	Except Middle East	I	I	R	I	I	R	I	I
	For Middle East	R	R	R	R	R	R	R	R
Spark plugs	T-GDI (48V MHEV)	Replace every 75,000 km (50,000 miles) *6 or 60 months							
	Smartstream G 1.2/ Gasoline 1.4	Replace every 150,000 km (100,000 miles) *6 or 120 months							
Vapor hose and fuel filler cap					I				I
Fuel tank air filter			I		R		I		R
Fuel filter *7			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 its interval when you do maintenance of other items.

*7: 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.., replace the fuel filter immediately regardless of maintenance schedule. We recommend that you consult an authorized HYUNDAI dealer for details.

Normal Maintenance Schedule (Except Europe) (Cont.)

MAINTENANCE INTERVALS / MAINTENANCE ITEM	Number of months or driving distance, whichever comes first							
Months	12	24	36	48	60	72	84	96
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 *8	At first, replace at 100,000km (60,000miles) or 5years : after that, replace every 40,000km (24,000 miles) or 24 months *6							
All electrical systems	I	I	I	I	I	I	I	I
Battery condition	I	I	I	I	I	I	I	I
Brake lines, hoses and connections	I	I	I	I	I	I	I	I
Parking brake (if equipped)	I	I	I	I	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
Tire (pressure & tread wear)	I	I	I	I	I	I	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 its interval when you do maintenance of other items.

*8: 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 its interval when you do maintenance of other items.

Normal Maintenance Schedule (Except Europe) (Cont.)

MAINTENANCE INTERVALS / MAINTENANCE ITEM	Number of months or driving distance, whichever comes first							
Months	12	24	36	48	60	72	84	96
Miles×1,000	10	20	30	40	50	60	70	80
Km×1,000	15	30	45	60	75	90	105	120
Front suspension ball joints	I	I	I	I	I	I	I	I
Air conditioner refrigerant	I	I	I	I	I	I	I	I
Air conditioner compressor	I	I	I	I	I	I	I	I
Climate control air filter	R	R	R	R	R	R	R	R
Manual transmission fluid *9				I				I
IMT system actuator fluid	I	R	I	R	I	R	I	R
IMT system clutch tube and line	I	I	I	I	I	I	I	I
Dual clutch transmission fluid *9				I				I
Automatic transmission fluid	No check, No service required							
Exhaust system		I		I		I		I
Pan-European eCall system battery (if equipped)	Replace every 3 years							

I: Inspect and if necessary, adjust, correct, clean or replace.

R: Replace or change.

*9: Manual transmission/Dual clutch transmission fluid should be changed anytime they have been submerged in water.

Maintenance Under Severe Usage and Low Mileage Conditions (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	MPI	R	7,500 km (4,500 miles) or 6 months	A, B, C, D, E, F, G, H, I, J, K, L
	T-GDI (48V MHEV)		Replace every 5,000 km (3,100 miles) or 6 months	
Air cleaner filter		R	Replace more frequently depending on the condition	C, E
Spark plugs		R	Replace more frequently depending on the condition	A, B, F, G, H, I, K
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 (if equipped)		I	Inspect more frequently depending on the condition	C, D, G, H

Maintenance item	Maintenance operation	Maintenance intervals	Driving condition
Driveshaft and boots	I	Inspect more frequently depending on the condition	C, D, E, F, G, H, I, J
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
Automatic transmission fluid	R	Every 100,000 km (62,000 miles)	A, 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

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 driving with loads on the roof

I : Driving as patrol car, taxi, commercial car or vehicle towing

J : Frequently driving under high speed or rapid acceleration/ deceleration

K : Frequently driving in stop-and-go conditions

L : Engine oil usage which is not recommended (Mineral type, 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 (Except Europe)

A clogged filter can limit the speed at which the vehicle may be driven, damage the emission system and cause multiple issues such as hard starting.

If an excessive amount of foreign matter accumulates in the fuel tank, the filter may require replacement more frequently.

After installing a new filter, run the engine for several minutes, and check for leaks at the connections. We recommend that the fuel filter be replaced by an authorized HYUNDAI dealer.

Fuel filter (For Europe)

This gasoline powered vehicle is equipped with a lifetime fuel filter that is integrated with the fuel tank. Regular maintenance or replacement is not needed; however, the quality of fuel used may impact the frequency of maintenance needed. If there are any fuel related problems like fuel flow restriction, surging, loss of power, hard starting problem etc., fuel filter inspection or replacement may be needed. We recommend the fuel filter be inspected or 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.

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 assure 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 those 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.

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/IMT system actuator fluid (if equipped)

Inspect the Manual transmission fluid/ IMT system actuator fluid according to the maintenance schedule.

Automatic transmission fluid (if equipped)

Automatic transmission fluid should not be checked under normal usage conditions.

We recommend that the automatic transmission fluid is changed by an authorized HYUNDAI dealer according to the maintenance schedule.

Information

Automatic transmission fluid color is red when new.

As the vehicle is driven, the automatic transmission fluid will begin to look darker.

This is a normal condition. It does not need to be replaced based on the color change.

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 brake/clutch fluid level in the brake fluid reservoir. The level should be between “MIN” (Minimum) and “MAX” (Maximum) marks on the side of the reservoir. Use only hydraulic brake/clutch fluid conforming to DOT 4 specification.

Parking brake

Inspect the parking brake system including the parking brake lever and cables.

Rear brake drums and linings (if equipped)

Check the rear brake drums and linings for scoring, burning, leaking fluid, broken parts, and excessive wear.

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)

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.

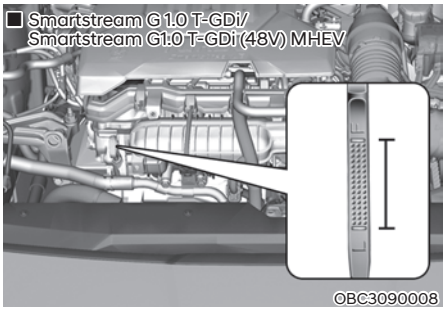
ENGINE OIL

Engine oil is used for lubricating, cooling, and operating various hydraulic components in the engine. Engine oil consumption while driving is normal, and it is necessary to check and refill the engine oil regularly. Also, check and refill the oil level within the recommended maintenance schedule to prevent deterioration of oil performance.

Check the engine oil following the below procedure.

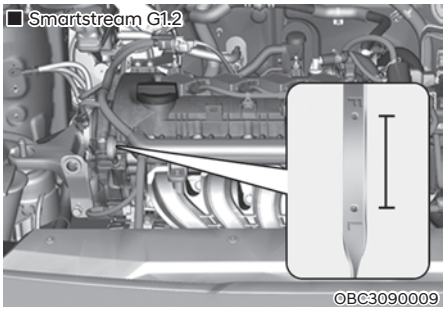
Checking the engine oil level

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



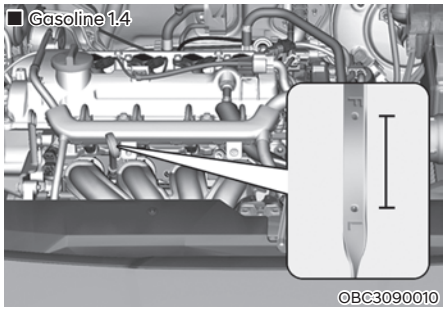
OBC3090008

■ Smartstream G1.2



OBC3090009

■ Gasoline 1.4



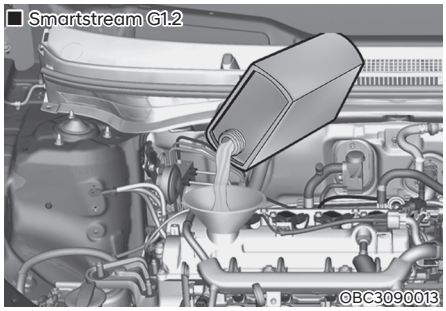
OBC3090010

1. Follow all of the oil manufacturer's precautions.
2. Be sure the vehicle is on the level ground in P (Park) with the parking brake set and the wheels blocked.
3. Turn the engine on and warm the engine up until the coolant temperature reaches a constant normal temperature.
4. Turn the engine off, remove the oil filler cap and pull the dipstick out. Wait for 15 minutes for the oil to return to the oil pan.
5. Wipe the dipstick clean and re-insert it fully.
6. Pull the dipstick out again and check the level. The level should be between the F-L line.

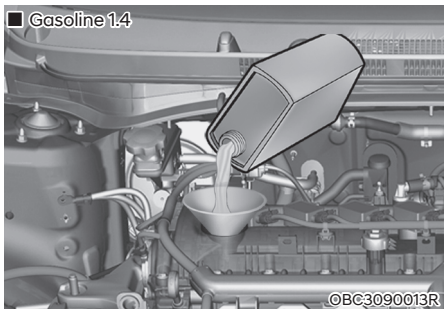
■ Smartstream G1.0 T-GDi/
Smartstream G1.0 T-GDi (48V) MHEV



■ Smartstream G1.2



■ Gasoline 1.4



7. If the oil level is below the L, add enough oil to bring the level to F.

Use only the specified engine oil (Refer to “Recommended Lubricants and Capacities” section in chapter 2).

NOTICE

To prevent damage to your engine:

- **Do not spill engine oil when adding or changing engine oil. Wipe off spilled oil immediately.**
- **The engine oil consumption may increase while you break in a new vehicle and it will be stabilized after driving 6,000 km (4,000 miles).**
- **The engine oil consumption can be affected by driving habits, climate conditions, traffic conditions, oil quality, etc. Therefore, it is recommended that you inspect the engine oil level regularly and refill it if necessary.**

Checking the engine oil and filter



- We recommend that the engine oil and filter be replaced by an authorized HYUNDAI dealer.
- If the maintenance schedule to replace engine oil is exceeded, the engine oil performance may deteriorate, and the engine condition may be affected. Therefore, replace the engine oil according to the maintenance schedule.
- To keep the engine in optimal condition, use the recommended engine oil and filter. If the recommended engine oil and filter are not used replace it according to the maintenance schedule under severe usage conditions.
- The purpose of the maintenance schedule for engine oil replacement is to prevent oil deterioration and it is irrelevant to oil consumption. Check and refill engine oil regularly.

WARNING

Used engine oil may cause irritation or cancer of the skin if left in contact with the skin for prolonged periods of time. Used engine oil contains chemicals that have caused cancer in laboratory animals. Always protect your skin by washing your hands thoroughly with soap and warm water as soon as possible after handling used oil.

Information

When the oil pressure is low due to insufficient engine oil, the Engine Oil Pressure (🛢) warning light will illuminate. In addition, the enhanced engine protection system, which limits the engine's power is activated and the Malfunction Indicator Lamp (🔧) will illuminate when the vehicle is driven in this state continuously. When oil pressure is restored, the Engine Oil Pressure warning light will turn off and the engine power will no longer be limited.

CAUTION

The engine oil is very hot immediately after the vehicle has been driven and can cause burns during replacement. Replace the engine oil after the engine oil has cooled down.

ENGINE COOLANT

The high-pressure cooling system has a reservoir filled with year-round antifreeze coolant. The reservoir is filled at the factory.

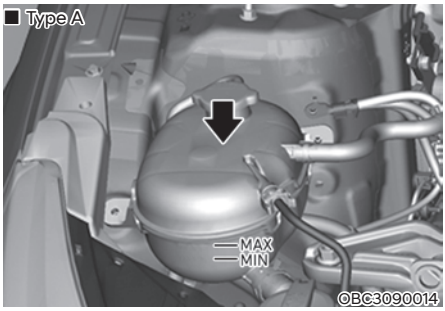
Check the antifreeze protection and coolant concentration level at least once a year, at the beginning of the winter season, and before traveling to a colder climate.

NOTICE

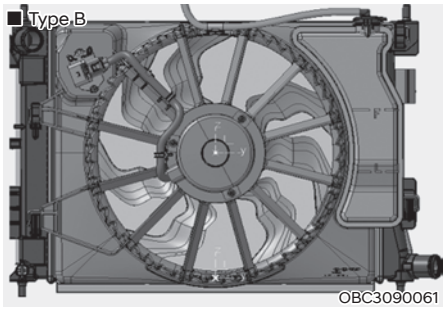
- **When the engine overheats from low engine coolant, suddenly adding engine coolant may cause cracks in the engine. To prevent damage, add engine coolant slowly in small quantities.**
- **Do not drive with no engine coolant. It may cause water pump failure and engine seizure, etc.**

Checking the coolant level

■ Type A



■ Type B



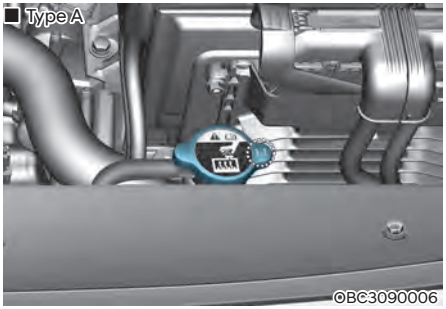
Check the condition and connections of all cooling system hoses and heater hoses. Replace any swollen or deteriorated hoses.

The coolant level should be filled between [F (Full)] and [L (Low)] marked on the side of the coolant reservoir when the engine is cool.

If the coolant level is low, add enough distilled (deionized) water.

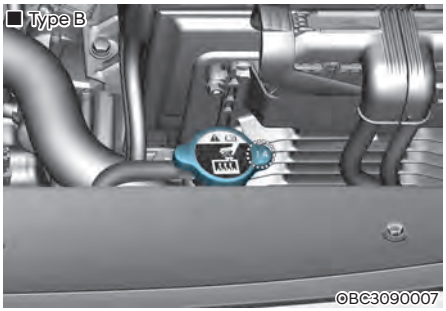
Bring the level to [F(Full)], but do not overfill. If frequent additions are required, we recommend that the system be inspected by an authorized HYUNDAI dealer.

❑ Type A



OBC3090006

❑ Type B



OBC3090007

WARNING



Do not remove a radiator cap/ engine coolant reservoir cap.

- **Never attempt to remove the radiator cap/engine coolant reservoir cap while the engine is operating or hot.**
- **Doing so might lead to cooling system failure and engine damage and could result in serious personal injury from escaping hot coolant or steam.**
- **Turn the engine off and wait until it cools down. Use extreme care when removing the radiator cap/engine coolant reservoir 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.**
- **Even if the engine is not operating, do not remove the radiator cap/engine coolant reservoir cap or the drain plug while the engine and radiator are hot. Hot coolant and steam may still blow out under pressure, causing serious injury.**

WARNING

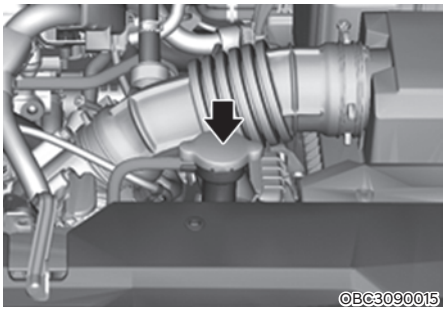


The electric motor (cooling fan) is controlled by engine coolant temperature, refrigerant pressure and vehicle speed.

It may sometimes operate even when the engine is not running. Use extreme caution when working near the blades of the cooling fan so that you are not injured by a rotating fan blade. As the engine coolant temperature decreases, the electric motor will automatically shut off. This is a normal condition.

The electric motor (cooling fan) may operate until you disconnect the negative battery cable.

WARNING



1. **Check if the radiator cap label is straight in front.**
2. **Make sure that the tiny protrusions inside the radiator cap should be securely interlocked.**

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 a phosphate-based ethylene-glycol coolant to prevent corrosion and freezing.
- DO NOT USE alcohol or methanol coolant or mix them with the specified coolant.
- Do not use a solution that contains more than 60% antifreeze or less than 35% antifreeze, which would reduce the effectiveness of the solution.

For 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

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 according to the Maintenance Schedule at the beginning of this chapter.

NOTICE

Put a thick cloth or fabric around the radiator cap before refilling the coolant in order to prevent the coolant from overflowing into engine parts such as alternator.

WARNING

Do not use engine coolant or antifreeze in the washer fluid reservoir.

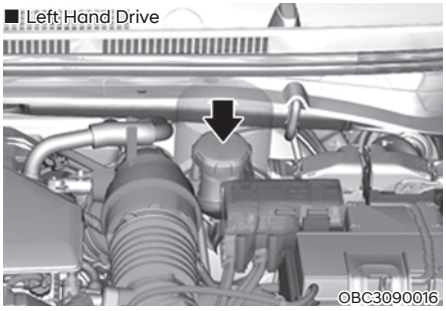
Engine coolant can severely obscure visibility when sprayed on the windshield and may cause loss of vehicle control resulting in an accident.

Engine coolant may also cause damage to paint and body trim.

BRAKE/CLUTCH FLUID (IF EQUIPPED)

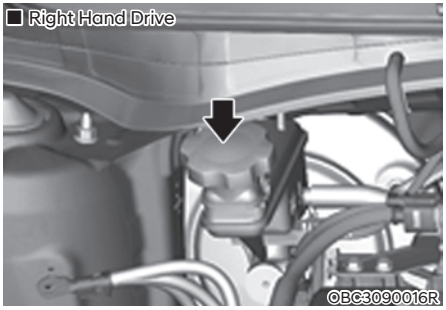
Checking the brake/clutch fluid level

■ Left Hand Drive



OBC3090016

■ Right Hand Drive



OBC3090016R

Check the fluid level in the reservoir periodically. The fluid level should be between MAX and MIN marks on the left or right 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.

Information

Use only the specified brake/clutch fluid. Refer to "Recommended lubricants and capacities" in chapter 2.

Information

Before removing the brake/clutch filler cap, read the warning on the cap.

Information

Clean the filler cap before removing. Use only 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

Checking the IMT system actuator fluid level

In normal driving conditions, the actuator fluid level does not go down rapidly.

However, the 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 the 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 that the IMT system actuator requires frequent additions of fluid, you should 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 accidentally comes 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

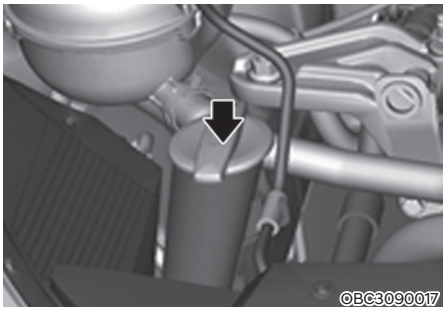
Do not allow IMT system actuator fluid to contact the vehicle's body paint, as paint damage will result.

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 anti-freeze characteristics in cold climates to prevent freezing.

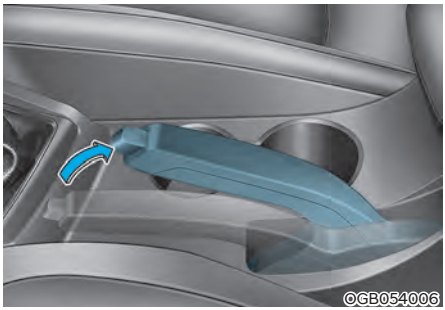
WARNING

To prevent serious injury or death, take the following safety precautions when using washer fluid:

- **Do not use engine coolant or anti-freeze 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



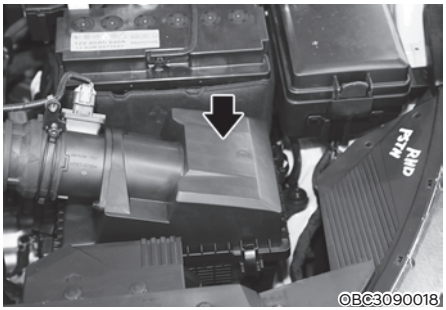
Check the stroke of the parking brake by counting the number of “clicks” heard while fully applying it from the released position.

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 inspected by an authorized HYUNDAI dealer.

Stroke: 5~7 “clicks” at a force of 20 kg (44 lbs, 196 N).

AIR CLEANER

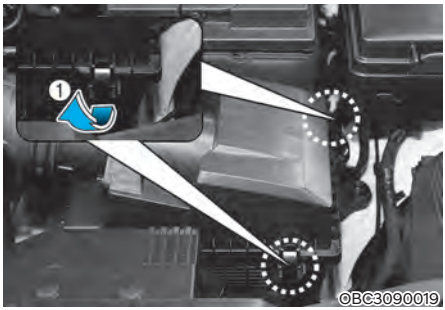
Filter replacement

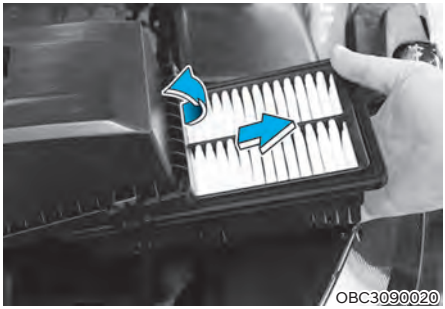


The air cleaner filter can be cleaned for inspection using compressed air.

Do not attempt to wash or to rinse it, as water will damage the filter.

If soiled, the air cleaner filter must be replaced.





1. Loosen the air cleaner cover attaching clips and open the cover.
2. Wipe the inside of the air cleaner.
3. Replace the air cleaner filter.
4. Lock the cover with the cover attaching clips.
5. Check that the cover is firmly installed.

Information

If the vehicle is operated in extremely dusty or sandy areas, replace the parts more often than the usual recommended intervals (refer to "Maintenance Under Severe Usage Conditions" in this chapter).

NOTICE

- **Do not drive with the air cleaner filter removed. This will result in excessive engine wear.**
- **When removing the air cleaner filter, be careful that dust or dirt does not enter the air intake, or damage may result.**
- **Use HYUNDAI genuine parts or the equivalent specified one for your vehicle. Use of non-genuine parts could damage the air flow sensor.**

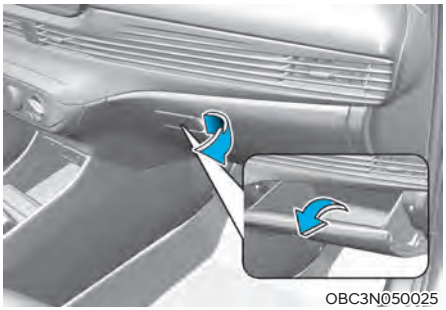
CLIMATE CONTROL AIR FILTER

Filter inspection

The climate control air filter should be replaced according to the Maintenance Schedule. If the vehicle is operated in severely air-polluted cities or on dusty rough roads for a long period, it should be inspected more frequently and replaced earlier. When you replace the climate control air filter, replace it by performing the following procedure, and be careful to avoid damaging other components.

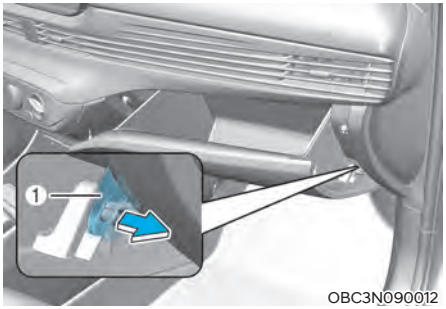
Replace the filter according to the Maintenance Schedule.

Filter replacement



OBC3N050025

1. Open the glove box.



OBC3N090012

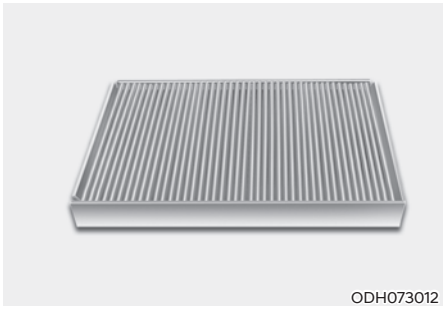
2. Push in both sides of the glove box as shown. This will ensure that the glove box stopper pins will get released from its holding location allowing the glove box to hang.



OBC3090023

3. Press and hold the lock on the right side of the cover.
4. Pull out the cover.
5. Replace the climate control air filter.
6. Reassemble in the reverse order of disassembly.

NOTICE



ODH073012

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.**

Information

Commercial hot waxes applied by automatic car washes have been known to make the windshield difficult to clean.

Information

Wiper blades are consumable items. Normal wear of the wipers may not be covered by your vehicle warranty.

Blade replacement

When the wipers no longer clean the windshield adequately, the blades may be worn or cracked, and require replacement.

CAUTION

- **In order to prevent damage to the hood and the wiper arms, the wiper arms should only be lifted when it is the top wiping position.**
- **Always return the wiper arms to the windshield before driving.**

Front windshield wiper blade


OBR2089019BR



OBR2089020BR

1. Raise the wiper arm.
2. Press and hold the both wiper blade clip (1) and remove the blade from the wiper arm.
3. Install the new blade assembly.
4. Return the wiper arm on the windshield.

Rear window wiper blade (if equipped)



OLMB073023

1. Raise the wiper arm and rotate the wiper blade assembly (1).
2. Pull out the wiper blade assembly.


OLMB073024

3. Install the new blade assembly by inserting the center part into the slot in the wiper arm until it clicks into place.
4. Make sure the blade assembly is installed firmly by trying to pull it slightly.

To prevent damage to the wiper arms or other components, we recommend that the wiper blade 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.



Batteries contain sulfuric acid which is highly corrosive. Do not allow acid to contact your eyes, skin or clothing.

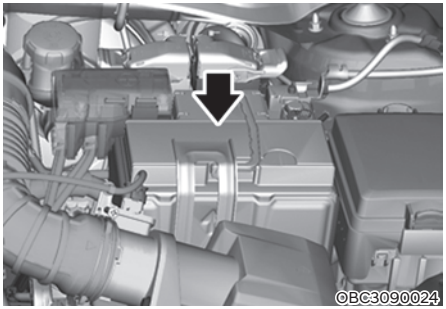
If acid gets into your eyes, flush your eyes with clean water for at least 15 minutes and get immediate medical attention. If acid gets on your skin, thoroughly wash the area. If you feel pain or a burning sensation, get medical attention immediately.

- **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 Engine Start/Stop button is in the ON position.**
- **Do not allow the (+) and (-) jumper cables to touch. It may cause sparks.**
- **The battery may rupture or explode when you jump start with a low or frozen battery.**
- **Leaked battery electrolyte due to repeated driving on sharp curves (e.g. on circuits) may cause safety problem. Avoid repeated driving on sharp curves.**

NOTICE

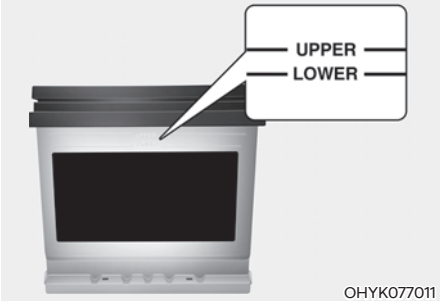
If you connect unauthorized electronic devices to the battery, the battery may be discharged. Never use unauthorized devices.

For best battery service



- Keep the battery securely mounted.
- Keep the battery top clean and dry.
- Keep the terminals and connections clean, tight, and coated with petroleum jelly or terminal grease.
- Rinse any spilled electrolyte from the battery immediately with a solution of water and baking soda.
- If the vehicle is not going to be used for an extended time, disconnect the battery cables.

Information
- For batteries marked with UPPER and LOWER



If your vehicle is equipped with a battery marked with LOWER (MIN) and UPPER (MAX) on the side, you should check the electrolyte level.

The electrolyte level should be between LOWER (MIN) and UPPER (MAX). When the electrolyte level is low, add distilled (or de-mineralized) water. (Never add sulfuric acids or other electrolyte).

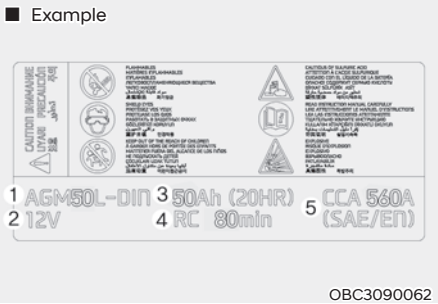
Be careful not to spill distilled (or de-mineralized) water over the battery surface or other adjacent components.

Also, do not overfill the battery cells.

If not, it may corrode the battery or other components. Finally, securely close the cell cap. However, we recommend you to contact an authorized HYUNDAI dealer for better battery service.

Battery capacity label

■ Example



❈ The actual battery label in the vehicle may differ from the illustration.

1. AGM50L-DIN: The HYUNDAI model name of battery
2. 12V: The nominal voltage
3. 50Ah (20HR): The nominal capacity (in Ampere hours)
4. RC 80: The nominal reserve capacity (in min.)
5. CCA 560A: Cold-test current in amperes by SAE/EN

Battery recharging

Your vehicle has a maintenance-free, calcium-based battery.

- If the battery becomes discharged over a short time (for example, the headlights or interior lights were on while the vehicle was not in use), recharge it by slow charging (trickle) for 10 hours.
- If the battery gradually discharges because of high electrical load while the vehicle is being used, recharge it at 20-30A for two hours.

WARNING

When recharging the battery, observe the following precautions:

- **Before performing maintenance or recharging the battery, turn off all accessories and stop the engine.**
- **Do not allow cigarettes, sparks, or flame near the battery.**
- **Wear eye protection when checking the battery during charging.**
- **The battery must be removed from the vehicle and placed in an area with good ventilation.**
- **Watch the battery during charging, and stop or reduce the charging rate if the battery cells begin gassing (boiling) violently or if the temperature of the electrolyte of any cell exceeds 49°C (120°F).**
- **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 main battery charger switch.**
  2. **Unhook the negative clamp from the negative battery terminal.**
  3. **Unhook the positive clamp from the positive battery terminal.**

NOTICE

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 at least 30 minutes or operate at idle for at least 60 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 8 for more details on jump starting procedures.

Information



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

Reset items

Items should be reset after the battery has been discharged or the battery has been disconnected.

- Auto up/down window (See chapter 5)
- Trip computer (See chapter 4)
- Climate control system (See chapter 5)

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 left side center pillar.

Recommended cold tire inflation pressures

All tire pressures (including the spare) should be checked when the tires are cold. “Cold tires” means the vehicle has not been driven for at least three hours or driven less than 1.6 km (one 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.

NOTICE

- **Underinflation also results in excessive wear, poor handling and reduced fuel economy. Wheel deformation also is possible. Keep your tire pressures at the proper levels. If a tire frequently needs refilling, we recommend that the system be checked by an authorized HYUNDAI dealer.**
- **Overinflation 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 cannot tell if your tires are properly inflated simply by looking at them. Radial tires may look properly inflated even when they are underinflated.

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.

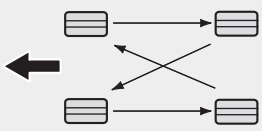
Tire rotation

To equalize tread wear, HYUNDAI recommends that the tires be rotated every 15,000 km (10,000 miles) or sooner if irregular wear develops.

During rotation, check the tires for correct balance.

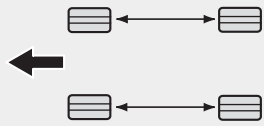
When rotating tires, check for uneven wear and damage. Abnormal wear is usually caused by incorrect tire pressure, improper wheel alignment, out-of-balance wheels, severe braking or severe cornering. Look for bumps or bulges in the tread or side of the tire. Replace the tire if you find any of these 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 11~13kgf.m (79~94 lbf.ft, 107~127N.m).

■ Without a spare tire



CBGQ0707

■ Directional tires (if equipped)



CBGQ0707A

Disc brake pads should be inspected for wear whenever tires are rotated.

Information

The outside and inside of the unsymmetrical tire is distinguishable. When installing an unsymmetrical tire, be sure to install the side marked "outside" face the outside. If the side marked "inside" is installed on the outside, it will have a negative effect on vehicle performance.

WARNING

- **Do not use the compact spare tire for tire rotation.**
- **Do not mix bias ply and radial ply tires under any circumstances. This may cause unusual handling characteristics that may cause loss of vehicle control resulting in an accident.**

Wheel alignment and tire balance

The wheels on your vehicle were aligned and balanced carefully at the factory to give you the longest tire life and best overall performance.

In most cases, you will not need to have your wheels aligned again. However, if you notice unusual tire wear or your vehicle pulling one way or the other, the alignment may need to be reset.

If you notice your vehicle vibrating when driving on a smooth road, your wheels may need to be rebalanced.

NOTICE

Incorrect wheel weights can damage your vehicle's aluminum wheels. Use only approved wheel weights.

Tire replacement



If the tire is worn evenly, a tread wear indicator will appear as a solid band across the tread. This shows there is less than 1.6 mm (1/16 in.) of tread left on the tire. Replace the tire when this happens.

Do not wait for the band to appear across the entire tread before replacing the tire.

WARNING

To reduce the risk of DEATH or SERIOUS INJURY:

- **Replace tires that are worn, show uneven wear, or are damaged. Worn tires can cause loss of braking effectiveness, steering control, and traction.**
- **Always replace tires with the same size as each tire that was originally supplied with this vehicle. Using tires and wheels other than the recommended sizes could cause unusual handling characteristics, poor vehicle control, or negatively affect your vehicle's Anti-Lock Brake System (ABS) resulting in a serious accident.**
- **When replacing tires (or wheels), it is recommended to replace the two front or two rear tires (or wheels) as a pair. Replacing just one tire can seriously affect your vehicle's handling.**
- **Tires degrade over time, even when they are not being used. Regardless of the remaining tread, HYUNDAI recommends that tires be replaced after 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.

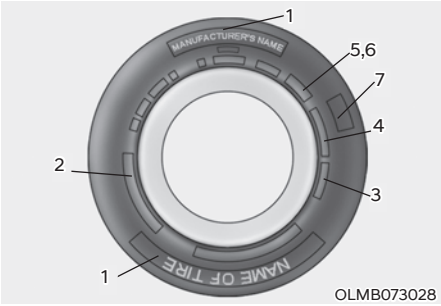
Tire maintenance

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.)

185/65R15 88 H

185 - Tire width in millimeters.

65 - Aspect ratio. The tire's section height as a percentage of its width.

R - Tire construction code (Radial).

15 - Rim diameter in inches.

88 - 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:

6.0J X 15

6.0 - Rim width in inches.

J - Rim contour designation.

15 - 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	270 km/h (168 mph)
Y	300 km/h (186 mph)

3. Checking tire life (TIN: Tire Identification Number)

Any tires that are over six years old, based on the manufacturing date, (including the spare tire) should be replaced by new ones. You can find the manufacturing date on the tire sidewall (possibly on the inside of the wheel), displaying the DOT Code. The DOT Code is a series of numbers on a tire consisting of numbers and English letters. The manufacturing date is designated by the last four digits (characters) of the DOT code.

DOT: 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:

TREADWEAR 200

TRACTION AA

TEMPERATURE A

Tread wear

The tread wear grade is a comparative rating based on the wear rate of the tire when tested under controlled conditions on a specified government test course. For example, a tire graded 150 would wear one-and-a-half times (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

Low aspect ratio tires, the aspect ratio is lower than 50, are provided for sporty looks.

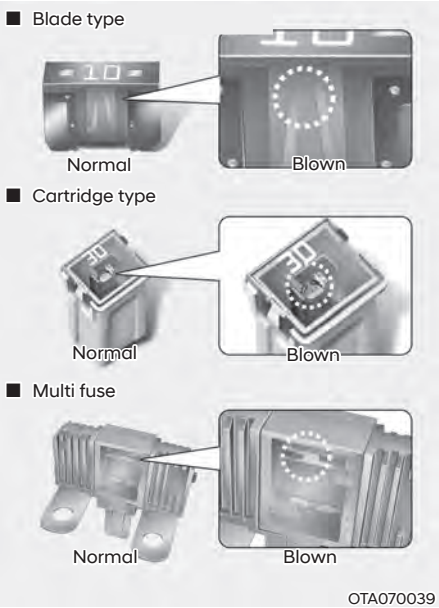
Because low aspect ratio tires are optimized for handling and braking, their sidewall is a little stiffer than a standard tire. Also, low aspect ratio tires tend to be wider so that they consequently have a greater contact patch with the road surface. In some instances, they may generate more road noise compared with standard tires.

CAUTION

Because the sidewall of a low aspect ratio tire is shorter than a standard tire, the rim of the wheel and the tire itself are more easily susceptible to damage. Use caution when driving and follow the guidelines below to help minimize damage to the wheel and tire:

- **When driving on a rough road or driving off a road, be careful not to damage the tires and wheels. After driving, inspect the tires and wheels.**
- **When passing over a pothole, speed bump, manhole, or curb stone, drive the vehicle slowly so as not to damage the tires and wheels.**
- **If the tire is subjected to a severe impact, we recommend you have the tire and wheel inspected by an authorized HYUNDAI dealer.**
- **Inspect the tire condition and pressure every 3,000 km (1,800 miles) to prevent tire damage.**
- **It is not easy to recognize tire damage with your own eyes. But if there is the slightest hint of tire damage, have the tire checked or replaced because the tire damage may cause air leakage from the tire.**
- **If the tire is damaged by driving on a rough road, off road, pothole, manhole, or curb stone, it will not be covered by the warranty.**

FUSES



A vehicle's electrical system is protected from electrical overload damage by fuses.

This vehicle has 2 (or 3) fuse panels, one located in the driver's side panel bolster, the other in the engine compartment.

If any of your vehicle's lights, accessories, or controls do not work, check the appropriate circuit fuse. If a fuse has blown, the element inside the fuse will be melted or broken.

If the electrical system does not work, first check the driver's side fuse panel. Before replacing a blown fuse, turn the engine and all switches off, and then disconnect the negative battery cable. Always replace a blown fuse with one of the same rating.

If the replacement fuse blows, this indicates an electrical problem. Avoid using the system involved and we recommend that all inspect an authorized HYUNDAI dealer.

Information

Three kinds of fuses are used: blade type for lower amperage ratings, 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.**

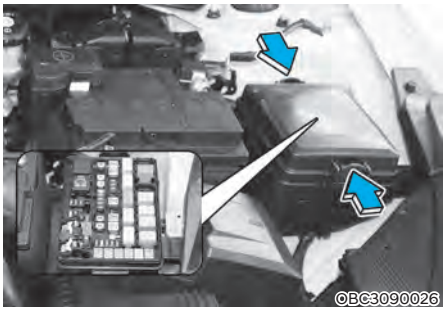
NOTICE

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 broken fuse location.

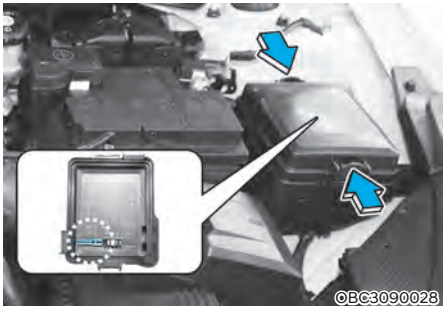


5. Pull the suspected fuse straight out. Use the removal tool provided in the engine compartment fuses panel.
6. Check the removed fuse; replace it if it is blown. Spare fuses are provided in the instrument panel fuse panels (or in the engine compartment fuse panel).
7. Push in a new fuse of the same rating, and make sure it fits tightly in the clips. If it fits loosely, we recommend that you consult with 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 such as the cigarette lighter fuse.

If the headlights 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.

Engine compartment panel fuse replacement

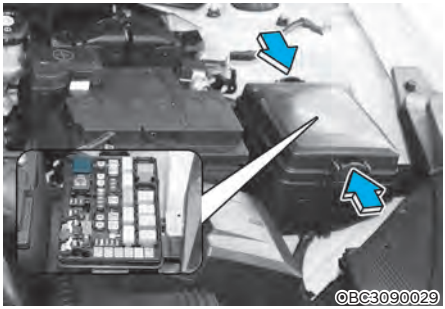


1. Turn the vehicle off.
2. Turn all other switches OFF.
3. Remove the fuse panel cover by pressing the tab and pulling up.
4. Check the removed fuse; replace it if it is blown. To remove or insert the fuse, use the fuse puller in the engine compartment fuse panel.
5. Push in a new fuse of the same rating, and make sure it fits tightly in the clips. If it does not fit tightly, we recommend that you consult 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.

Multi fuse (Main 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 with an authorized HYUNDAI dealer.

Fuse/relay panel description

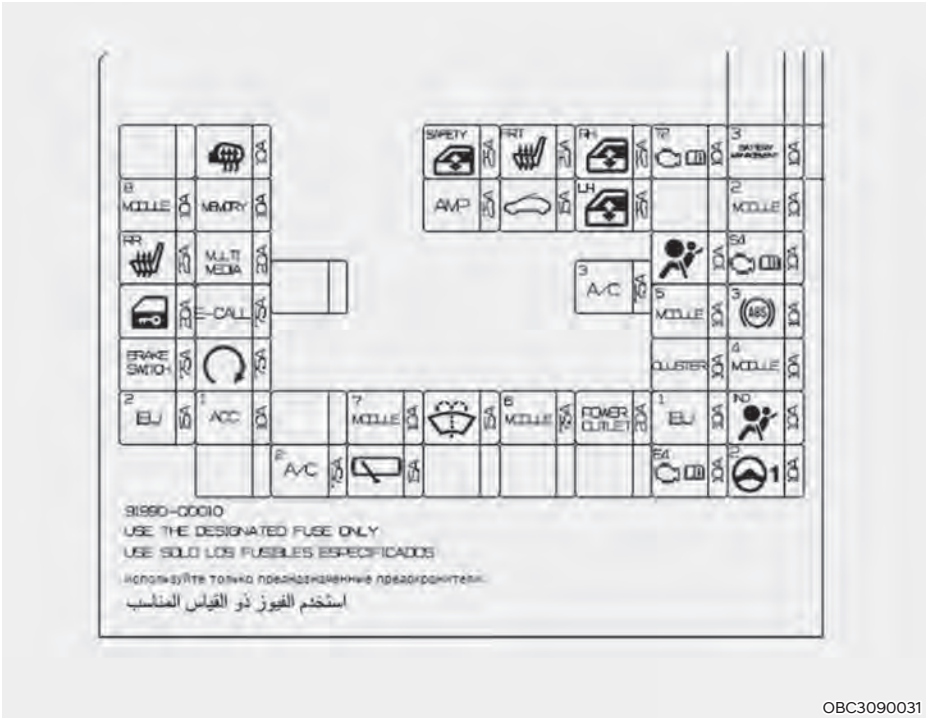
Driver's side fuse panel



Inside the fuse/relay box covers, you can find the fuse/relay label describing fuse/relay names and ratings.

Information

Not all fuse panel descriptions in this manual may be applicable to your vehicle. It is accurate at the time of printing. When you inspect the fuse box on your vehicle, refer to the fuse box label.



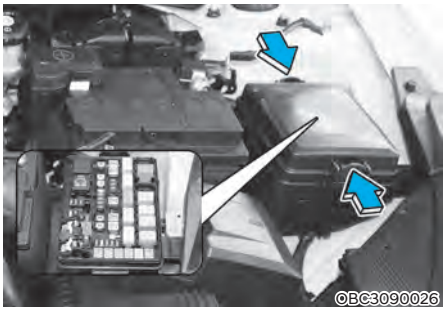
Driver's side fuse panel

Fuse Name	Symbol	(A)	Circuit Protected
HEATED MIRROR		10A	A/C Control Module, Driver/Passenger Power Outside Mirror
SAFETY P/WINDOW		25A	Driver Safety Power Window Module
FRONT SEAT WARMER		25A	Front Seat Warmer Control Module
P/WINDOW RH		25A	Power Window Main Switch, [LHD] Passenger Power Window Switch
TCU2		10A	[G3LE] Sport Mode Switch, TCM, Transmission Range Switch, Electronic Clutch Module, [M/T & RHD] Clutch Sensor, [G4LC] Transmission Range Switch
BATTERY MANAGEMENT3		10A	[MILD HEV - G3LE] BMS Control Module
MODULE 8		10A	Data Link Connector, Hazard Door Lock Switch
MEMORY		10A	Rain Sensor, A/C Control Module, Instrument Cluster, Outside Mirror Folding/Unfolding Relay
AMP		25A	AMP, Low DC-DC Converter (Audio)
SUNROOF		15A	Sunroof Motor
P/WINDOW LH		25A	Power Window Main Switch, [RHD] Passenger Power Window Switch
MODULE 2		10A	Sport Mode Switch, Stop Lamp Switch
REAR SEAT WARMER		25A	Rear Seat Warmer Control Module
MULTI MEDIA		20A	Audio 4.0, Display audio, A/V & Navigation Head Unit, Low DC-DC Converter (Audio/AMP)
AIR BAG		10A	SRS Control Module
SENSOR4		10A	[G3LE] CVVD Actuator, [G4LC] Electronic Oil Pump
A/C 3		7.5A	Blower Motor, A/C Control Module
DOOR LOCK		20A	Dead Lock Relay, Tail Gate Unlock Relay, Door Lock/Unlock Relay
E-CALL		7.5A	E-Call Unit

Driver's side fuse panel

Fuse Name	Symbol	(A)	Circuit Protected
MODULE 5	5 MODULE	10A	E-Call Unit, A/T Shift Lever Indicator, Audio 4.0, Display audio, A/V & Navigation Head Unit, Wireless Charger, Electro Chromic Mirror, Front Seat Warmer Control Module, Rear Seat Warmer Control Module, Low DC-DC Converter (ISG*NON 48V), AMP, A/C Control Module, Data Link Connector, Head lamp leveling device
ABS 3	3 ABS	10A	ESP Control Module
BRAKE SWITCH	BRAKE SWITCH	7.5A	IBU, Stop Lamp Switch
START		7.5A	[Smart Key] IBU, [key type] Ignition switch [ALL MT] ECM [G3LE/G4LC] Transmission Range Switch, 1.4 [ALL MT WITH SMK] IBU [G4LC]E/R Junction Block (RLY. 6) 1.4 MT*NON SMK
CLUSTER	CLUSTER	10A	Instrument Cluster
MODULE 4	4 MODULE	10A	Parking Collision Avoidance Assist Unit, IBU, Multifunction Camera Unit, Crash Pad Switch, Blind-Spot Collision Warning Unit LH/RH, Front Audio 4.0, Display audio
IBU 2	2 IBU	15A	IBU
ACC 1	1 ACC	10A	Audio 4.0, Display audio, A/V & Navigation Head Unit, E-Call Unit, IBU, Parking Collision Avoidance Assist Unit, AMP, Front Power Outlet #1, USB Charger, Low DC-DC Converter (ISG*NON 48V), Power Outside Mirror Switch, Power Outlet Relay
MODULE 7	7 MODULE	10A	Front Seat Warmer Control Module, Rear Seat Warmer Control Module, Parking Collision Avoidance Assist Unit
WASHER		15A	Multifunction Switch
MODULE 6	6 MODULE	7.5A	IBU
POWER OUTLET	POWER OUTLET	20A	Front Power Outlet
IBU 1	1 IBU	10A	IBU
AIR BAG IND	IND	10A	A/C Control Module, Instrument Cluster
A/C 2	2 A/C	7.5A	A/C Control Module, E/R Junction Block (RLY. 13/14)
WIPER RR		15A	E/R Junction Block (RLY. 7)
ECU 4	E4	10A	ECM/PCM
MDPS 2	2 1	10A	MDPS Unit

Engine compartment fuse panel

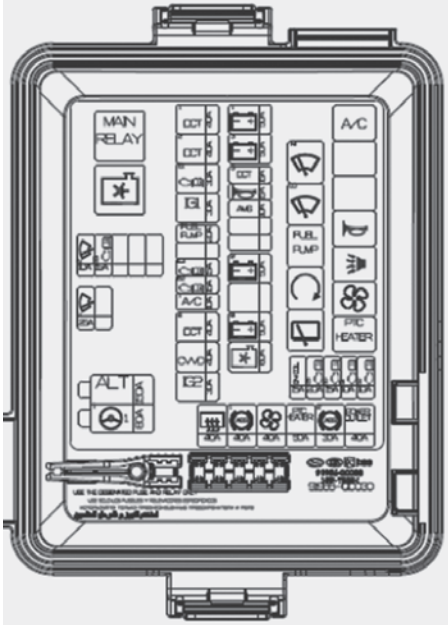


Inside the fuse/relay box covers, you can find the fuse/relay label describing fuse/relay names and ratings.

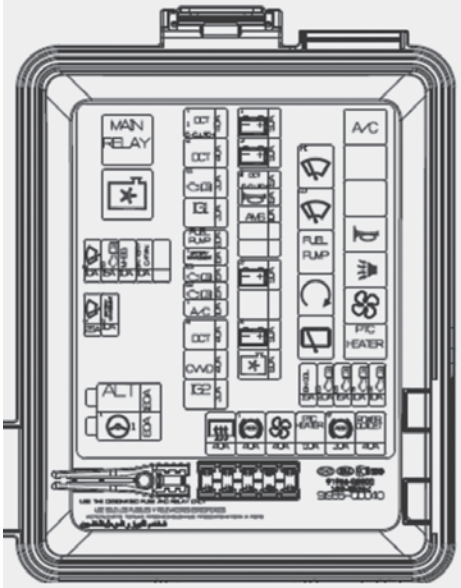
Information

Not all fuse panel descriptions in this manual may be applicable to your vehicle. It is accurate at the time of printing. When you inspect the fuse box on your vehicle, refer to the fuse box label.

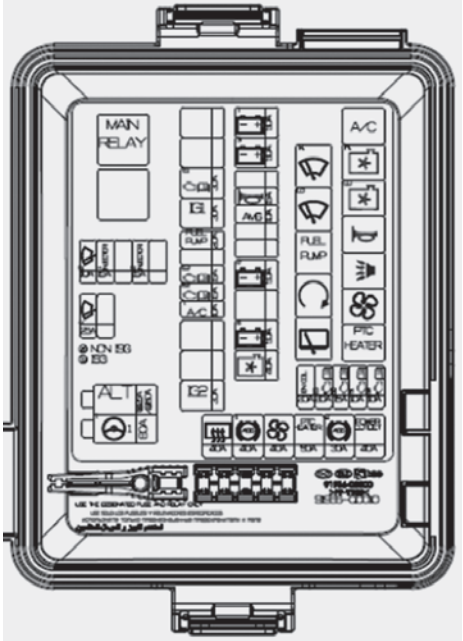
■ Smartstream G 1.0 T-GDi



■ Smartstream G1.0 T-GDi (48V) MHEV

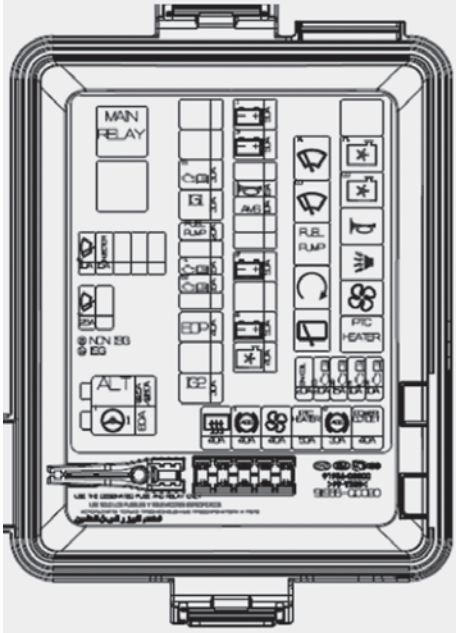


■ Smartstream G1.2



OBC3090032

■ Gasoline 1.4



OBC3090033

Smartstream G1.0 T-GDi/Smartstream G1.0 T-GDi (48 HEV)

Fuse Name		Symbol	Relay Name	Type
RLY.1	E30	MAIN	Main Relay	MINI
RLY.2	E31		Cooling Fan Relay	MINI
RLY.3	E32		Wiper (High) Relay	MICRO
RLY.4	E33		Wiper (Low) Relay	MICRO
RLY.5	E34	FUEL PUMP	Fuel Pump Relay	MICRO
RLY.6	E36		Start Relay	MICRO
RLY.7	E36		RR WIPER Relay	MICRO
RLY.10	E39	A/C	A/CON Relay	MICRO
RLY.11	E40		Horn Relay	MICRO
RLY.12	E41		B/Alarm Horn Relay	MICRO
RLY.13	E42		Blower Relay	MICRO
RLY.14	E43	PTC HEATER	PTC Heater Relay	MICRO

Smartstream G1.0 T-GDi/Smartstream G1.0 T-GDi (48 HEV)

Fuse Name	Symbol	(A)	Circuit Protected
ALT	ALT	(180A) [150A]	Alternator, Multi Fuse - F2, Fuse - F31/F32/F33/F34/ F35/F36
MDPS	1 1	80A	MDPS Unit
DCT1	1 DCT	40A	TCM
E-CLUTCH1	1 E-CLUTCH		Electronic Clutch Module
DCT2	2 DCT	40A	TCM
ECU1	E1	30A	E/R Junction Block (RLY.1)
IG1	IG1	30A	[With Smart Key] PDM Relay Box (IG1, ACC Relay) [W/O Smart Key] Ignition Switch
FUEL PUMP	FUEL PUMP	20A	E/R Junction Block (RLY.5)
BATTERY MANAGEMENT1	1 BATTERY MANAGEMENT	15A	E/R Junction Block (Fuse - F40/F43)
ECU3	E3	15A	ECM, Clutch Switch
ECU2	E2	15A	ECM
A/CON 1	1 A/C	10A	E/R Junction Block (RLY.10)
DCT4	4 DCT	40A	Smart Gear Actuator
CVVD	CVVD	40A	CVVD Actuator
IG2	IG2	30A	[With Smart Key] PDM Relay Box (IG2 Relay) [W/O Smart Key] Ignition Switch, START MTR RLY
BATT1	1	50A	ICU Junction Block (IPS1, IPS3, IPS5, IPS7, IPS8, IPS11)
BATT3	3	50A	ICU Junction Block (Fuse - F8/F14/F15/F21/F25/ F29, Long Term Load Latch Relay)
DCT3	3 DCT	15A	TCM
E-CLUTCH2	2 E-CLUTCH		Electronic Clutch Module
HORN		15A	E/R Junction Block (RLY.11, RLY.12)
AMS	AMS	10A	Battery Sensor
BATT2	2	50A	ICU Junction Block (IPS2, IPS4, IPS6, IPS9, IPS10)
BATT4	4	50A	ICU Junction Block (Power Window Relay, Fuse - F3/F4/F5/F10/F11/F12)
C/FAN		15A	E/R Junction Block (RLY.2)

Smartstream G1.0 T-GDi/Smartstream G1.0 T-GDi (48 HEV)

Fuse Name	Symbol	(A)	Circuit Protected
IGN COIL	IGN COIL	20A	Ignition Coil #1/#2/#3
ECU5	E5	20A	ECM
ECU6	E6	15A	ECM
SENSOR 1	S1	10A	E/R Junction Block (RLY.2/10), Oil Control Valve #1/#2 (Intake/Exhaust), Purge Control Solenoid Valve, RCV Control, V_Oil Pump Solenoid Valve
SENSOR 2	S2	10A	Oxygen Sensor (Up/Down)
RR DEFOG		40A	ICU Junction Block (Rear Defogger Relay)
ABS 1	1 ABS	40A	ESP Control Module
BLOWER		40A	E/R Junction Block (RLY.13)
PTC HEATER	PTC HEATER	50A	E/R Junction Block (RLY.14)
ABS 2	2 ABS	30A	ESP Control Module
POWER OUTLET	POWER OUTLET	40A	ICU Junction Block (Power Outlet Relay)
WIPER 2	2	10A	E/T Junction Block (RLY. 4), Front Wiper Motor, IBU
SENSOR3	S3	15A	E/T Junction Block (RLY. 5)
MHSG	MHSG	10A	Mild Hybrid Starter & Generator Motor
BATTERY C/FAN	BATTERY C/FAN	10A	BMS Cooling Fan, E/R Junction Block (Fuse - F8)
WIPER 1	1	25A	E/T Junction Block (RLY. 4), Front Wiper Motor, Ignition Switch
BATTERY MANAGEMENT2	2 BATTERY MANAGEMENT	10A	BMS Control Module, E/R Junction Block (Fuse - F8)

Smartstream G1.2

Fuse Name		Symbol	Relay Name	Type
RLY.1	E30	MAIN	Main Relay	MINI
RLY.3	E32	HI	Wiper (High) Relay	MICRO
RLY.4	E33	LO	Wiper (Low) Relay	MICRO
RLY.5	E34	FUEL PUMP	Fuel Pump Relay	MICRO
RLY.6	E36		Start Relay	MICRO
RLY.7	E36		RR WIPER Relay	MICRO
RLY.8	E37	A/C	A/CON Relay	MICRO
RLY.9	E38	HI	Cooling Fan High Relay	MICRO
RLY.10	E39	LO	Cooling Fan Low Relay	MICRO
RLY.11	E40		Horn Relay	MICRO
RLY.12	E41		B/Alarm Horn Relay	MICRO
RLY.13	E42		Blower Relay	MICRO
RLY.14	E43	PTC HEATER	PTC Heater Relay	MICRO

Smartstream G1.2

Fuse Name	Symbol	(A)	Circuit Protected
ALT	ALT	(125A) [150A]	Alternator, Multi Fuse - F2, Fuse - F31/F32/F33/F34/ F35/F36
MDPS	1 1	80A	MDPS Unit
ECU1	E1	30A	E/R Junction Block (RLY.1)
IG1	IG1	30A	[With Smart Key] PDM Relay Box (IG1, ACC Relay) [W/O Smart Key] Ignition Switch
FUEL PUMP	FUEL PUMP	20A	E/R Junction Block (RLY.5)
ECU3	E3	15A	ECM, Clutch Switch
ECU2	E2	15A	ECM
A/CON 1	1 A/C	10A	E/R Junction Block (RLY.8)
IG2	IG2	30A	[With Smart Key] PDM Relay Box (IG2 Relay) [W/O Smart Key] Ignition Switch, START MTR RLY
BATT1	1	50A	ICU Junction Block (IPS1, IPS3, IPS5, IPS7, IPS8, IPS11)
BATT3	3	50A	ICU Junction Block (Fuse - F8/F14/F15/F21/F25/F29, Long Term Load Latch Relay)
HORN		15A	E/R Junction Block (RLY.11, RLY.12)
AMS	AMS	10A	Battery Sensor
BATT2	2	50A	ICU Junction Block (IPS2, IPS4, IPS6, IPS9, IPS10)
BATT4	4	50A	ICU Junction Block (Power Window Relay-F5/F12, Fuse - F3/F4/F10/F11)
C/FAN		40A	E/R Junction Block (RLY.9/10)
IGN COIL	IGN COIL	20A	Ignition Coil #1/#2/#3/#4
ECU5	E5	20A	ECM
ECU6	E6	15A	ECM
SENSOR 1	S1	10A	E/R Junction Block (RLY.8/9/10), Oil Control Valve #1/#2 (Intake/Exhaust), Purge Control Solenoid Valve
SENSOR 2	S2	10A	Oxygen Sensor (Up/Down)
RR DEFOG		40A	ICU Junction Block (Rear Defogger Relay)
ABS 1	1 ABS	40A	ESP Control Module

Smartstream G1.2

Fuse Name	Symbol	(A)	Circuit Protected
BLOWER		40A	E/R Junction Block (RLY.13)
PTC HEATER	PTC HEATER	50A	E/R Junction Block (RLY.14)
ABS 2	2 ABS	30A	ESP Control Module
POWER OUTLET	POWER OUTLET	40A	ICU Junction Block (Power Outlet Relay)
WIPER 2	2	10A	E/R Junction Block (RLY. 4), Front Wiper Motor, IBU
INJECTOR1	1 INJECTOR	15A	E/R Junction Block (RLY. 5), Injector #1-1/#2-1/#3-1/#4-1
INJECTOR2	2 INJECTOR	15A	Injector #1-2/#2-2/#3-2/#4-2
WIPER 1	1	25A	E/T Junction Block (RLY. 4), Front Wiper Motor, Ignition Switch

Gasoline 1.4

Fuse Name		Symbol	Relay Name	Type
RLY.1	E30	MAIN	Main Relay	MINI
RLY.3	E32	HI	Wiper (High) Relay	MICRO
RLY.4	E33	LO	Wiper (Low) Relay	MICRO
RLY.5	E34	FUEL PUMP	Fuel Pump Relay	MICRO
RLY.6	E36		Start Relay	MICRO
RLY.7	E36		RR WIPER Relay	MICRO
RLY.9	E38	HI	Cooling Fan High Relay	MICRO
RLY.10	E39	LO	Cooling Fan Low Relay	MICRO
RLY.11	E40		Horn Relay	MICRO
RLY.12	E41		B/Alarm Horn Relay	MICRO
RLY.13	E42		Blower Relay	MICRO
RLY.14	E43	PTC HEATER	PTC Heater Relay	MICRO

Gasoline 1.4

Fuse Name	Symbol	(A)	Circuit Protected
ALT	ALT	(125A) [150A]	Alternator, Multi Fuse - F2, Fuse - F31/F32/F33/F34/ F35/F36
MDPS	1 1	80A	MDPS Unit
ECU1	E1	30A	E/R Junction Block (RLY.1)
IG1	IG1	30A	[With Smart Key] PDM Relay Box (IG1, ACC Relay) [W/O Smart Key] Ignition Switch
FUEL PUMP	FUEL PUMP	20A	E/R Junction Block (RLY.5)
TCU1	T1	15A	PCM, Clutch Switch
ECU2	E2	15A	ECM/PCM
EOP	EOP	40A	Electronic Oil Pump
IG2	IG2	30A	[With Smart Key] PDM Relay Box (IG2 Relay) [W/O Smart Key] Ignition Switch, START MTR RLY
BATT1	1	50A	ICU Junction Block (IPS1, IPS3, IPS5, IPS7, IPS8, IPS11)
BATT3	3	50A	ICU Junction Block (Fuse - F8/F14/F15/F21/F25/ F29, Long Term Load Latch Relay)
HORN		15A	E/R Junction Block (RLY.11, RLY.12)
AMS	AMS	10A	Battery Sensor
BATT2	2	50A	ICU Junction Block (IPS2, IPS4, IPS6, IPS9, IPS10)
BATT4	4	50A	ICU Junction Block (Power Window Relay, Fuse - F3/F4/F5/F10/F11)
C/FAN		40A	E/R Junction Block (RLY.9/10)
IGN COIL	IGN COIL	20A	Ignition Coil #1/#2/#3/#4, Condenser
ECU5	E5	20A	ECM/PCM
ECU6	E6	15A	ECM/PCM
SENSOR 1	S1	10A	E/R Junction Block (RLY.9/10), Oil Control Valve #1/#2 (Intake/Exhaust), Purge Control Solenoid Valve, Variable Intake Solenoid Valve
SENSOR 2	S2	10A	Oxygen Sensor (Up/Down)
RR DEFOG		40A	ICU Junction Block (Rear Defogger Relay)

Gasoline 1.4

Fuse Name	Symbol	(A)	Circuit Protected
ABS 1		40A	ESP Control Module
BLOWER		40A	E/R Junction Block (RLY.13)
PTC HEATER		50A	E/R Junction Block (RLY.14)
ABS 2		30A	ESP Control Module
POWER OUTLET		40A	ICU Junction Block (Power Outlet Relay)
WIPER 2		10A	E/R Junction Block (RLY. 4), Front Wiper Motor, IBU
INJECTOR		15A	E/R Junction Block (RLY. 5), Injector #1/#2/#3/#4
WIPER 1		25A	E/R Junction Block (RLY. 4), Front Wiper Motor, Ignition Switch

LIGHT BULBS

We recommend that you consult with an authorized HYUNDAI dealer to replace most vehicle light bulbs. It is difficult to replace vehicle light bulbs because other parts of the vehicle must be removed before you can get to the bulb. This is especially true for removing the headlight assembly to get to the bulb(s).

Removing/installing the headlight assembly can result in damage to the vehicle.

WARNING

Prior to replacing a light, depress the foot brake, move the shift lever into the N (Neutral, for automatic transmission vehicle) or neutral (for manual transmission vehicle), apply the parking brake, place the ignition switch in the LOCK/OFF position, and take the key with you when leaving the vehicle to avoid sudden movement of the vehicle and to prevent possible electric shock.

Be aware the bulbs may be hot and may burn your fingers.

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 electric wiring system.

Information

The headlight 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 headlight 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.

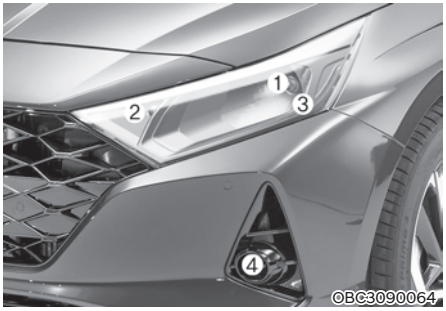
Information (For Europe)

Traffic Change

The low beam light distribution is asymmetric. If you go abroad to a country with opposite traffic direction, this asymmetric part will dazzle oncoming car driver. To prevent dazzle, ECE regulation demands several technical solutions (ex. automatic change system, adhesive sheet, down aiming). These headlights are designed not to dazzle opposite drivers. So, you need not change your headlights in a country with the opposite traffic direction.

Headlight, Position Light, Turn signal Light bulb replacement

Type A



(1) Headlight(Low/High)
(2) Turn signal light
(3) Position light(if equipped)
(4) Daytime running light/ D.R.L & Position light

Type B -N line



(1) Headlight(Low/High)
(2) Turn signal light
(3) Daytime running light/ D.R.L & Position light

Type C - CUV



(1) Headlight(Low/High)
(2) Turn signal light
(3) Daytime running light & Position light

*[1] : MFR (Multi Focus Reflector) Headlight



WARNING

- **Handle halogen bulbs with care. Halogen bulbs contain pressurized gas that will produce flying pieces of glass that could cause injuries if broken.**
- **Wear eye protection when changing a bulb. Allow the bulb to cool down before handling it.**

- Always handle them carefully, and avoid scratches and abrasions. If the bulbs are lit, avoid contact with liquids.
- Never touch the glass with bare hands. Residual oil may cause the bulb to overheat and burst when lit.
- A bulb should be operated only when installed in a headlight.
- If a bulb becomes damaged or cracked, replace it immediately and carefully dispose of it.

Information

We recommend that the headlight aiming be adjusted after an accident or after the headlight assembly is reinstalled.

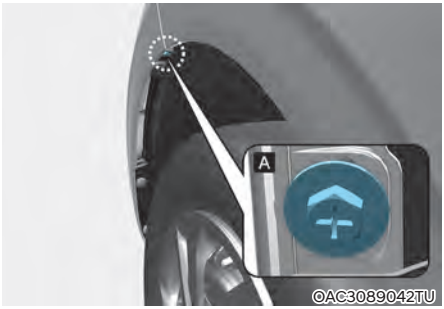
❊ Traffic Change (For Europe)

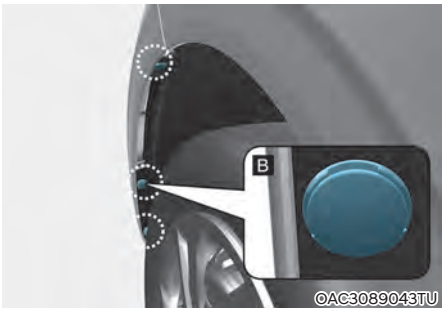
The low beam light distribution is asymmetric. If you go abroad to a country with opposite traffic direction, this asymmetric part will dazzle oncoming car driver. To prevent dazzle, ECE regulation demands several technical solutions (ex. automatic change system, adhesive sheet, down aiming). These headlamps are designed not to dazzle opposite drivers.

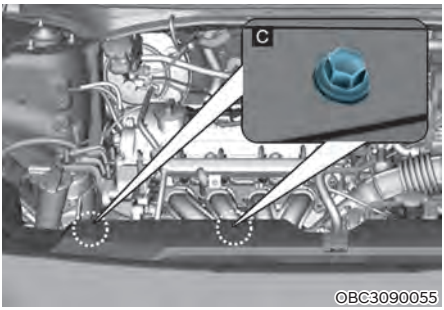
So, you need not change your headlamps in a country with the opposite traffic direction.

Headlight (Low/High)

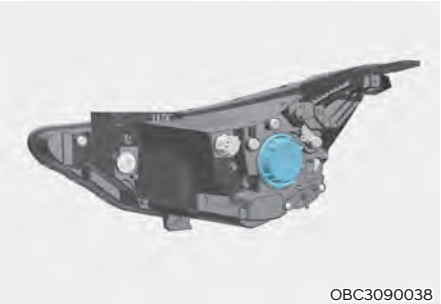
1. Turn the front wheel at inwards.



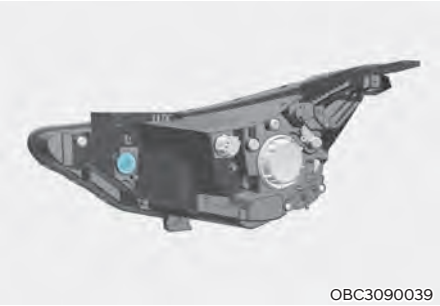




2. Remove the Wheel guard clips (B), bumper cover bolt (A) and bumper upper cover blots (C).
3. Push the wheel guard aside and remove the headlight bulb cover by turning it counterclockwise from bulb assembly.

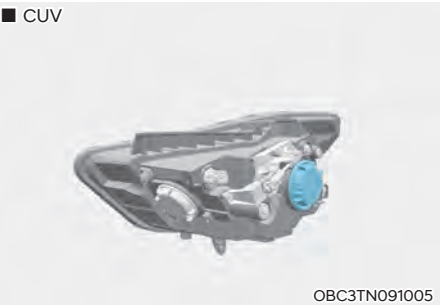


OBC3090038



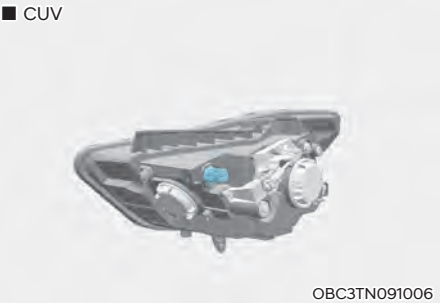
OBC3090039

■ CUV



OBC3TN091005

■ CUV



OBC3TN091006

4. Disconnect the headlight bulb socket-connector.
5. Unsnap the headlight bulb retaining wire by depressing the end and pushing it upward.
6. Remove the bulb from the headlight assembly.
7. Install a new headlight bulb and snap the headlight bulb retaining wire into position by aligning the wire with the groove on the bulb.
8. Connect the headlight bulb socket connector.
9. Install the headlight bulb cover by turning it clockwise.
10. Install the wheel guard in the reverse order.

Turn signal light

1. Open the hood.
2. Remove the turn signal light or low beam assist-static light bulb cover by turning it counterclockwise.
3. Remove the socket from the assembly by turning the socket counterclockwise until the tabs on the socket align with the slots on the assembly.
4. Insert a new bulb by inserting it into the socket and rotating it until it locks into place.
5. Install the socket in the assembly by aligning the tabs on the socket with the slots in the assembly.

   Push the socket into the assembly and turn the socket clockwise.
6. Install the turn signal light or low beam assist-static light bulb cover by turning it clockwise.

Position light, Daytime running light (if equipped)

If the LED lamp does not operate, we recommend that the system be inspected by an authorized HYUNDAI dealer. The LED lamps cannot be replaced as a single unit because it is an integrated unit. The LED lamp has to be replaced with the unit.

Unless a skilled technician checks or repairs the LED lamp, it may damage related parts of the vehicle.

Type D (LED)



Type E (LED)-N line



(1) Headlight (Low)
(2) Headlight (High)
(3) Static Bending Light
(4) Turn signal light
(5) Daytime running light & Position light
(6) Front fog light

Type F (LED)-CUV



(1) Headlight(Low)

(2) Headlight(High)

(3) Static Bending Light

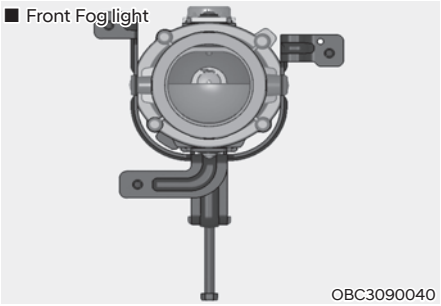
(4) Daytime running light & Position & Turn signal light

Headlight, Position light, Turn signal light, Daytime running light, Low beam assist-static light bulb replacement

If the LED lamp does not operate, we recommend that the system be inspected by an authorized HYUNDAI dealer. The LED lamps cannot be replaced as a single unit because it is an integrated unit. The LED lamp has to be replaced with the unit.

Unless a skilled technician checks or repairs the LED lamp, it may damage related parts of the vehicle.

■ Front Foglight



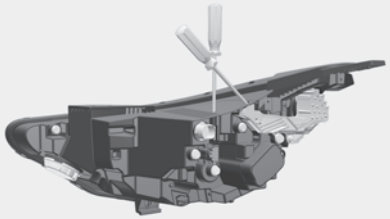
Fog light

1. Remove the under cover by rotating the screws and bolts.
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 by turning the socket counter-clockwise until the tabs on the socket align with the slots on the housing.
5. Install the new bulb-socket into the housing by aligning the tabs on the socket with the slots in the housing. Push the socket into the housing and turn the socket clockwise.
6. Connect the power connector to the socket.
7. Reinstall the front bumper under cover.

Headlight aiming (For Europe, if equipped)

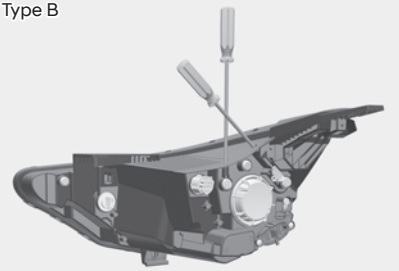
Headlight aiming

■ Type A



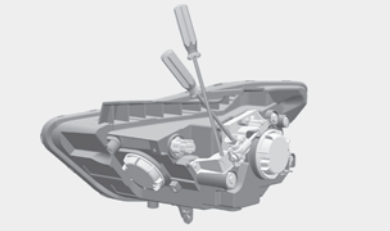
OBC3090041

■ Type B



OBC3090056

■ Type C



OBC3TN091004

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 light centers) and a horizontal line (Horizontal line passing through center of head lamps) on the screen.
4. With the headlight and battery in normal condition, aim the headlights so the brightest portion falls on the horizontal and vertical lines.
5. To aim the low beam left or right, turn the driver clockwise or counterclockwise. To aim the low beam up or down, turn the driver clockwise or counterclockwise.

   To aim the high beam up or down, turn the driver clockwise or counterclockwise.

Front fog light aiming (if equipped)

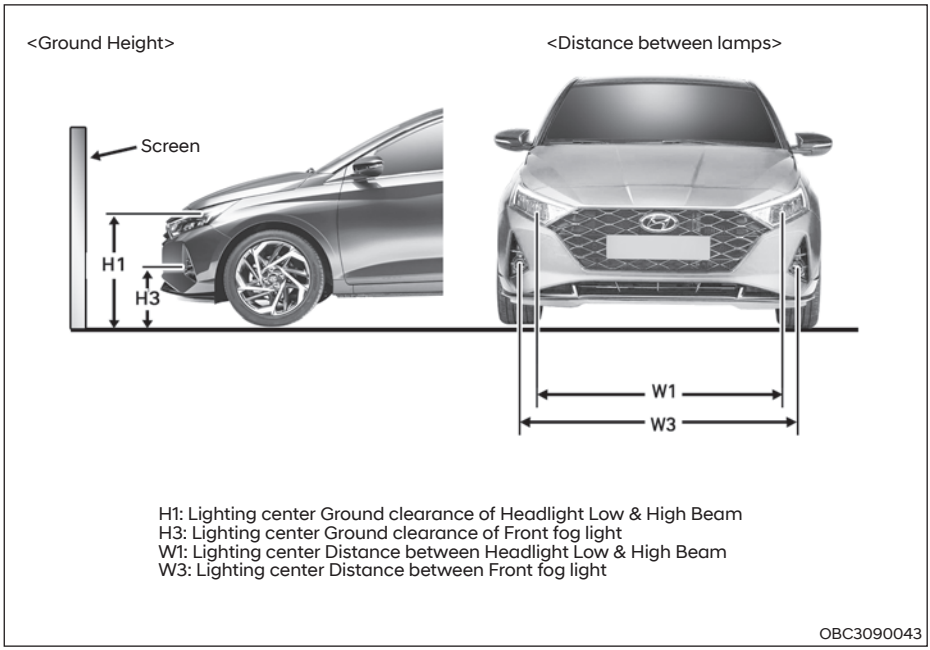


OBC3090042

The front fog light can be aimed as the same manner of the head lights aiming.

With the front fog lights and battery normal condition, aim the front fog lights. To aim the front fog light up or down, turn the driver clockwise or counterclockwise.

Aiming point



H1: Lighting center Ground clearance of Headlight Low & High Beam
H3: Lighting center Ground clearance of Front fog light
W1: Lighting center Distance between Headlight Low & High Beam
W3: Lighting center Distance between Front fog light

OBC3090043

1. Headlamp (LOW - H1, W1 / HIGH BEAM - H2, W2)

mm (in.)

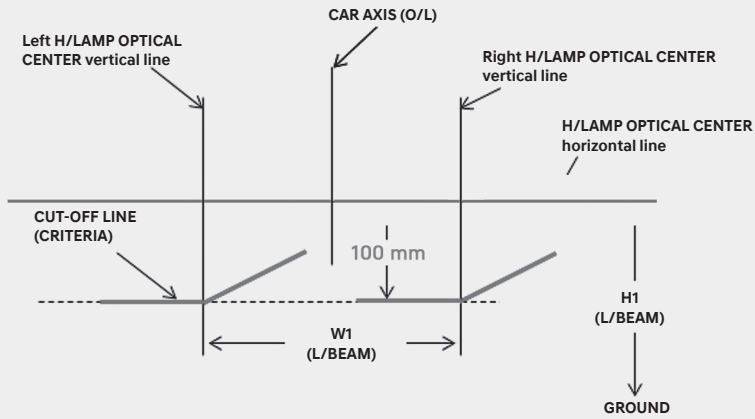
Vehicle condition	"H1"	"H2"	"W1"	"W2"
Without driver (HAL 2 MFR)	654.9 (25.8)	654.9 (25.8)	1320 (52.0)	1320 (52.0)
Without driver (LED 4 MFR)	670.4 (26.4)	622.3 (24.5)	1396.8 (55.0)	1233.6 (48.57)
With driver (HAL 2 MFR)	646.9 (25.5)	646.9 (25.5)	1320 (52.0)	1320 (52.0)
With driver (LED 4 MFR)	662.4 (26.1)	614.3 (24.2)	1396.8 (55.0)	1233.6 (48.57)

2. Fog lamp (H3, W3)

Vehicle condition	"H3"	"W3"
Without driver	352 (13.9)	1434.4 (56.5)
With driver	344 (13.6)	1434.4 (56.5)

Head lamp low beam (LHD side)

■ Based on 10m screen

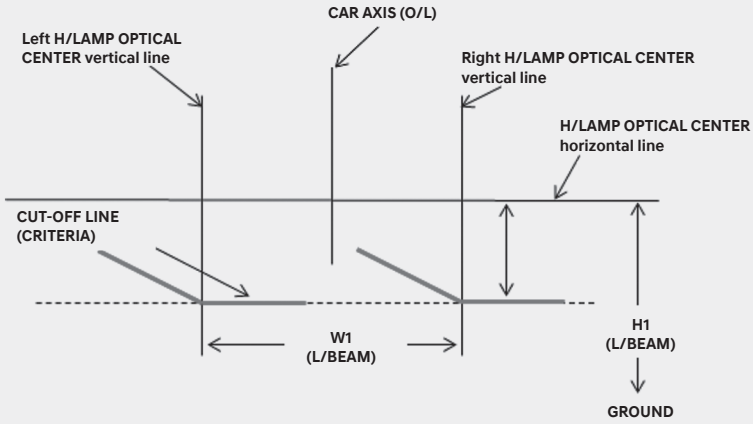


OBC3090058

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 the head lamp leveling device is equipped, adjust the head lamp leveling device switch with 0 position.

Head lamp low beam (RHD side)

■ Based on 10m screen

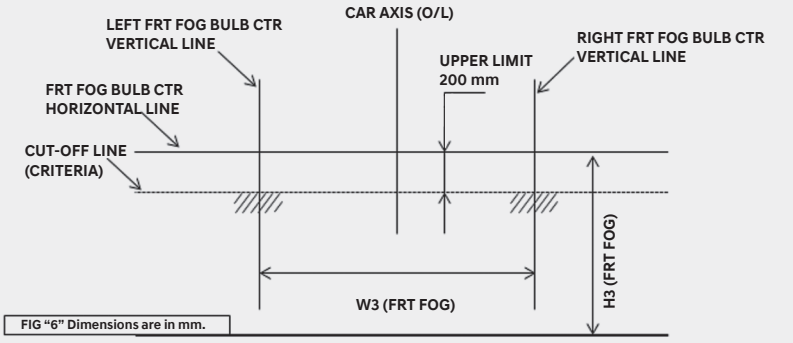


OBC3090059

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 the head lamp leveling device is equipped, adjust the head lamp leveling device switch with 0 position.

Front fog light

■ Based on 10m screen



<FIG "6">

OBC3090060

1. Turn the front fog lamp on with the driver (75 kg) aboard.
2. The cut-off line should be projected in the allowable range (shaded region).

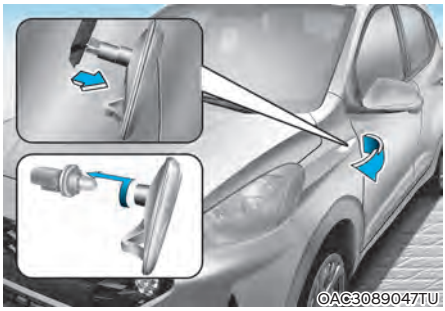
Side repeater light replacement

Type A



If the LED lamp does not operate, we recommend you to have the vehicle checked by an authorized HYUNDAI dealer.

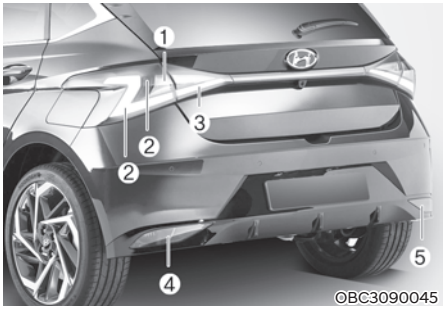
Type B



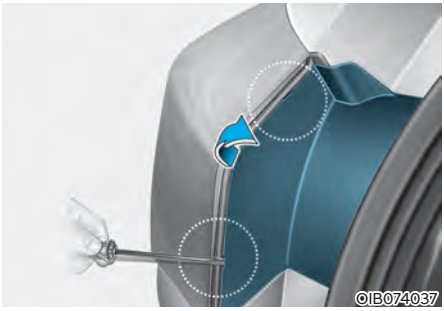
1. Remove the lamp assembly from the vehicle by prying the lens and pulling the assembly out.
2. Disconnect the bulb electrical connector.
3. Separate the socket and the lens parts by turning the socket counterclockwise until the tabs on the socket align with the slots on the lens part.
4. Remove the bulb by pulling it straight out.
5. Insert a new bulb in the socket.
6. Reassemble the socket and the lens part.
7. Connect the bulb electrical connector.
8. Reinstall the lamp assembly to the body of the vehicle.

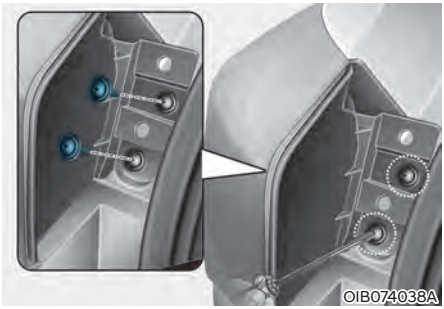
Rear combination light bulb replacement

Type A

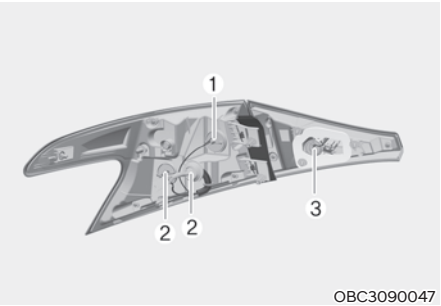


(1) Turn signal light
(2) Tail/Stop light
(3) Tail light
(4) Rear fog light /Rear reflection light
(5) Back-up light /Rear reflection light





1. Open the tailgate
2. Loosen the light assembly retaining screws with a cross-tip screwdriver.
3. Remove the rear combination light assembly from the body of the vehicle.



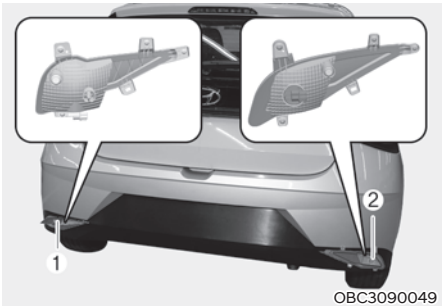
[1] : Turn Signal Light, [2] : Tail/Stop Light,
[3] : Tail light

Turn signal light, Tail/stop light

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 in the assembly by aligning the tabs on the socket with the slots in the assembly. Push the socket into the assembly and turn the socket clockwise.
8. Reinstall the light assembly to the body of the vehicle.

Tail light

1. Open the tailgate and remove the tailgate trim.
2. Loosen the retaining screw of the tailgate lid cover and then remove the cover.
3. Disconnect the connector and then remove the nuts by turning the nuts counter clockwise.
4. Take the light assembly out.

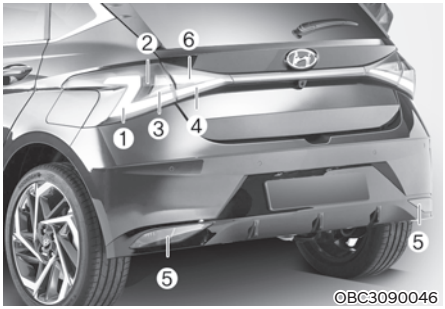


[1] : Rear Fog Light, [2] : Back-up Light

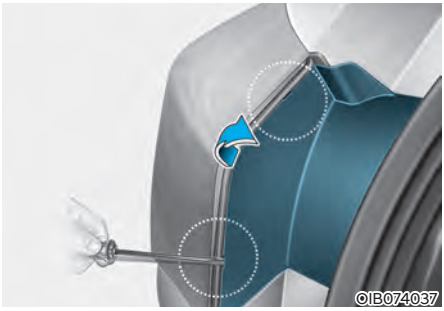
Rear fog light, Back-up Light

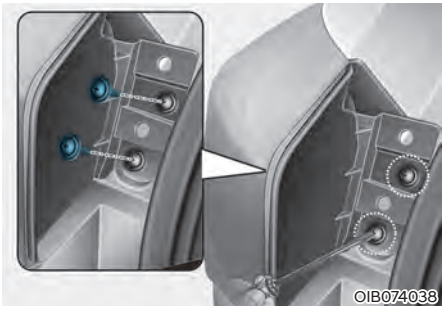
1. Remove the rear tire and wheel cover.
2. Remove the socket from the assembly by turning the socket counterclockwise until the tabs on the socket align with the slots on the assembly.
3. Remove the bulb from the socket by pressing it in and rotating it counterclockwise until the tabs on the bulb align with the slots in the socket. Pull the bulb out of the socket.
4. Insert a new bulb in the socket.
5. Reinstall the light assembly to the body of the vehicle.

Type B

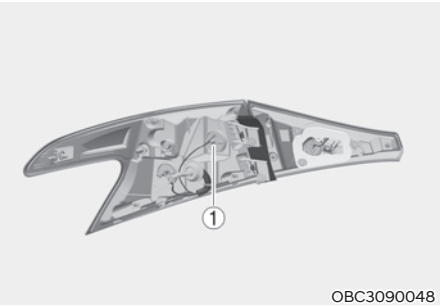


(1) Tail light
(2) Stop light
(3) Turn signal lamp
(4) Tail light
(5) Rear fog light /Rear reflection light
(6) Back-up light





1. Open the tailgate
2. Loosen the light assembly retaining screws with a cross-tip screwdriver.
3. Remove the rear combination light assembly from the body of the vehicle.



[1] : Turn Signal Light,

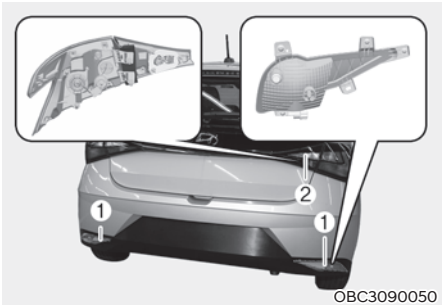
Turn signal light

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 in the assembly by aligning the tabs on the socket with the slots in the assembly. Push the socket into the assembly and turn the socket clockwise.
8. Reinstall the light assembly to the body of the vehicle.

Tail light, Stop light

If the LED lamp does not operate, we recommend that the system be inspected by an authorized HYUNDAI dealer. The LED lamps cannot be replaced as a single unit because it is an integrated unit. The LED lamp has to be replaced with the unit.

Unless a skilled technician checks or repairs the LED lamp, it may damage related parts of the vehicle.



[1] : Rear Fog Light, [2] : Back-up Light

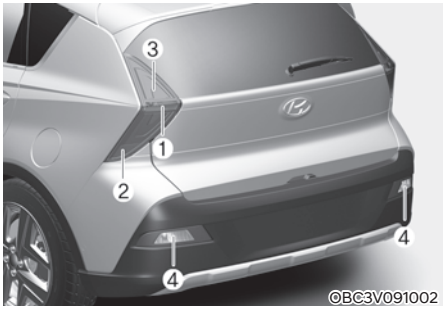
Rear fog light

1. Remove the rear tire and wheel cover.
2. Remove the socket from the assembly by turning the socket counterclockwise until the tabs on the socket align with the slots on the assembly.
3. 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.
4. Insert a new bulb in the socket.
5. Reinstall the light assembly to the body of the vehicle.

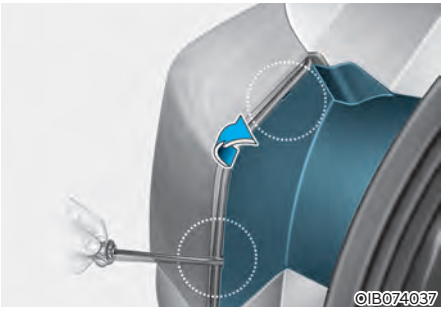
Back-up light

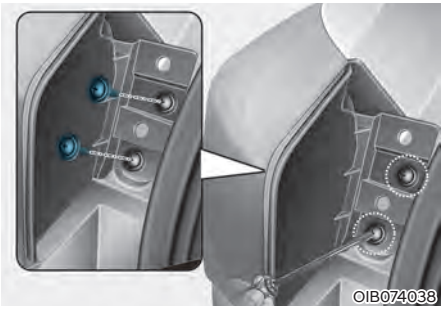
1. Open the tailgate and remove the tailgate trim.
2. Loosen the retaining screw of the tailgate lid cover and then remove the cover.
3. Disconnect the connector and then remove the nuts by turning the nuts counter clockwise.
4. Take the light assembly out.

ype C

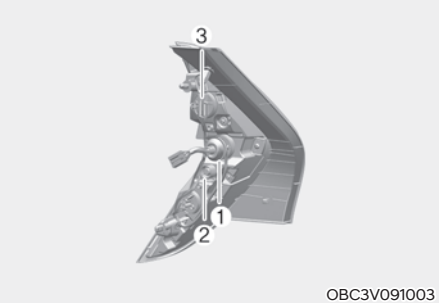


(1) Turn signal lamp
(2) Tail/Stop light
(3) Tail light
(4) Rear fog light/Rear reflection light





1. Open the tailgate
2. Loosen the light assembly retaining screws with a cross-tip screwdriver.
3. Remove the rear combination light assembly from the body of the vehicle.



[1] : Turn Signal Light, [2] : Tail/Stop Light,
[3] : Tail light

Turn signal light, Tail/stop light, Tail light

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 in the assembly by aligning the tabs on the socket with the slots in the assembly. Push the socket into the assembly and turn the socket clockwise.
8. Reinstall the light assembly to the body of the vehicle.

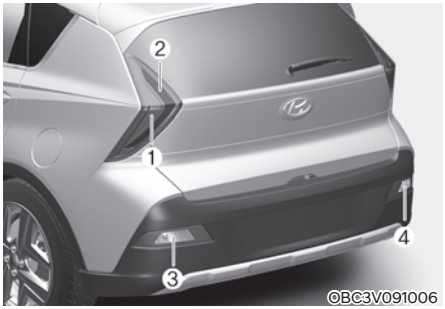


[1] : Rear Fog Light

Rear fog light, Rear reflection light

1. Remove the rear tire and wheel cover.
2. Remove the socket from the assembly by turning the socket counterclockwise until the tabs on the socket align with the slots on the assembly.
3. 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.
4. Insert a new bulb in the socket.
5. Reinstall the light assembly to the body of the vehicle.

Type D



(1) Turn signal lamp

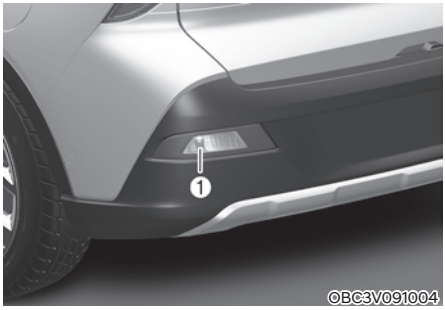
(2) Tail/Stop light

(3) Rear fog light/Rear reflection light

Turn signal lamp, Tail light, Stop light

If the LED lamp does not operate, we recommend that the system be inspected by an authorized HYUNDAI dealer. The LED lamps cannot be replaced as a single unit because it is an integrated unit. The LED lamp has to be replaced with the unit.

Unless a skilled technician checks or repairs the LED lamp, it may damage related parts of the vehicle.

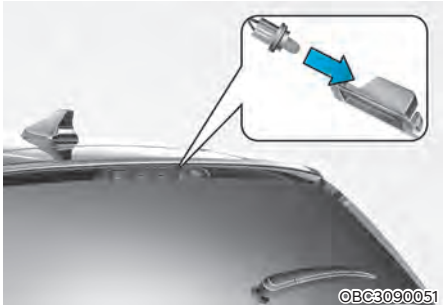


[1] : Rear Fog Light

Rear fog light, Rear reflection light

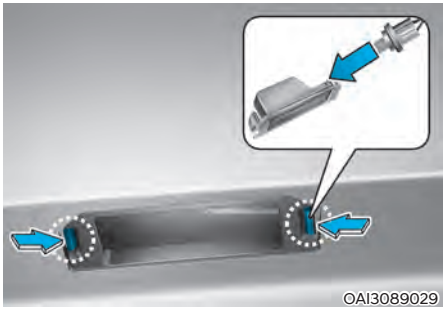
1. Remove the rear tire and wheel cover.
2. Remove the socket from the assembly by turning the socket counterclockwise until the tabs on the socket align with the slots on the assembly.
3. Remove the bulb from the socket by pressing it in and rotating it counterclockwise until the tabs on the bulb align with the slots in the socket. Pull the bulb out of the socket.
4. Insert a new bulb in the socket.
5. Reinstall the light assembly to the body of the vehicle.

High mounted stop light replacement



1. Open the tailgate.
2. Remove the socket by turning it counterclockwise until the tabs on the socket align with the slots.
3. 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.
4. Insert a new bulb by inserting it into the socket and rotating it until it locks into place.
5. Install the socket in the assembly by aligning the tabs on the socket with the slots in the assembly. Push the socket into the assembly and turn the socket clockwise.

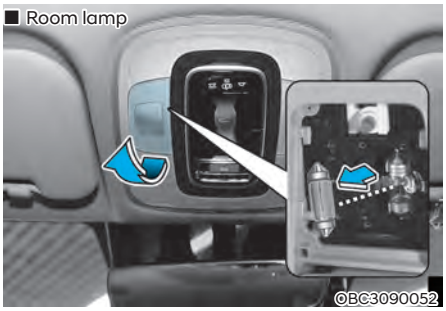
License plate light bulb replacement



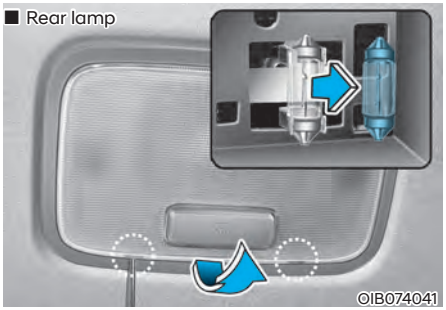
1. Using a flat-blade screwdriver gently pry the lens cover from the lamp housing.
2. Remove the socket from the assembly by turning the socket counterclockwise until the tabs on the socket align with the slots on the assembly.
3. Remove the bulb by pulling it straight out.
4. Install a new bulb.
5. Reinstall in the reverse order.

Interior light bulb replacement

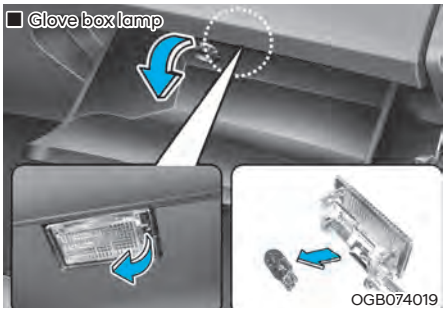
■ Room lamp



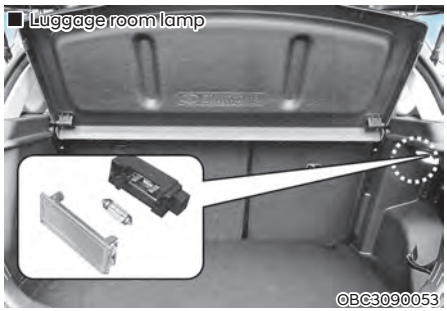
■ Rear lamp



■ Glove box lamp



■ Luggage room 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

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 care

Exterior general caution

It is very important to follow the label directions when using any chemical cleaner or polish. Read all warning and caution statements that appear on the label.

Finish maintenance

Washing

To help protect your vehicle's finish from rust and deterioration, wash it thoroughly and frequently at least once a month with lukewarm or cold water.

If you use your vehicle for off-road driving, you should wash it after each off-road trip. Pay special attention to the removal of any accumulation of salt, dirt, mud, and other foreign materials. Make sure the drain holes in the lower edges of the doors and rocker panels are kept clear and clean.

Insects, tar, tree sap, bird droppings, industrial pollution and similar deposits can damage your vehicle's finish if not removed immediately.

Even prompt washing with plain water may not completely remove all these deposits. A mild soap, safe for use on painted surfaces, may be used.

After washing, rinse the vehicle thoroughly with lukewarm or cold water. Do not allow soap to dry on the finish.

NOTICE

- **Do not use strong soap, chemical detergents or hot water, and do not wash the vehicle in direct sunlight or when the body of the vehicle is warm.**
- **Be careful when washing the side windows of your vehicle.**

  Especially, with high-pressure water, water may leak through the windows and wet the interior.
- **To prevent damage to the plastic parts and lamps, do not clean with chemical solvents or strong detergents.**

WARNING

Wet brakes

After washing the vehicle, test the brakes 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 handwash 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

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 produces vehicles of the highest quality. However, this is only part of the job. To achieve the long-term corrosion resistance your vehicle can deliver, the owner's cooperation and assistance is also required.

Common causes of corrosion

The most common causes of corrosion on your vehicle are:

- Road salt, dirt and moisture that is allowed to accumulate underneath the vehicle.
- Removal of paint or protective coatings; by stones, gravel, abrasion or minor scrapes and dents which leave unprotected metal exposed to corrosion.

High-corrosion areas

If you live in an area where your vehicle is regularly exposed to corrosive materials, corrosion protection is particularly important. Some of the common causes of accelerated corrosion are road salts, dust control chemicals, ocean air and industrial pollution.

Moisture breeds corrosion

Moisture creates the conditions in which corrosion is most likely to occur. For example, corrosion is accelerated by high humidity, particularly when temperatures are just above freezing. In such conditions, the corrosive material is kept in contact with the vehicle surfaces by moisture that is slow to evaporate.

Mud is particularly corrosive because it is slow to dry and holds moisture in contact with the vehicle. Although the mud appears to be dry, it can still retain moisture and promote corrosion.

High temperatures can also accelerate corrosion of parts that are not properly ventilated so the moisture can be dispersed. For all these reasons, it is particularly important to keep your vehicle clean and free of mud or accumulations of other materials. This applies not only to the visible surfaces but particularly to the underside of the vehicle.

To help prevent corrosion

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 vehicle 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 carpeting 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 products.

CAUTION

- **Wrinkles or abrasions which appear naturally from usage are not covered by warranty.**
- **Belts with metallic accessories, zippers or keys inside the back pocket may damage the seat fabric.**
- **Make sure not to wet the seat. It may change the nature of natural leather.**
- **Jeans or clothes which could bleach may contaminate the surface of the seat covering fabric.**

- Caring for the leather seats
  - Vacuum the seat periodically to remove dust and sand on the seat. It will prevent abrasion or damage of the leather and maintain its quality.
  - Wipe the natural leather seat cover often with dry or soft cloth.
  - Use of proper leather protector may prevent abrasion of the cover and helps maintain the color. Be sure to read the instructions and consult a specialist when using leather coating or protective agent.
  - Light colored such as beige or 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.

NOTICE

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 oxidization 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 the engine at 1,500- 4,000 rpm and the gear in the 3rd position or above for approximately 30 minutes.

When the GPF lamp starts to blink or the waning 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.

WARNING

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 contain unspecified additives, they may damage the GPF system and cause exhaust emission problems.

Appendix

Шофиране през зимата (Bulgarian) A-2
Téli vezetés (Hungarian) A-5
Vetrarakstur (Icelandic) A-8
Jazda zimą (Polish) A-11

ШОФИРАНЕ ПРЕЗ ЗИМАТА (BULGARIAN)

Тежките зимни атмосферни условия могат да предизвикат по-голямо износване и други проблеми. За да сведете до минимум проблемите, свързани с шофирането през зимата, следвайте препоръките по-долу:

Сняг или поледица

За да карате своето превозно средство при дълбока снежна покривка може да се наложи да използвате зимни гуми или да поставите вериги върху тях. Ако са необ ходими зимни гуми, трябва да изберете гуми със същия размер и вид като тези на оригиналните гуми.

В противен случай това може да се отрази неблагоприятно на безопасността и експлоатацията на Вашия автомобил. Освен това карането с висока скорост, бързото ускорение, внезапното натискане на спирачки и резките завои крият сериозни опасности.

При забавяне на скоростта, използвайте доколкото е възможно спирачките на дви гателя. Внезапното натискане на спирачки на заснежена или заледена настилка може да предизвика занасяне. Трябва да под държате достатъчна дистанция между автомобила, който се движи пред Вас, и Вашия автомобил.

Освен това натискайте спирачката леко. Следва да се отбележи че инсталирането на веригите върху гума та ще позволи прилагането на по-голяма движеща сила, но няма да предотврати занасянето встрани.

К СВЕДЕНИЮ

Веригите за гуми не са позволени във всички държави.

Проверете норма тивната уредба в своята страна преди да поставите вериги за гуми.

Г уми за сняг

Ако поставите гуми за сняг на своя авто- мобил се уверете, че това са радиалнигуми със същия размер и товарен индекс като тези на оригиналните гуми. Поставете гуми за сняг на всичките четири колела,

за да балансирате експлоатацията на своя автомобил във всякакви атмосферни условия. Имайте предвид, че тягата на гумите за сняг върху суха настилка не може да бъде толкова голяма колкото тази на оригиналните гуми. Следва да карате внимателно, дори когато пътищата са почистени.

Консултирайте се с доставчика на гуми за максималната препоръчителна скорост.

ОСТОРОЖНО

Размер на гумите за сняг Г умите за сняг следва да са равностойни по размер и тип на тези на стандартните гуми на автомобила. В противен случай това може да се отрази неблагоприятно на безопасността и експлоатацията на Вашия автомобил.

Не монтирайте гуми с шипове, преди да сте проверили местните, национални и общински разпоредби за възможни огра-ничения в тяхната употреба.

Вериги за гуми



Тъй като страниците на радиалните гуми са по-тънки, те могат да се повредят, ако върху тях се монтират някои видове вери- ги за сняг. Ето защо се препоръчва изпол- зването на гуми за сняг, а не на вериги за сняг.

Не поставяйте вериги върху автомобили, чиито колела са с алуминиеви джан- ти; веригите за сняг могат да повредят колелата.

Ако трябва да се използват вериги за сняг, използвайте телени вериги с дебелина от поне 15 мм.

Повредата на Вашия автомобил вследствие на непра- вилната употреба на вериги за сняг не е в обхвата на гаранцията на производителя на Вашия

автомобил.

Вериги за гуми трябва да се инсталират само на предните гуми.

ВНИМАНИЕ

- **Уверете се, че размерът и видът на веригите са правилните за Вашите гуми. Неправилните вериги за сняг могат да повредят каросерията и окачването на автомобила и този тип повреда може да не е в обхвата на производствената гаранция за Вашия автомобил. Също така куките за свързване на веригите за сняг могат да се повредят от намиращите се в контакт с тях автомобилни части, като това може да доведе до разхлабването им. Уверете се, че веригите за сняг са от клас S според класификацията на Дружеството на автомобилните инженери (SAE).**
- **Винаги проверявайте дали веригите са били поставени правилно след като изминете около 0,5 до 1 км, за да се уверите в безопасното им поставяне. Затегнете веригите или ги поставете отново, ако са се разхлабили.**

Монтиране на вериги

Когато инсталирате веригите, следвайте инструкциите на производителя и ги затег- нете максимално. Карайте бавно с инста- лирани вериги. Ако чуете, че веригите са навлезли в контакт с каросерията или шасито, спрете и ги затегнете. Ако те все още са в контакт, намалете скоростта до преустановяване на контакта.

Свалете веригите веднага, щом започнете да кара- те по почистените пътища.

ОСТОРОЖНО

Поставяне на вериги

Когато поставите вериги за сняг , паркирайте автомобила на равно място далеч от пътното движение. Включете аварийните светлини и поставете светлоотразителния три- ъгълник зад автомобила, ако разпо- лагате с такъв.

Винаги паркирайте автомобила в паркинг, дръпнете ръч-ната спирачка и изключете двигате-ля преди да поставите веригите за сняг.

ОСТОРОЖНО

Вериги за гуми

- **Използването на вериги може да се отрази неблагоприятно на работата на Вашия автомобил.**
- **Не надвишавайте пределната скорост, препоръчана от производителя, или скоростта от 30 км/ч, което е по- ниско.**
- **Карайте внимателно и избягвайте неравности, дупки, резки завои и други опасности на пътя, които могат да накарат автомобила да подскача.**
- **Избягвайте резките завои или използването на спирачки, ако колелата са блокирани.**

ВНИМАНИЕ

- **Веригите с грешен размер или тези, които са неправилно инсталирани, могат да повредят спирачните накладки, окачването, каросерията и колелата.**
- **Спрете и затегнете веригите повторно винаги, щом ги чуете да удрят автомобила.**

TÉLI VEZETÉS (HUNGARIAN)

Télen a nehéz időjárási feltételek nagyobb elhasználódást és más problémákat eredményezhetnek. A téli vezetés problémáinak csökkentése érdekében célszerű követnie a következő javaslatokat:

Havas vagy jeges útviszonyok

Mély hóban közlekedéshez szükség lehet téli gumiabroncsok használatára vagy kerekeire hólánc felszerelésére.

Ha téli gumiabroncsokra van szüksége, a gyárilag felszerelttel megegyező méretű és típusú gumiabroncsot kell választani. Ennek figyelmen kívül hagyása hátrányosan befolyásolja gépkocsija biztonságát és vezethetőségét. Ezen túlmenően a nagy sebességű haladás, a hirtelen gyorsítás, a hirtelen fékezés és a gyors kanyarvétel nagyon veszélyes gyakorlat.

Lassításkor a lehető legjobban használja ki motorja fékhatását. Havas vagy jeges úton a hirtelen fékezés megcsúszást okozhat.

Elegendően nagy követési távolságot kell tartania saját gépkocsija és az Ön előtt haladó jármű között. Tehát óvatosan fékezzen. Jegyezze meg, hogy hólánc használatakor megnő a hajtóerő, de nem segít az oldalra kicsúszás elkerülésében.

MEGJEGYZÉS

A hólánc nem legális minden országban. Ellenőrizze az Ön országának törvényeit, mielőtt felszereli a hóláncot.

Téli gumiabroncs

Ha téli gumiabroncsot akar használni, először győződjön meg arról, hogy ezek megfelelő méretű és terhelhetőségű radiál abroncsok.

Kifejezetten javasoljuk, hogy mind a négy kerékre szereltessen téli gumiabroncsot, hogy biztosítsa gépkocsija jó vezethetőségét. Ne feledje, hogy a téli gumiabroncsok tapadása száraz úton nem olyan jó, mint a gépkocsira eredetileg felszerelt gumiabroncsoké. Még tiszta úton is óvatosan kell vezetnie.Tájékozódjon a gumiszerelőnél a megengedett legnagyobb sebességgel kapcsolatban.

VIGYÁZAT!

A téli gumiabroncsok mérete

A téli gumiabroncsnak mind méretében, mind szerkezetében meg kell egyeznie az eredeti nyárival. Ellenkező esetben gépkocsija biztonsága és vezethetősége kedvezőtlenül változhat.

Ne szereltessen fel szöges gumiabroncsot, mielőtt tájékozódna a használatukra, illetve esetleges tiltásukra vonatkozó helyi előírásokról.

Hólánc



Mivel a radiál gumiabroncsok oldalfala vékonyabb, megsérülhetnek bizonyos fajtájú hólánc felszerelésétől. Ezért inkább javasoljuk a téli gumiabroncsok használatát, mint a hólánc használatát. Ne szereljen fel hóláncot alumínium keréktárcsás kerékre, mivel a hólánc sérüléseket okozhat a keréktárcsán. Ha mégis hóláncot kellene használnia, használjon 15 mm-es átmérőnél kisebb, kábeltípusú hóláncot. Gépkocsijának a hólánc helytelen használatából eredő káraira nem vonatkozik a garancia.

Csak az első kerekekre szereljen hóláncot.

FIGYELEM!

- **Ügyeljen arra, hogy a hólánc a gumiabroncsaihoz megfelelő méretű és típusú legyen. A nem megfelelő méretű hólánc megrongálhatja gépkocsija karosszériáját és felfüggesztéseit, és erre nem vonatkozik a gépkocsi garanciája. Ezenkívül a hólánc összekötő kapcsai megsérülhetnek a karosszériához ütődéstől, amitől a hólánc meglazulhat, és leeshet a kerékről. Kizárólag az SAE szabvány szerinti „S” osztályú hóláncot használjon.**
- **0,5 - 1km megtétele után ellenőrizze megfelelő elhelyezkedésüket a biztonságos felszerelésük érdekében. Ha meglazultak, húzza meg újra, vagy szerelje fel ismét a hóláncokat.**

A hylőnc felszerelüse

A hólánc felszerelésekor figyelmesen kövesse gyártójának utasításait, és a lehető legfeszesebbre húzza meg a láncot. A felszerelt hólánccal lassan közlekedjen. Ha a lánc hozzáverődik a karosszériához vagy az alvázhoz, álljon meg és feszítsen rajta. Ha még mindig hozzáér, lassítson le annyira, hogy megszűnjön a kontaktus.

Haladéktalanul távolítsa el a láncokat, amint tiszta útra ér.

VIGYÁZAT!

Hólánc felszerelése

Forgalomtól távol eső sík felületen álljon félre. Kapcsolja be a vészvillogót és tegyen ki elakadásjelző háromszöget a gépkocsi mögé. A hólánc felszerelése előtt mindig kapcsolja P állásba a sebességváltó választókarját, működtesse a rögzítőféket, majd állítsa le a motort.

VIGYÁZAT!

Hólánc

- **A hólánc használata jelentősen korlátozza a gépkocsi kezelhetőségét.**
- **Ne lépje túl a 30 km/h sebességet, vagy a hólánc gyártója által meghatározott maximális sebességet. Mindig a kettő közül alacsonyabb értéket tartsa be.**
- **Vezessen óvatosan, kerülje a bukkanókat, lyukakat, éles kanyarokat és az úton előforduló egyéb veszélyforrásokat, melyek a gépkocsi erős berugózását okozzák.**
- **Tartózkodjon az éles kanyarvételtől és a blokkoló kerekekkel történő fékezéstől.**

FIGYELEM!

- **A nem megfelelő méretű vagy rosszul felszerelt hólánc megrongálhatja gépkocsija féktömlőit, felfüggesztéseit, karosszériáját és a kerekeit.**
- **Álljon meg és húzza feszesebbre a hóláncokat, ha beleütnek a gépkocsi valamelyik alkatrészébe.**

VETRARAKSTUR (ICELANDIC)

Akstur í þungri færð og vetrarveðri leiðir til aukins slits á ökutækinu og skapar ýmis vandamál. Hægt er að draga úr erfiðleikum sem fylgja vetrarakstri ef farið er að þessum ráðleggingum:

Akstur í snjó eða hálku

Við akstur í djúpum snjó kann að vera nauðsynlegt að nota vetrarhjólbarða eða setja keðjur á hjólbarðana.

Reynist nauðsynlegt að nota vetrarhjólbarða þarf að velja hjólbarða af sömu stærð og gerð og venjulegu hjólbarðarnir. Sé það ekki gert getur það dregið úr öryggi og skert aksturseiginleika ökutækisins.

Hraðakstur, skyndileg hröðun, nauðhemlun og krappar beygjur geta enn fremur falið í sér mikla hættu. Þegar dregið er úr hraða er ráðlegt að beita vélarhemlun sem kostur er.

Við nauðhemlun á snævi þöktum eða hálum vegum getur ökutækið hæglega runnið til. Nauðsynlegt er að halda hæfilegri fjarlægð á milli þíns ökutækis og ökutækisins fyrir framan. Alltaf ætti að beita hemlinum mjúklega. Hafa ber í huga að ef keðjur eru settar á hjólbarða fæst aukinn drifkraftur en það hindrar þó ekki að ökutækið renni til hliðanna.

ATHUGIÐ

Notkun snjókeðja er ólögleg í sumum ríkjum. Kynnið ykkur gildandi landslög áður en keðjur eru settar upp.

Vetrarhjólbarðar

Ef vetrarhjólbarðar eru settir á ökutækið þarf að gæta þess að nota þverofna hjól- barða af sömu stærð og ásþunga og upprunalegu hjólbarðarnir. Setjið vetrarhjólbarða á öll fjögur hjólin til að tryggja örugga stýringu ökutækisins við öll veðurskilyrði. Hafið í huga að á auðum vegi kunna vetrarhjólbarðar að hafa minna grip en hjólbarðarnir sem fylgdu ökutækinu. Því þarf að aka af gætni, jafnvel á auðum vegum. Ráðfærið ykkur við söluaðila hjólbarðanna um ráðlagðan hámarkshraða.

VIÐVÖRUN

Stærðir vetrarhjólbarða

Vetrarhjólbarðar ættu að vera af sömu stærð og gerð og hjólbarðarnir sem fylgdu ökutækinu.

Misræmi á því getur dregið úr öryggi og skert aksturseiginleika ökutækisins.

Áður en negldir hjólbarðar eru settir upp er rétt að kynna sér reglugerðir um notkun slíkra hjólbarða í viðkomandi landi, fylki eða sveitarfélagi.

Keðjur á hjólbarða



Hliðar þverofinna hjólbarða eru þynnri en á öðrum hjólbörðum og sumar gerðir snjókeðja geta því valdið skemmdum á þeim. Því er ráðlegt að nota vetrarhjólbarða fremur en keðjur, ef þess er kostur.

Setjið aldrei keðjur á hjólbarða ökutækja sem búin eru álfelgum þar sem keðjurnar geta valdið skemmdum á felgunum. Ef óhjákvæmilegt reynist að nota keðjur skal nota vírkeðjur sem eru innan við 15 mm á þykkt.

Ábyrgðartrygging söluaðila ökutækisins tekur ekki til skemmda sem orsakast af rangri notkun snjókeðja. Snjókeðjur skal aðeins setja á framhjólbarðana.

VARÚÐ

- **Gætið þess að snjókeðjurnar séu af þeirri stærð og gerð sem hæfir hjólbörðunum. Notkun snjókeðja af rangri gerð getur valdið skemmdum á yfirbyggingu og fjöðrun ökutækisins og kann að falla utan ábyrgðartryggingar söluaðila ökutækisins. Þá geta festikrókar keðjanna skemmst vegan núnings við íhluti ökutækisins og snjókeðjurnar losnað af hjólbarðanum. Gætið þess að snjókeðjurnar séu með SAEvottun í S-flokki.**
- **Eftir um það bil 0,5-1 km akstur skal ævinlega skoða keðjurnar aftur til að tryggja að þær hafi verið settar upp á réttan og öruggan hátt. Herðið keðjurnar eða setjið þær aftur á ef þær hafa losnað.**

Uppsetning á keðjum

Þegar keðjur eru settar á skal fylgja leiðbeiningum framleiðanda og herða keðjurnar eins mikið og unnt er. Þegar keðjur hafa verið settar á skal aka hægt. Ef hljóð heyrist sem bendir til að keðjurnar séu í snertingu við yfirbyggingu eða undirvagn er rétt að nema staðar og herða keðjurnar. Ef snerting virðist enn eiga sér stað skal hægja aksturinn þar til hljóðið þagnar.

Takið keðjurnar niður um leið og komið er á rudda og snjólausa vegi.

VIÐVÖRUN

Uppsetning á keðjum

Þegar snjókeðjur eru settar upp skal leggja ökutækinu á sléttum fleti fjarri umferð. Kveikið á viðvörunarljósum ökutækisins og setjið þríhyrningslaga viðvörunarskilti upp fyrir aftan ökutækið, ef það er tiltækt.

Hafið ökutækið ævinlega í stöðuhemli og drepið á vélinni áður en snjókeðjur eru settar upp.

VIÐVÖRUN

Keðjur á hjólbarða

- **Notkun keðja getur skert akstureiginleika ökutækisins.**
- **Akið ekki hraðar en 30 km/klst. eða samkvæmt ráðlögðum hámarkshraða framleiðanda keðjanna, 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 eða læsta hemlun.**

VARÚÐ

- **Séu snjókeðjur af rangri stærð eða rangt upp settar geta þær valdið skemmdum á hemlalögn, fjöðrun, yfirbyggingu og hjólum ökutækisins.**
- **Hvenær sem hljóð bendir til þess að keðjurnar sláist við ökutækið skal stöðva akstur og herða keðjurnar.**

JAZDA ZIMĄ (POLISH)

Surowe warunki pogodowe zimą powodują większe zużycie pojazdu i inne problemy. Aby zminimalizować problemy związane z jazdą w zimie, postępuj zgodnie z poniższymi sugestiami:

Jazda w warunkach

śniegowych i przy oblodzeniu Aby prowadzić pojazd w głębokim śniegu, może okazać się niezbędne użycie opon zimowych lub zainstalowanie łańcuchów śniegowych. Jeśli potrzebne okażą się opony zimowe, konieczne jest wybranie opon o rozmiarze i typie odpowiadających oponom, w jakie pojazd był pierwotnie wyposażony.

Jeśli założone zostaną nieodpowiednie opony, będzie to miało negatywny wpływ na bezpieczeństwo i prowadzenie pojazdu. Ponadto jazda z nadmierną prędkością, gwałtowne przyspieszanie, nagłe hamowanie i ostre skręty będą stanowiły potencjalnie bardzo duże niebezpieczeństwo.

Podczas zwalniania należy w pełni wykorzystać hamowanie silnikiem.

Nagłe hamowanie na zaśnieżonej lub oblodzonej drodze może spowodować poślizg pojazdu.

Należy utrzymywać odpowiedni odstęp od pojazdu jadącego z przodu. Hamulców należy używać ostrożnie. Należy pamiętać, że założenie łańcuchów śniegowych zapewni większą siłę napędową, ale nie zapobiegnie ślizganiu się na boki.

UWAGA

Stosowanie łańcuchów śniegowych nie jest zgodne z prawem we wszystkich krajach. Przed założeniem łańcuchów śniegowych należy sprawdzić przepisy danego kraju.

Opony zimowe

Kiedy zakładane są opony zimowe, należy upewnić się, że są to opony radialne o takim samym rozmiarze i zakresie obciążeń co pierwotne opony pojazdu. Opony zimowe należy zakładać na wszystkie cztery koła pojazdu, by we wszystkich warunkach pogodowych pojazd pozwalał się prowadzić równomiernie. Należy pamiętać, że przyczepność zapewniana przez opony zimowe na suchej drodze może nie być równie wysoka jak przyczepność pierwotnych opon pojazdu. Pojazd należy prowadzić ostrożnie nawet wtedy, gdy drogi są oczyszczone. Aby poznać informacje na temat zalecanych ograniczeń prędkości dla danych opon, należy skontaktować się ze sprzedawcą opon.

OSTRZEŻENIE

Rozmiar opon zimowych

Opony zimowe powinny mieć rozmiar i typ odpowiadający standardowym oponom pojazdu. Jeśli tak nie jest, może to mieć negatywny wpływ na bezpieczeństwo i prowadzenie pojazdu.

Opon okolcowanych nie należy zakładać bez uprzedniego sprawdzenia w przepisach lokalnych, stanowych i miejskich, czy na ich użycie nie są nałożone ograniczenia.

Łańcuchy śniegowe (przeciwpoślizgowe)



Ponieważ ścianki boczne opon radialnych są cieńsze, założenie niektórych rodzajów łańcuchów śniegowych może spowodować ich uszkodzenie. Z tego względu zaleca się korzystanie z opon zimowych zamiast łańcuchów śniegowych.

Łańcuchów śniegowych nie należy zakładać w pojazdach, które są wyposażone w felgi aluminiowe, ponieważ mogą one powodować uszkodzenia felg. Jeśli użycie łańcuchów śniegowych jest niezbędne, należy zastosować łańcuchy drutowe o grubości poniżej 15 mm.

Uszkodzenia pojazdu spowodowane użyciem niewłaściwych łańcuchów śniegowych nie jest objęte gwarancją producenta pojazdu.

Łańcuchy śniegowe należy instalować jedynie na przednich kołach.

OSTROŻNIE

- **Należy upewnić się, że łańcuchy śniegowe mają odpowiedni rozmiar i typ dla opon pojazdu. Zastosowanie niewłaściwych łańcuchów śniegowych może spowodować uszkodzenie nadwozia oraz zawieszenia, a zniszczenia powstałe w ten sposób mogą nie być objęte gwarancją producenta pojazdu. Ponadto, haczyki łączące łańcuchów śniegowych mogą zostać zniszczone na skutek stykania się z elementami samochodu, co może spowodować zsunięcie się łańcuchów z opon. Należy upewnić się, że łańcuchy śniegowe są klasy “S” SAE i posiadają certyfikat.**
- **Po przejechaniu ok. 0,5 do 1 km (0,3 do 0,6 mil), dla zachowania bezpieczeństwa, należy zawsze sprawdzić, czy łańcuchy śniegowe zostały poprawnie założone. Jeśli łańcuchy poluzowały się, należy je zacisnąć lub założyć ponownie.**

Zakiadanie iaccuchyw ьniegowych

Zakładając łańcuchy śniegowe należy postępować zgodnie z instrukcjami podanymi przez producenta.

Łańcuchy należy założyć tak ciasno, jak to tylko możliwe. Kiedy łańcuchy są już założone, pojazd należy prowadzić powoli. Jeśli dadzą się słyszeć dźwięki świadczące o tym, że łańcuchy stykają się z nadwoziem lub podwoziem, należy zatrzymać samochód i zacisnąć je. Jeśli łańcuchy wciąż stykają się z elementami pojazdu, należy zmniejszać prędkość, aż łańcuchy przestaną uderzać w samochód. Łańcuchy należy zdjąć jak tylko rozpocznie się jazdę po oczyszczonej drodze.

OSTRZEŻENIE

Zakładanie łańcuchów śniegowych

Aby założyć łańcuchy śniegowe, należy zatrzymać pojazd na płaskim podłożu, z dala od ruchu drogowego. Włączyć światła awaryjne pojazdu i umieścić za nim trójkąt ostrzegawczy, jeśli jest on dostępny. Zanim rozpocznie się instalowanie łańcuchów śniegowych dźwignię zmiany biegów należy zawsze umieścić w położeniu P (Postój), zaciągnąć hamulec postojowy i wyłączyć silnik.

OSTRZEŻENIE

Łańcuchy śniegowe

- **Użycie łańcuchów śniegowych może mieć negatywny wpływ na prowadzenie pojazdu.**
- **Pojazdu nie należy prowadzić szybciej niż 30 km/h (20 mil/h) lub z prędkością większą, niż zalecana przez producenta, którakolwiek z tych wartości okaże się mniejsza.**
- **Pojazd należy prowadzić ostrożnie i unikać wybojów, dziur, ostrych skrętów i innych zagrożeń drogowych, które mogą powodować podskakiwanie pojazdu.**
- **Należy unikać ostrych zakrętów lub hamowania z zablokowanymi kołami.**

OSTROŻNIE

- **Łańcuchy o niewłaściwym rozmiarze lub niepoprawnie założone mogą uszkodzić linki hamulcowe pojazdu, zawieszenie, nadwozie oraz koła.**
- **Za każdym razem, kiedy da się usłyszeć, że łańcuchy uderzają w samochód, należy zatrzymać się i zacisnąć je.**

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