Foreword

Dear Customer,

Thank you for selecting your new Kia vehicle.

As a global car manufacturer focused on building high-quality vehicles with exceptional value, Kia is dedicated to providing a customer service experience that exceeds your expectations.

This Owner's Manual is valid for all variants of your model, and describes all options, features, and equipment available, along with the maintenance needs. This manual may also describe optional equipment not purchased on your vehicle, country specifications, and functions and features not available in your region. Please always keep this manual in the vehicle for your and any subsequent owner's reference.

Authorized Kia Dealerships provide factory-trained technicians, utilize recommended special service tools and supply genuine Kia replacement parts to help you maintain and service your Kia during your ownership.

All information contained in this Owner's Manual was accurate at the time of publication. As Kia continues to make improvements to its products, the company reserves the right to make changes to this manual or any of its vehicles at any time without notice and without incurring any obligations.

Please drive safely, and enjoy your Kia vehicle!

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How to use this manual

We want you to enjoy your vehicle to the fullest. Your Owner's Manual can assist you in many ways.

We strongly recommend that you read the entire manual. To minimize the chance of death or injury, we urge you to read the DANGER, WARNING and CAUTION sections in the manual.

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

The table of contents provides the general organization of the manual. Use the index when looking for a specific area or subject; it has an alphabetical listing of all information in your manual.

You will find various safety precautions and operating procedures in the form of DANGER, WARNING, CAUTION, NOTE, TIP in this manual. These safety messages were prepared to enhance your personal safety. You should carefully read and follow ALL safety messages, procedures and recommendations provided in this manual.

DANGER

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

WARNING

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

CAUTION

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

NOTE

A NOTE indicates a hazardous situation which, if not avoided, could result in vehicle damage.

TIP

A TIP indicates a vehicle term or information display that requires additional explanation.

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A Abbreviation

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Introduction

Fuel requirements

Your new vehicle uses only unleaded fuel with a pump octane number ((R+M)/2) of 87 (Research Octane Number 91) or higher. Do not use methanol blended fuels.

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

Never add any fuel system cleaning agents to the fuel tank other than what has been specified. Consult an authorized Kia dealer for details.

Tighten the cap until it clicks 1 time. Otherwise the Check Engine light illuminates.

WARNING

Refueling

- Do not "top off" after the nozzle automatically shuts off. Attempts to force more fuel into the tank can cause fuel overflow onto you and the ground, causing a risk of fire.
- Always check that the fuel cap is installed securely to prevent fuel spillage, especially in the event of an accident.

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.

According to Environmental Protection Agency (EPA) regulations, ethanol may be used in your vehicle.

Do not use gasohol containing more than 15% ethanol. Ethanol provides less energy than gasoline and attracts water. Thus, it is likely to reduce your vehicle's fuel efficiency and could lower your MPG results.

Do not use gasoline or gasohol containing any methanol. Methanol 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 any of the following:

1. Gasoline or gasohol containing methanol.
2. Leaded fuel or leaded gasohol.
3. Gasohol containing more than 15% ethanol.

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

TIP

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

NOTE

Never use any fuel containing methanol. Discontinue use of any methanol containing products which may inhibit proper drivability.

Other fuels

Using fuels that contain Silicone (Si), Methylcyclopentadienyl Manganese Tricarbonyl (MMT), Manganese (Mn), and other metallic additives may cause vehicle and engine damage or misfiring, poor acceleration, engine stalling, catalyst melting, clogging, abnormal corrosion, life cycle reduction, and so on. The Malfunction Indicator Lamp (MIL) may illuminate if you use fuel with the additives listed.

TIP

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

Gasoline containing MMT

Some gasoline contains harmful manganese- based fuel additives Such as MMT (Methylcyclopentadienyl Manganese Tricarbonyl). Kia does not recommend the use of gasoline containing MMT. This type of fuel can reduce vehicle performance and affect your emission control system. The Malfunction Indicator Lamp (MIL) on the cluster may come on.

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

Kia recommends that you use good quality gasolines treated with detergent additives, such as TOP TIER™ detergent gasoline, which help prevent deposit formation in the engine. These gasolines will help the engine run cleaner and enhance performance of the emission control system. For more information on TOP TIER™ detergent gasoline, please go to the website (http://www.toptiergas.com). For customers who do not use TOP TIER™ detergent gasoline regularly and have problems starting or running the engine smoothly, you can buy separative additives for the gasoline.

If TOP TIER™ detergent gasoline is not available, 1 bottle of additive should be added to the fuel tank every 8,000 miles (13,000 km) or every engine oil change. Additives are available from your authorized Kia 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.

TIP

Damage or performance problems resulting from any modification may not be covered under the warranty.

NOTE

If you use an unauthorized electronic device, it may cause wire damage, battery discharge, fire, or abnormal vehicle operation. For your safety, do not use unauthorized electronic devices.

Breaking in your vehicle

Following these simple precautions for the first 600 miles (1,000 km) may increase the performance, economy, and lifespan of your vehicle:

- Do not race the engine.
- Avoid sudden acceleration.
- Do not maintain a single engine speed, either fast or slow, for long periods of time. Varying engine speeds is necessary 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 1,200 miles (2,000 km) of operation.
- Depending on your break-in process, fuel economy and engine performance may vary and will stabilize after 4,000 miles (6,000 km). The engine may consume more oil during the break-in period.

Risk of burns when parking or stopping your vehicle

- Do not park or stop the vehicle near flammable items such as leaves, paper, oil, or tires. Such items placed near the exhaust system can become a fire hazard.
- When an engine idles at high speed with the rear side of the vehicle touching the wall, heat from the exhaust gas can cause fire or discoloration. Keep enough space between the rear part of the vehicle and the wall.
- Do not touch the exhaust or catalytic systems while the engine is running or has just been turned OFF. Because the systems are extremely hot, there is a risk of burns.

Vehicle handling instructions

As with all vehicles of this type, failure to operate this vehicle correctly may result in loss of control, an accident, or vehicle rollover.

Specific design characteristics, such as higher ground clearance and track, give this vehicle a higher center of gravity than other types of vehicles. This vehicle is not designed for turning at the same speeds as conventional 2-wheel drive vehicles.

Avoid sharp turns and abrupt maneuvers. Failure to operate this vehicle correctly may result in loss of control, an accident, or vehicle rollover.

Be sure to read "Reducing the risk of a rollover" on page 429.

Vehicle data collection and Event Data Recorders (EDR)

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

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

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

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

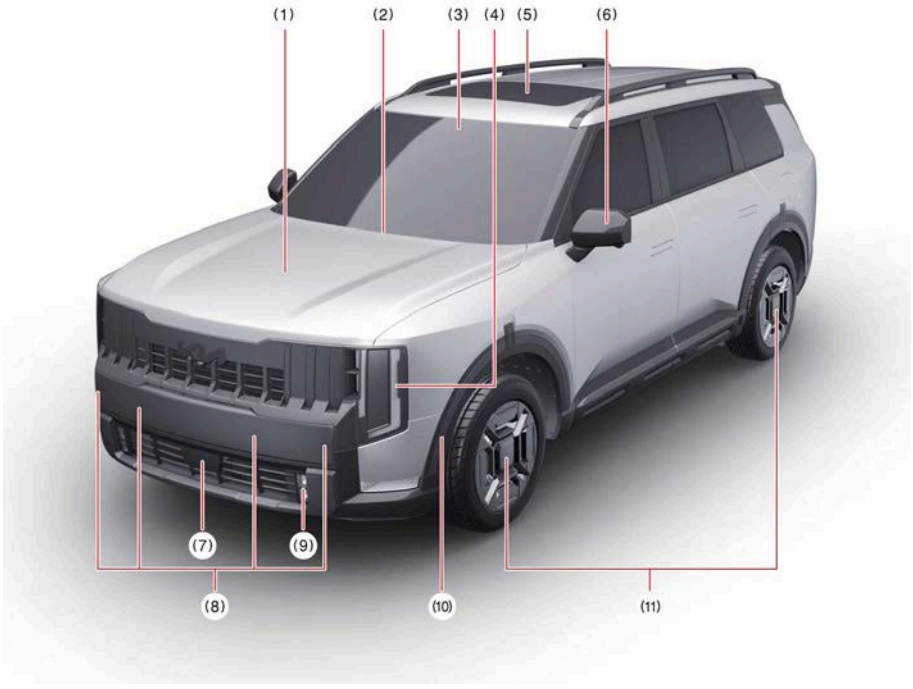
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Overview

Exterior overview

Front view



OLQ2A025001

* The actual shape of your Kia may differ from the illustration.

(1) Hood - 97

(2) Front windshield wiper blades - 185, 719

(3) Front view camera - 464

(4) Headlamp - 176, 766

(5) Sunroof - 100, 106

(6) Outside rearview mirror - 139

(7) Front radar - 464

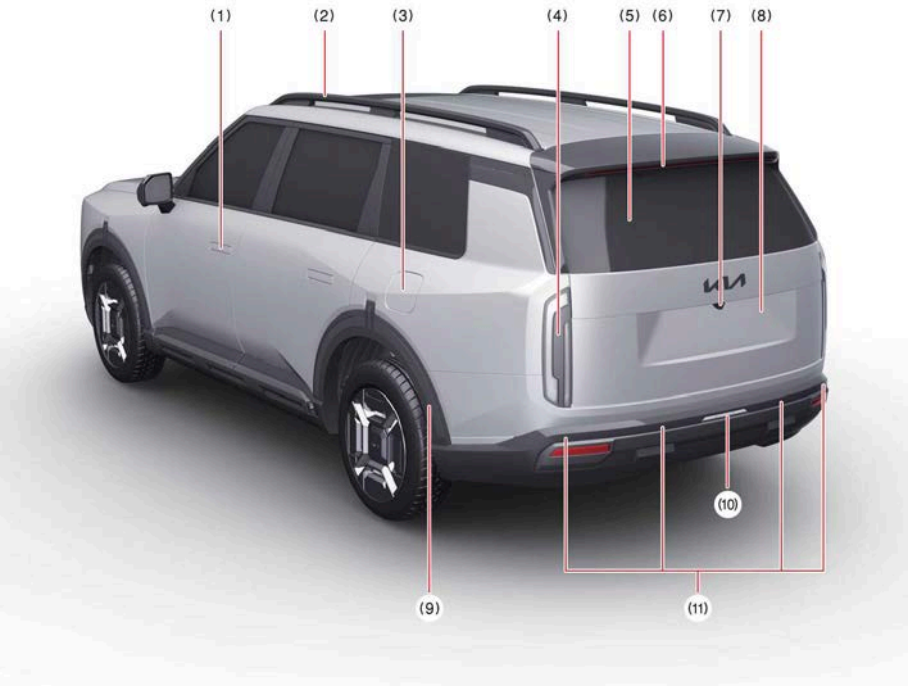
(8) Front ultrasonic sensors - 464

(9) Front fog lamp - 766

(10) Front side ultrasonic sensors - 464

(11) Wheel and tire - 29

Rear view



OLQ2A025002

* The actual shape of your Kia may differ from the illustration.

(1) Doors - 50

(2) Roof rack - 356

(3) Fuel filler door - 112

(4) Rear combination lamp - 767

(5) Glass antenna - 294

(6) High mounted stop lamp - 767

(7) Wide-rear view camera - 598

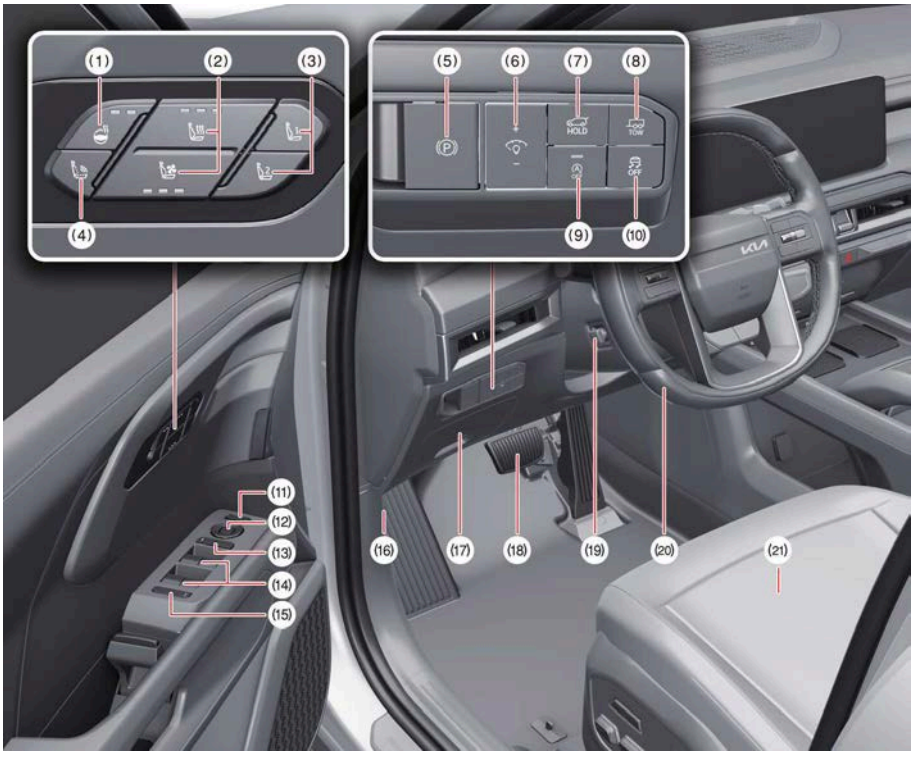
(8) Liftgate - 76, 87

(9) Rear side ultrasonic sensors - 632

(10) Reversing lamp - 767

(11) Rear ultrasonic sensors - 624, 632

Interior overview



OLQ2A025003_2

* The actual shape of your Kia may differ from the illustration.

(1) Steering wheel heater button - 120

(2) Front seat warmer and air ventilation seat button - 338, 341

(3) Integrated memory system - 144

(4) Comfort stretch control switch- 208

(5) EPB switch - 381

(6) Instrument panel illumination control switch - 153

(7) Power liftgate open/close button - 76, 82, 87

(8) TOW mode button - 427

(9) ISG OFF button - 403

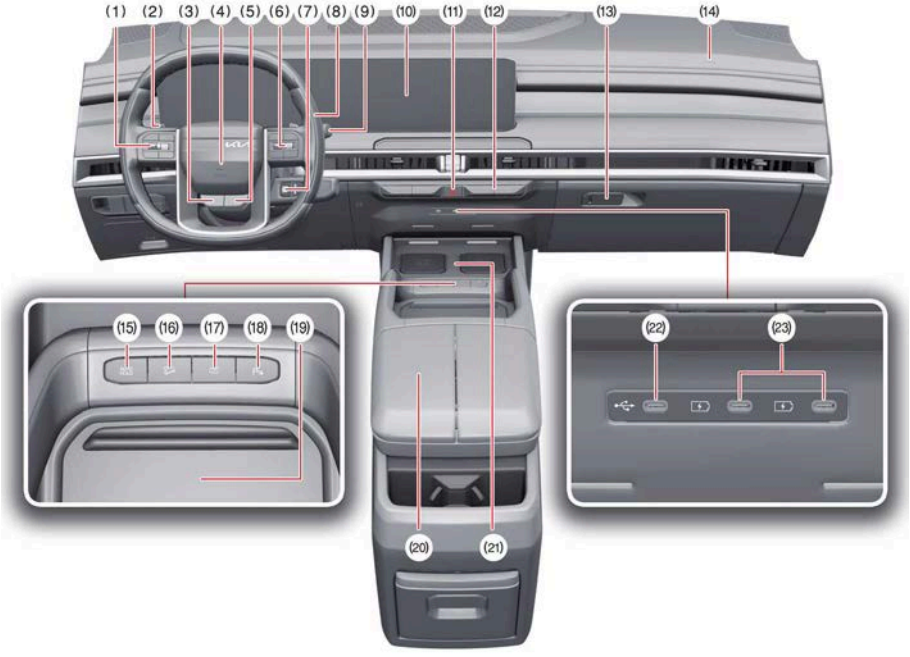
(10) ESC OFF button - 393

(11) Outside rearview mirror R or L control switch - 139

(12) Outside rearview mirror control and folding switch - 139

(13) Central door lock/unlock switch - 54
(14) Power window switches - 93
(15) Power window lock button 94
Electronic power child safety lock button - 57
(16) Hood release lever - 97
(17) Instrument panel fuse - 748
(18) Brake pedal - 379
(19) Tilt and telescopic steering wheel lever and switch - 119
(20) Steering wheel - 118
(21) Seat - 196

Instrument panel overview



OLQ2A025004_2

* The actual shape of your Kia may differ from the illustration.

(1) Driving Assist button - 493, 556

(2) Light control/turn signals lever - 176

(3) DRIVE MODE button - 411

(4) Horn - 122
Driver's front air bag - 276

(5) TERRAIN MODE button - 416

(6) Audio remote control button

(7) Shift lever - 369
ENGINE START/STOP button - 364

(8) Instrument cluster - 147

(9) Wiper and washer control lever - 185

(10) Infotainment system - 291

(11) Hazard warning flasher switch - 660

(12) Climate control system - 313
(13) Glove box - 331
(14) Passenger's front air bag - 276
(15) AUTO HOLD button - 386
(16) DBC switch - 398
(17) Parking/View button - 600, 606
(18) Parking Safety button - 625
(19) Cup holder- 337
(20) Center console storage box - 331
(21) Wireless charging system/USB Charger - 346, 342
(22) USB port - 295
(23) USB charger - 342

Engine compartment overview

Smartstream G2.5 T-GDi (Gasoline)



OLQ2A025005

* The actual engine compartment in your Kia may differ from the illustration.

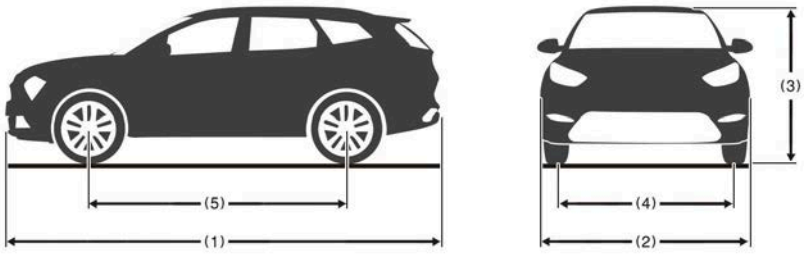
(1) Windshield washer fluid reservoir - 714
(2) Engine coolant reservoir - 708
(3) Engine oil dipstick - 705
(4) Engine oil filler cap - 705
(5) Brake fluid reservoir - 712
(6) Negative 12V battery terminal - 662, 723
(7) Positive 12V battery terminal - 662, 723
(8) Air cleaner - 715
(9) Fuse box - 752

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Specifications

Dimensions



KIAPB041_2

Item				7, 8 Seats inches (mm)		
				Base	X-Line	X-Pro
(1)	Overall length			199.2 (5,060)		
(2)	Overall width			78.3 (1,990)		
(3)	Overall height	Without roof rack		69.5 (1,765)		70.5 (1,790)
		With roof rack		69.9 (1,775)	70.5 (1,790)	71.5 (1,815)
(4)	Tread	Front	235/65 R18	67.7 (1,720)		-
			255/60 R18	-		67.4 (1,713)
			255/50 R20	67.3 (1,709)		-
			265/45 R21	67.4 (1,711)		-
		Rear	235/65 R18	68.2 (1,732)		-
			255/60 R18	-		68.1 (1,731)
			255/50 R20	67.8 (1,721)		-
			265/45 R21	67.8 (1,723)		-
(5)	Wheelbase			116.9 (2,970)		

Engine

Item	Smartstream G2.5 T-GDi
Displacement [cu. in. (cc)]	152.3 (2,497)
Bore x Stroke [inches (mm)]	3.5 x 4 (88.5 x 101.5)
Firing order	1-3-4-2
No. of cylinders	4 (inline)

Gross vehicle weight

Item	Engine	Wheel size	FWD		AWD	
			7 seats	8 seats	7 seats	8 seats
USA [lb (kg)]	Smartstream G2.5 T-GDi	8.0J X 18"	-	6,063 (2,750)	6,261 (2,840)	-
		8.0J X 20"	6,063 (2,750)	6,063 (2,750)	6,261 (2,840)	6,261 (2,840)
		8.5J X 21"	-	-	6,261 (2,840)	-

Luggage volume

- MIN: Behind the 3rd row.
- MAX: Behind the front seat to the roof.

Item		7 seats	8 seats
Luggage volume (SAE) [cu ft (L)]	MIN.	19.9 (563)	
	MAX.	86.9 (2,460)	

Air conditioning system

Contact an authorized Kia dealer for more details.

Item	Weight of volume [oz. (g)]	Classification
Refrigerant	30.0 ± 0.9 (850 ± 25)	R-1234yf
Compressor lubricant	6.7 ± 0.35 (190 ± 10)	PAG

Bulb wattage

* : if equipped

Light bulb		Bulb type	Wattage (Watt)
Front	High beam	LED	LED
	Low beam	LED	LED
	Auxiliary low beam	LED	LED
	Position and daytime running lights	LED	LED
	Turn signal lamps	LED	LED
	Front fog lamps*	LED	LED
	Front side marker lamps	LED	LED
Rear	Stop and tail lamps	LED	LED
	Turn signal lamps	LED	LED
	Side marker lamps	LED	LED
	Back up lamps	LED	LED
	High mounted stop lamps	LED	LED
	License plate lamps	LED	LED
Interior	Map lamps	LED	LED
	Room lamps	LED	LED
	Personal lamps	LED	LED
	Vanity mirror lamps	LED	LED
	Glove box lamp*	LED	LED
	Center console storage lamp*	LED	LED
	Luggage compartment light*	LED	LED
	Ambient light*	LED	LED
	Liftgate light*	LED	LED

Tires and wheels

Item	Tire size	Wheel size	Load capacity		Speed capacity		Inflation pressure [bar (psi, kPa)]		Wheel lug nut torque kgf·m (lbf·ft, N·m)
			LI [1]	kg	SS [2]	km/h	Front	Rear	
Full size tire	235/65 R18	8.0J X 18"	106	950	H	210	2.5 (36, 250)		11-13 (79-94, 107-127)
	255/60 R18	7.5J X 18"	108	1,000	H	210	2.4 (35, 240)		
	255/50 R20	8.0J X 20"	109	1,030	V	240	2.5 (36, 250)		
	265/45 R21	8.5J X 21"	108	1,000	V	240	2.5 (36, 250)		
Compact spare tire (steel wheel) [3]	T155/90 R18	4.0B X 18"	113	1,150	M	130	4.2 (60, 420)		

1. Load Index
2. Speed Symbol
3. if equipped

NOTE

- When you replace the tires, use the same kind of tires as those originally installed on your vehicle. Failure to do so may affects driving performance.
- When you drive in high altitude grades, atmospheric pressure decreases. You should check the tire pressure and add more air when necessary.

  Additionally required tire air pressure per mile (km) above sea level: 3.3psi/mile (1.5 psi/km)

Recommended lubricants and capacities

To help achieve proper engine and powertrain performance and durability, use only correct lubricants. Correct lubricants also promote engine efficiency, which improves fuel economy. Use the following lubricants and fluids in your vehicle:

Lubricant		Volume	Classification
Engine oil (drain and refill) Kia TotalEnergies	Smartstream G2.5 T-GDi	6.13 US qt. (5.8 L)	Full synthetic SAE 0W-30, API SN PLUS/SP, or ILSAC GF-6
Automatic transmission (AT) fluid [1]		7.5 US qt. (7.1 L)	SK ATF SP4M-1, MICHANG ATF SP4M-1, S-OIL ATF SP4M-1, Kia Genuine ATF SP4M-1
Coolant [2]	Smartstream G2.5 T-GDi	12.16 US qt. (11.51 L)	Phosphate based ethylene glycol based coolant
Brake fluid		As required	DOT 4
Rear differential oil (AWD)		0.70-0.77 US qt. (0.66-0.73 L)	HYPOID GEAR OIL API GL-5, SAE 75W/85 (Recommended: SK HCT-5 GEAR OIL 75W/85 or equivalent)
Transfer case oil (AWD)		0.70-0.77 US qt. (0.66-0.73 L)	HYPOID GEAR OIL API GL-5, SAE 75W/85 (Recommended: SK HCT-5 GEAR OIL 75W/85 or equivalent)
Fuel		19 US gal. (72 L)	Gasoline

1. Use only specified genuine automatic transmission fluid. Using a non-specified transmission fluid (even if marked as compatible with genuine) could result in shift quality deterioration, vibration, and transmission failure. Refer to "Explanation of scheduled maintenance items" on page 702.
2. Different types of coolant, or water, may damage electrical components.

Recommended SAE viscosity (thickness) number

NOTE

Always clean the area around any filler plug, drain plug, or dipstick before you check or drain any lubricant (especially in dusty or sandy areas or if you drive on unpaved roads). Cleaning the plug and dipstick areas prevents dirt and grit from entering the engine or other mechanisms that could be damaged.

NOTE

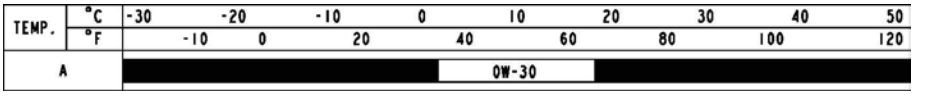
Never add any additives to the engine oil. Engine oil additives can change the properties of engine oil and may cause serious engine failure.

Engine oil viscosity (thickness) affects fuel economy and cold weather operation (including engine starting and engine oil flow ability). Lower viscosity engine oils can provide better fuel economy and cold weather performance. 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 you choose an engine oil, consider the range of temperature you will operate your vehicle in before your next oil change. Select the recommended oil viscosity from the chart below.

Temperature Range for SAE Viscosity Numbers

A: Smartstream G2.5 T-GDi





The American Petroleum Institute (API) Certification Mark denotes engine oils that conform to the International Lubricant Specification Advisory Committee (ILSAC). You should only use engine oils marked with the API Certification Mark.

Vehicle Identification Number (VIN)

Use your Vehicle Identification Number (VIN) to register your vehicle and in all legal matters pertaining to ownership.

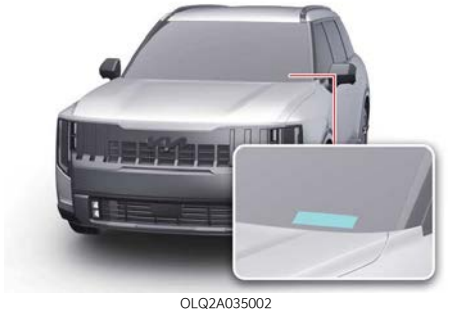
VIN cover



OLQ2A035001

The VIN is punched into the floor underneath the passenger seat. To check the VIN, open the cover.

VIN label



OLQ2A035002

The VIN is also on a plate attached to the top of the instrument panel. You can see the VIN on the plate through the windshield from outside.

Vehicle certification label



OLQ2A035003

The vehicle certification label located on the center pillar on the driver side also states the VIN.

Tire specification and pressure label



OLQ2A035004

The tires equipped on your new vehicle are chosen to provide the best performance for normal driving. The tire label located on the center pillar on the driver side states the recommended tire pressures for your vehicle.

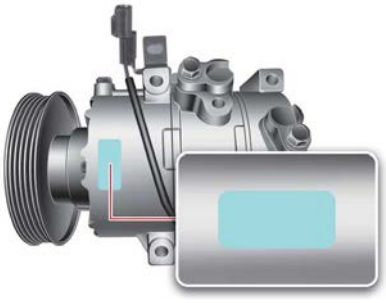
Engine number



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

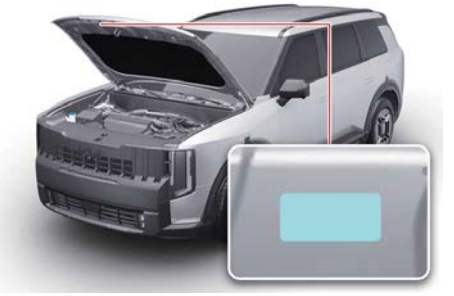
Air conditioner compressor label



KIAPB042

The air conditioner compressor label states which type of compressor your vehicle is equipped with, along with relevant information such as the model, supplier, part number, production number, refrigerant, and refrigerant oil.

Refrigerant label



OLQ2A035006

The refrigerant label is located underneath the hood, and states the following information:

- Type of refrigerant
- Amount of refrigerant

* For more information, refer to "Air conditioning (A/C) refrigerant label" on page 311.

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Opening and closing

Keys

The smart key integrates the mechanical key and various remote functions.

WARNING

Smart key

Never leave the keys in your vehicle with unsupervised children. Leaving children unattended in a vehicle with a manual a smart key is dangerous.

Children imitate adults, and they could press the start button. The key would allow children to operate power windows or other controls, or even make the vehicle move, which could result in serious bodily injury or death.

Record your key number



The key code number is stamped on the key code tag attached to the key set. If you lose your keys, this number will allow an authorized Kia dealer to duplicate the keys easily. Remove the key code tag and store it in a safe place. Record the key code number and keep it in a safe, handy place outside the vehicle.

WARNING

Aftermarket keys

Use only Kia original parts for the key in your vehicle. If you use an aftermarket key, the ENGINE START/STOP button may not return to ON after START. The starter will continue to operate, causing excessive current in the wiring, which could result in a possible fire.

WARNING

Never leave the keys in your vehicle

Leaving children unattended in a vehicle with the keys is dangerous, even if the vehicle is in ACC or ON. Unattended children could press the start button and may operate power windows or other controls, or even make the vehicle move, which could result in serious bodily injury or death. Never leave the keys in your vehicle with unsupervised children when the vehicle is running.

Smart key

With a smart key, you can lock or unlock a door and even start the vehicle without inserting the key.



N_CT25C001

The smart key works when it is within approximately 33 feet (10 m) of the vehicle. Antenna within the vehicle sense when the smart key is within range.
Tinting the vehicle windows with film, especially metalized film, may interfere with the smart key's signal and reduce its operating range.

Lock (1)

All doors will lock if you press the lock button while the key is within range of the vehicle. Once all doors are closed, the hazard warning lights will blink, and the chime will sound once to indicate that all doors are locked.
If you press the lock button again, the hazard warning lights will blink, and the chime will sound once to confirm that the door is locked.
If any door remains open or if the key is out of range, the hazard warning lights (and/or the chime) will not signal. If all doors are closed after you press the lock button, the hazard warning lights will blink once.

Unlock (2)

The driver's door is unlocked if the unlock button is pressed once. The hazard warning lights will blink twice, and the chime will sound twice to indicate that the driver's door is unlocked..
All doors are unlocked if the unlock button is pressed once more. The hazard warning lights will blink twice to indicate that all doors are unlocked.
Note that the doors will relock automatically if you do not open any door within 30 seconds of pressing the unlock button.
The door will not lock or unlock with the smart key's lock/unlock button in the following situations:

- When the vehicle is in ACC or ON.
- When you try to lock a door when 1 or more doors are open.

Depending on the vehicle, the driver can activate or deactivate the 2-press unlock setting. For detailed information, refer to the separately supplied infotainment system manual.

TIP

- Tinting the vehicle windows with film, especially metalized film, may interfere with the smart key's receiving frequency and reduce its operating range.
- If the smart key is inoperative due to exposure to water or other liquids, it will not be covered by your manufacturer's vehicle warranty.

Liftgate unlock, Power liftgate open/close (3) (if equipped)

The power liftgate unlocks or opens (if equipped) if you press the button for more than 1 second.

When the power liftgate is open, press and hold the power liftgate open/close button to close the liftgate. If you release the button while the liftgate is closing, the power liftgate will stop operating and a warning will sound for 5 seconds.

The liftgate open/close button button only operates when the smart key is within 40 in (1 m) of the liftgate.

If your vehicle is equipped with power liftgate then the liftgate will automatically open.

Panic alarm (4)

The horn sounds and the hazard warning lights blink for about 30 seconds if you press the panic alarm button for more than 1 seconds. To stop the horn and lights, press any button on the smart key.

Remote smart parking assist (RSPA) (5, 6) (if equipped)

* The Remote smart parking assist (RSPA) helps the drivers park their vehicle by using sensors to measure parking spaces and control the steering wheel, gear shift and vehicle speed to semi-automatically park the vehicle. With the smart key, the driver can move the vehicle forward or backward using the forward/ backward buttons (5, 6) on the smart key. For more information, refer to "Remote Smart Parking Assist (RSPA)" on page 640.

Remote start (7) (if equipped)

You can start the vehicle using the smart key's remote start button.

To start the vehicle remotely:

1. Lock the doors by pressing the door lock button (1) within 33 ft (10 m) of the vehicle.
2. Within 4 seconds after locking the doors, press and hold the remote start button for at least 2 seconds. The hazard lights will blink 3 times and the engine will start.

Press the remote start button (7) once to turn off the vehicle.

If you take no further action to operate the vehicle, it will turn off 10 minutes after you started it remotely.

While remote starting, the hazard warning lights blink 3 times. If you want to stop the vehicle, press the remote Start button (7) again.

NOTE

Operation status by the hazard warning light may not be applicable based on the regulation of your state.

TIP

- The vehicle must be in P (Park) for the remote start function to start.
- The engine turns off if you enter the vehicle without a registered smart key.
- If you enter the vehicle without the smart key while the car is starting remotely, **Carry your key to keep the ignition on** is displayed.
- The engine turns off if you do not get on the vehicle within 10 minutes after remotely starting the vehicle.
- The Remote Start button (5) may not operate if the smart key is not within 33 ft. (10 m).

- The vehicle will not remotely start if the engine hood or liftgate is opened.
- Do not idle the engine for a long period.
- Do not operate remote start in closed areas where there is no adequate ventilation for the engine exhaust.

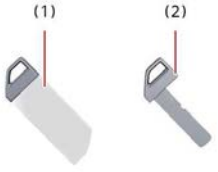
Start while inside the vehicle

You can start the vehicle when the smart key is carried with you or placed inside the vehicle.
* For more information, refer to "Starting the engine" on page 367.

Mechanical key

When the battery of the smart key is discharged, or the smart key does not operate normally, you can lock or unlock the door using the mechanical key (2).

(1)Mechanical key protective cover
(2)Mechanical key



N_CT25C002

To remove the mechanical key, pull the mechanical key protective cover (1) off the smart key.

Smart key precautions

The smart key may not operate if any of the following occur:
- The smart key is close to a radio transmitter that can interfere with its normal operation, such as a radio station or an airport.
- The smart key is near a mobile 2-way radio system.
- The smart key is near a mobile phone, particularly if the phone is being used to make or receive calls or to send or receive messages. Avoid placing the smart key adjacent to a mobile phone.
- Another vehicle's smart key is being operated near your vehicle.

When the smart key does not work correctly, try the spare, or open and close the door with the mechanical key. When your smart key does not work correctly, contact an authorized Kia dealer.

If the smart key is near your cell phone or smartphone, the phone could be blocking the smart key's signal. This is especially likely when the phone is active, such as when making or receiving calls, text messaging, and sending or receiving emails. Avoid placing the smart key and your cell phone or smartphone in the same pants or jacket pocket. Maintain adequate distance between the 2 devices.

If you do not move the smart key for some time, its detection function (if equipped) will pause. Lift the smart key to reactivate the detection function.

NOTE

Losing the smart key

A maximum of 2 smart keys can be registered to a single vehicle.

If you happen to lose both smart keys, you will not be able to start the vehicle. You should immediately contact an authorized Kia dealer for assistance. Tow the vehicle if necessary to protect it from potential theft.

NOTE

Smart key

Keep the transmitter away from water or any liquid, as it can become damaged and not function properly.

NOTE

- To prevent magnetic damage to the smart key, do not leave it near the following electrical appliances:
  - TVs
  - Personal computers
  - Mobile phones, cordless phones, and battery chargers
  - Table lamps
  - Induction cookers
- If you must leave the vehicle's key with a parking attendant, remove the mechanical key for your own use and provide the attendant with the smart key only.
- When bringing a smart key onto an airplane, make sure you do not press any button on the key while inside the cabin. If you are carrying the key in your bag or elsewhere, make sure that the buttons cannot be pressed accidentally. If you press a button, the key may emit radio waves that could interfere with aircraft operation.
- If the smart key is inoperative due to exposure to water or other liquids, it will not be covered by your manufacturer's vehicle warranty.

This device complies with Part 15 of the FCC rules.

Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. this device must accept any interference received, including interference that may cause undesired operation.

TIP

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. If the smart key 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.

Battery replacement

The smart key uses a 3V lithium battery, which normally lasts for several years.



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N_CT25C003

If you are unsure how to use or replace the battery, contact an authorized Kia dealer.
To replace the smart key battery:

1. Gently pry open the key battery cover using a thin tool.
2. Replace the old battery with a new battery (CR2450). When replacing the battery, make sure to align the battery poles properly.
   If the battery is installed with incorrect polarity, it will discharge, rendering the key unusable.
3. Install the battery in the reverse order of removal.
   To replace your smart key, visit an authorized Kia dealer.
   The smart key can give you years of trouble-free use. However, it can malfunction if exposed to moisture or static electricity. If you are unsure how to replace the battery, contact an authorized Kia dealer.
   Using the wrong battery can cause the smart key to malfunction. Be sure to use the correct battery.

   Inappropriate disposal of the battery can be harmful to the environment and human health. Dispose of the battery according to your local laws or regulations.

⚠ WARNING

THIS PRODUCT CONTAINS A BUTTON BATTERY

If swallowed, a lithium button battery can cause severe or fatal injuries within 2 hours.
Keep batteries out of reach of children.
If you think a battery may have been swallowed or placed inside any part of the body, seek medical attention immediately.

NOTE

Smart key damage
The smart key can malfunction if dropped or exposed to moisture, static electricity, heat, or direct sunlight.

Immobilizer system

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

When you place the ENGINE START/STOP button in the ON position, the immobilizer system indicator should come on briefly and then go off. If the indicator starts to blink, the system does not recognize the coding of the key.

Place the ENGINE START/STOP button in the OFF position, then place the ENGINE START/STOP button in the ON position again.

If the system repeatedly does not recognize the key's coding, contact an authorized Kia dealer.

Do not attempt to alter or add other devices to this system, as this could result in electrical problems that may render your vehicle inoperable.

Deactivating the immobilizer system

Turn the ENGINE START/STOP button to the ON position.

Activating the immobilizer system

Change the ENGINE START/STOP button to the OFF position. The immobilizer system activates automatically. Without a valid smart key for your vehicle, the engine will not start.

TIP

- When starting the vehicle, do not use the key with other immobilizer keys around. Otherwise, the vehicle may not start or may stop soon after it starts. Keep each key separate to avoid a malfunction.
- If you need additional keys or lose your keys, contact an authorized Kia dealer.
- 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 should be kept confidential. Do not leave this number anywhere in your vehicle.

This device complies with Part 15 of the FCC rules.

Operation is subject to the following two conditions:

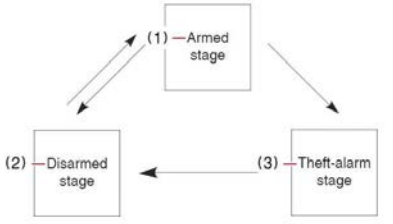
1. This device may not cause harmful interference, and
2. this device must accept any interference received, including interference that may cause undesired operation.

TIP

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.

Theft-alarm system

The theft-alarm system provides protection from unauthorized entry into the vehicle.
This system is operated in 3 stages:



(1) Armed stage
(2) Disarmed stage
(3) Theft-alarm stage

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If triggered, the system alarm sounds, and the hazard warning lights blink.

NOTE

- Do not change, alter or adjust the theft-alarm system because it could cause the theft-alarm system to malfunction. In this case, have the checked by an authorized Kia dealer.
- Malfunctions caused by improper alterations, adjustments or modifications to the theft-alarm system are not covered by your vehicle manufacturer warranty.
- Do not attempt to alter this system or add other devices to it. Electrical problems could result that may make your vehicle inoperable.

Armed stage

After you park the vehicle, follow these steps to arm the Theft-alarm system:

1. Press the ENGINE START/STOP button in the OFF position.
2. Make sure that all the doors, the hood, and the liftgate are closed and latched.
3. To lock the doors, press the button on the front outside door handle with the smart key in your possession.

   After you complete these steps, the hazard warning lights blink once to indicate that the system is armed. If any door, the liftgate, or the hood remains open, the theft-alarm system will not arm, the hazard warning lights will not blink, and the chime will not sound. You can also arm the system by using the key to lock the doors; however, the hazard warning lights will not blink.
4. Press the smart key's lock button to lock the doors.

   After you complete these steps, the hazard warning lights blink once to indicate that the system is armed.

TIP

The theft-alarm system can be deactivated by an authorized Kia dealer.
If you want this feature deactivated, consult an authorized Kia dealer.

TIP

Do not arm the system until all passengers have left the vehicle. If the system is armed while passengers remain in the vehicle, the alarm may activate when the remaining passengers leave the vehicle. If you open any door, the liftgate, or the hood within 30 seconds after the system is armed, the system will be disarmed to prevent unnecessary alarm.

Theft-alarm stage

The alarm sounds and the hazard warning lights blink continuously for approximately 30 seconds if any of the following occur while the system is armed:
- You open a front or rear door without using the smart key.
- You open the liftgate without using the smart key.
- You open the hood.

Unless the system is disarmed, the horn sounds, the hazard warning lights blink continuously for approximately 27 seconds, and then the horn sounds 3 times. To turn the system OFF, unlock the doors with the mechanical key or smart key.

Disarmed stage

The system disarms when:
- You press the door unlock button.
- You press the button on the front outside door handle with the smart key in your possession.
- You start the engine (within 3 seconds).

After you press the unlock button, the hazard warning lights will blink, and the chime will sound twice (in the smart key) to indicate that the system is disarmed.
After you press the unlock button, if you do not open any door (or liftgate) within 30 seconds, the system will rearm.

TIP

- Avoid trying to start the engine while the alarm is activated. The vehicle starting motor is disabled during the theft-alarm stage.
- If you lose your keys, consult an authorized Kia dealer.

NOTE

Adjusting alarm system
- Do not change, alter or adjust the immobilizer system because it could cause the immobilizer system to malfunction. In this case, have the checked by an authorized Kia dealer.

- Malfunctions caused by improper alterations, adjustments or modifications to the immobilizer system are not covered by your vehicle manufacturer warranty.
- Do not attempt to alter this system or add other devices to it. Electrical problems could result that may make your vehicle inoperable.

TIP

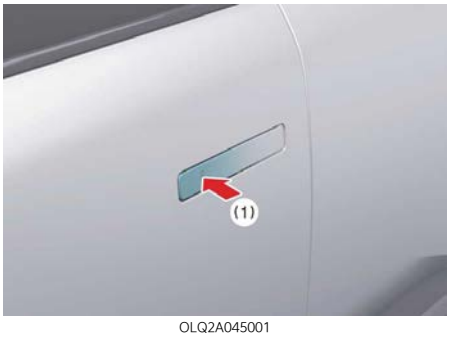
Malfunctions caused by improper alterations, adjustments, or modifications to the theft-alarm system are not covered by your vehicle manufacturer warranty.

Door locks

Know how to use the door lock so that you can lock or unlock the doors and liftgate.

With the smart key

With the smart key, you can lock and unlock the vehicle doors and liftgate. You can also start the engine. Refer to the following sections for more details.



OLQ2A045001

Locking

With all doors closed and any door unlocked, touch the door lock/unlock sensor of the front driver side door handle to lock all the doors. If all doors and the engine hood are closed, the hazard warning lights will blink once to indicate that all doors are locked.

Unlocking

1. Touch the door lock/unlock sensor of the driver side door handle once with all doors closed and locked, and it will unlock the driver's door. The hazard warning lights will blink twice, and the chime will sound twice to indicate that the driver's door is unlocked.
2. Touch the door lock/unlock sensor of the driver side door handle once more, and it will unlock all the doors. The hazard warning lights will blink twice, and the chime will sound twice to indicate that all doors are unlocked.
3. Touch the door lock/unlock sensor of the front passenger's door handle with all doors closed and locked, and it will unlock all the doors. The hazard warning lights blink twice to indicate that all doors are unlocked.

TIP

- The door handle touch sensor will only operate when the smart key is within 40 inches (1 m) of the outside door handle.
- If you try to lock the doors using the door handle button, the doors will not lock, and the chime will sound for 3 seconds under the following circumstances:
  - The smart key is in the vehicle.
  - The vehicle is in the ACC or ON position.
  - Any door other than the liftgate is open.

After you press the door lock/unlock button to unlock, the doors will lock automatically unless you open any door within 30 seconds.

Approach Unlock system

The outside door handle will slide out and the doors will unlock when the driver approaches the vehicle possessing the smart key.
The driver can activate/deactivate the Approach Unlock system on the infotainment screen.
To activate Approach unlock system for only the driver's seat, select **Setup > Vehicle > Door Unlock on Approach or Touch > Unlock Driver's Door** in the infotainment system screen.

When washing the vehicle

Self car wash

- Keep the door locked with the outside door handle closed.
- The door handle may pop out if moisture or a cloth comes into contact with the lock/unlock sensor. Stay the key away at least 78 inches (2 m) from the vehicle to prevent the outside door handle operates.

NOTE

Leave the key inside the vehicle, keeping the vehicle in acc or on mode when there is an unintended warning sound.

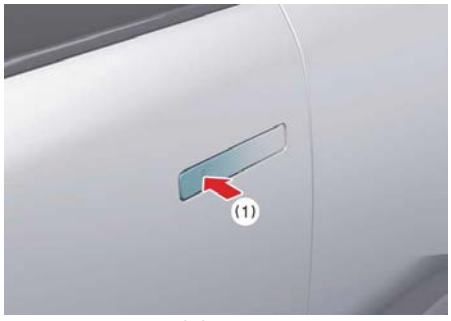
Automatic car wash

- When entering an automatic car wash, ensure the vehicle is in ACC, ON mode and shift the gear to the N (Neutral) position.
  Refer to "To stay in N (Neutral) when engine is OFF" on page 373
- Keep the doors locked when you are inside the vehicle with the smart key in your possession.
- If the smart key is not in the vehicle, keep the doors locked and stay the smart key away at least 78 inches (2 m) from the vehicle to prevent the outside door handle operates.

CAUTION

When you use automatic car wash with the door handles out, door handles can be damaged or the doors can be opened.

With the mechanical key



OLQ2A045001



OLQ2AH045003



OLQ2A045003

Only the driver's door can be locked or unlocked using the manual key.

To operate door locks with the mechanical key:

1. Pull the door handle while pressing the front part of the outside door handle (1) (front side of the vehicle). Then remove the cover (3) under the rear part of the door handle (2).
2. Insert the key (4) into the key hole and turn it to lock or unlock the door.
3. After unlocking with the mechanical key, remove the key.
4. Release the door handle.
5. Press the front part of the door handle again to manually pop out the handle, then pull it out to open the door.
6. Reinstall the removed cover.

NOTE

- Be aware that the mechanical key can only lock/unlock the driver's door.
- To lock all doors, operate the central lock switch inside the vehicle. Open the car door using the inner handle, then close the door and lock the driver's door with a mechanical key.
- Refer to "Operating door locks from inside the vehicle" on page 54 to lock the doors from inside the vehicle.

NOTE

- Be careful not to lose or scratch the key cover when removing it.
- If the key cover freezes and does not open, tap it lightly or indirectly warm it up, such as with the warmth of your hands.
- Do not apply excessive force to the door or door handle. This may cause damage.
  If you close the door with excessive force or pull the door handle too quickly, the internal safety mechanism may activate and prevent the door from opening even when you pull the handle. If this happens, slowly pull the door handle again to open the door.

NOTE

- 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 to protect the circuit and prevent damage to system components.

WARNING

- Securely close your door before you begin driving. Failure to fully close your door may cause it to open during vehicle operation.
- Keep your body out of the way of the closing door to prevent injuries.

WARNING

If any passengers must remain in the vehicle while it is very hot or cold outside, there is a risk of injuries or danger to life. Do not lock the vehicle from the outside when there are passengers in the vehicle.

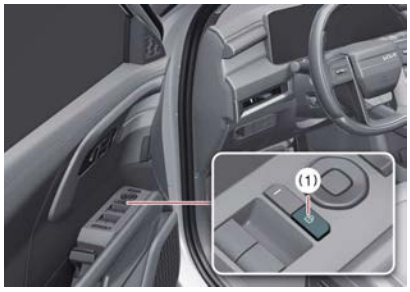
NOTE

Do not unnecessarily open and close the door repeatedly or with excessive force. Such action can damage the vehicle door.

NOTE

Always place the ENGINE START/STOP button in the OFF position, engage the parking brake, close all windows, and lock all doors when leaving your vehicle unattended.

- To lock a door without the key, push the central door lock button (1) when the ENGINE START/STOP button is in the OFF position and close the door.



OLQ2A045004

- If you lock the door with the central door lock button (1), all vehicle doors will lock automatically.

> **TIP**
>
> Always engage the parking brake, close all windows, and lock all doors when leaving your vehicle unattended.

Operating door locks from inside the vehicle

You can operate door locks from inside the vehicle with the door lock handle or central door lock switch.

With the door handle



OLQ2A045005

- Front door

  If you pull the inner door handle when the door is locked, the door will unlock and open.
- Rear door

  If you pull the inner door handle 1 time when the door is locked, the door will unlock.

  If you pull the inner door handle 1 more time, the door will open.

Door lock malfunction

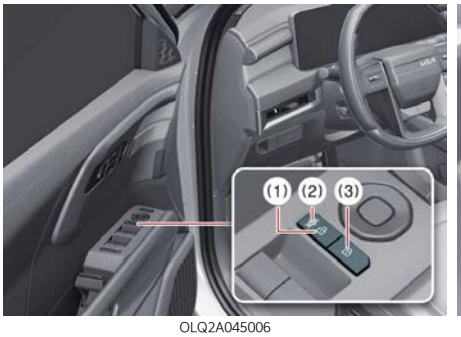
If a power door lock does not work while you are in the vehicle, try 1 or more of the following techniques to exit:

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

WARNING

Do not pull the inner door handle of any door while the vehicle is moving.

With central door lock switch



OLQ2A045006



OLQ2A045007

(1) Door unlock
(2) Doors indicator light
(3) Door lock

Press the central door lock button to operate the door locks.

- To lock all vehicle doors, press the central door lock button (3) on the driver and passenger side.
- To unlock all vehicle doors, press central door unlock button (1) on the driver and passenger side.

When all vehicle doors are locked, the indicator lights (2) on the front doors will turn off. If any door is unlocked, its indicator light will turn on.

If any door is open, the doors will not lock, even when the central door lock button is pressed.

WARNING

Doors

- The doors should always be fully closed and locked while the vehicle is in motion to prevent the doors from accidentally opening. Locked doors will also discourage potential intruders when the vehicle stops or slows down.
- Be careful when opening doors and watch out for vehicles, motorcycles, bicycles, or pedestrians approaching the vehicle in the path of the door. Opening a door when something is approaching can result in an accident and cause vehicle damage or serious injury.

⚠ CAUTION

Unlocked vehicles
Leaving your vehicle unlocked can lead to someone hiding in it while you are gone. This could result in theft or possible harm to you or others. Always remove the key, engage the parking brake, close all windows, and lock all doors when you leave your vehicle unattended.

⚠ WARNING

Unattended children, the elderly, or pets
An enclosed vehicle can become extremely hot, causing death or severe injury (such as heatstroke) to unattended children, the elderly, or pets who cannot escape. When left or trapped in a hot vehicle, make sure to stay hydrated and avoid sun exposure through the vehicle's windshield. Furthermore, children might operate features of the vehicle that could injure them, or they could be harmed by someone entering the vehicle. Never leave children or animals unattended in your vehicle.

Door lock/unlock features (if equipped)

The vehicle is equipped with door lock/unlock features for the safety and convenience of passengers.

Impact sensing door unlock system

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

Speed sensing door lock system

All doors will automatically lock when the vehicle speed exceeds 10 mph (15 km/h).
You can activate or deactivate the auto door lock/unlock features in the vehicle. Refer to "LCD display modes" on page 164.

Auto lock enable on shift

When this feature is displayed on the instrument cluster or infotainment system screen, all doors lock automatically when the vehicle is shifted out of P (Park) while running.

Auto unlock on shift to P

When this feature enabled on the infotainment system screen, all the doors unlock automatically when the vehicle is shifted back into P (Park) while it is ON.

Auto unlock vehicle off

When this feature is displayed on the instrument cluster or infotainment system screen, all doors unlock automatically when the vehicle is turned OFF.

Auto unlock vehicle off

When this feature is displayed on the instrument cluster or infotainment system screen, all doors unlock automatically when the vehicle is turned OFF.

Automatic door lock and unlock features

Your vehicle is equipped with features that will automatically lock or unlock your vehicle based on settings you select in the infotainment system screen.

1. To activate Approach Unlock system, select **Setup > Vehicle > Door > Activate Approach Unlock** in the infotainment system.
2. Approach the outside door handle of the driver's side.

The outside door handle gets automatically unlocked and pops out. The hazard warning lights blink twice, and a warning alarm will ring twice.

If you don't touch the door lock sensor of the door handle within about 2 seconds after the handle pops out, all the doors will be locked again, and the outside door handle will retract.

Electronic child safety lock system

If you push the electronic child safety lock switch and the indicator illuminates, rear passengers cannot open the rear door from inside the vehicle.



OLQ2A045009

To deactivate the electronic child safety lock, push the electronic child safety lock switch 1 more time, and then the indicator turns off.

Safe Exit Assist operates when the electronic child safety lock is activated and Safe Exit Assist is selected in the instrument cluster. However, Safe Exit Assist does not automatically activate the electronic child safety lock system.

The electronic child safety lock is always on when the ENGINE START/STOP button is in the ON and for approximately 3 minutes after the engine is turned OFF.

If your vehicle is equipped with the electronic child safety lock, the manually operated child-protector rear door locks are not included.

The rear passenger cannot open or close the rear window while the electronic child safety lock is activated. For more details, refer to "Windows" on page 92.

WARNING

If the electronic child safety lock malfunctions, a message is displayed, and a chime sounds.



OLQ2A005099

(1) **Child safety lock failure**

If this occurs, have the system checked by an authorized Kia dealer.

In case of an emergency

If the electrical power door lock switch is not operating (for example, if the car battery is dead), the only way to lock the door(s) is with the mechanical key from the outside key hole.
Doors without an outside key hole can be locked as follows:

1. Open the door.
2. Insert a key or screwdriver into the emergency door lock hole and turn the key to the lock position.



OLQ2A045010

3. Close the door securely.

TIP

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

Rear occupant alert (ROA) system

The ROA reduces the risk that a rear passenger will be inadvertently left in the vehicle.

1st alert

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

When the following conditions:

- After driving the vehicle, and
- A rear door was opened and closed either before or after driving

2nd alert

- After the 1st alert, the 2nd alert operates when any movement is detected in the vehicle after the driver's door is closed and all the doors are locked. The horn will sound for approximately 25 seconds. Also, a text message is sent to members of Kia Connect Services (if equipped). If the system continues to detect movement, the alert operates up to 8 times.
- Unlock the door with the smart key to stop the alert.
- The system detects movement in the vehicle for 5 minutes after the door is locked.

The 2nd alert is activated only after the 1st alert has activated.

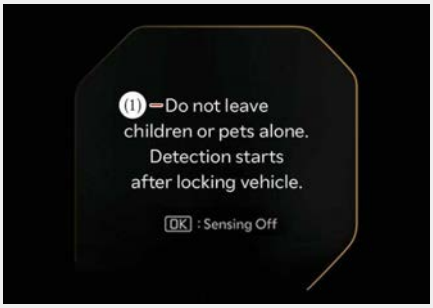
Operation

You can activate or deactivate the ROA on the infotainment system screen as follows:

1. Tap the **SETUP** button on the infotainment system.
2. Tap **Settings > Vehicle > Convenience > Rear Occupant Alert** on the infotainment system screen.

NOTE

- The second alert is available for vehicles equipped with the ROA sensor.
- The second alert is activated only after the prior activation of the first alert.
- If you do not want to use Rear occupant alert, press the OK button on the steering wheel when the first alert is displayed on the cluster. This action deactivates the second alert once only.
- If the vehicle is equipped with Remote Start, inside movement detection stops when the vehicle is started remotely.
- Members of Kia Connect Services can stop the alert through the app.



N_CT25Z099_E_N

(1) **Do not leave children or pets alone. Detection starts after locking vehicle.**

⚠ WARNING

Even if your vehicle is equipped with the system, always make sure to check the rear seats before you leave the vehicle. System may not operate when:

The alert may not operate if:

- Movement does not continue for a certain period of time or the movement is small.
- A child is not seated in a child restraint system.
- The detection may be weak if the signal is obstructed by the vehicle seat or Child Restraining System (CRS).
- The passenger is a child over 6 years.
- The passenger is covered with a fabric containing metallic substance such as a blanket.
- An object in the vehicle blocks the sensor.
- The sensor is contaminated by foreign material.
- An animal at the rear seat is not large enough to be detected by the sensor or there is hardly any movement.
- Attaching objects or modifying the interior ceiling, or the interior ceiling is deformed or damaged.
- There are electronic interference around the vehicle.
- Other environmental reasons that may affect the system.

⚠ CAUTION

Precautions

Make sure that all the windows are closed. If window is open, the warning may operate by the sensor detecting an unintended movement (e.g. clothes or bugs)

The system is intended to detect the presence of child sitting in the rear seat, but the warning may operate under the following conditions:

- When the system misidentify pets, or other lives as child.
- When the system detects motion in the driver's or front passenger seat (ex. seat recline or relaxion comfort seat)
- When the vehicle is impacted, pushed, or shaken after it has been locked (e.g., during a car wash or due to external noise or vibration)
- When metal or liquid objects are present inside the vehicle.
- When stacked boxes or other objects fall over inside the vehicle.

CAUTION

The door lock system may not work if the electrical system is compromised. Please train child passengers to open the car door manually before an emergency situation arises.

Declaration of conformity. The radio frequency components (ROA Radar Sensor) complies:

For United States

FCC ID : NSZVITA015
This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions:
(1) This device may not cause harmful interference, and
(2) this device must accept any interference received, including interference that may cause undesired operation.

CAUTION TO USERS
Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

OLQ2A045066

For Canada

Model : VitaSense1.5
IC : 3019A-VITA015
This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions:
(1) This device may not interference, and
(2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :
(1) l'appareil ne doit pas produire de brouillage, et
(2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement

OLQ2A045067

Digital Key 2 (if equipped)

Kia Digital Key 2 provides convenience to the driver, such as locking or unlocking the driver and passenger doors or the liftgate and turning on the vehicle with a smartphone or card key, without a smart key.

Digital Key 2 (smartphone)

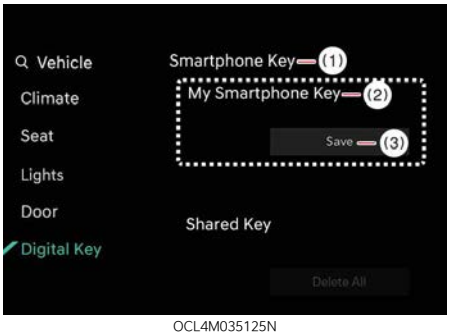
How to register Digital Key 2 (smartphone)

Kia Digital Key 2 can only be used on the smartphones that support this function, and the smartphone's Digital Key 2 function is provided by the smartphone manufacturer. Some smartphone functions may be incompatible with your vehicle.
While updating the digital key 2 controller, the smart key function may not work temporarily. In this case, it can be operated with the door lock/unlock button oft he smart key.

Smartphone set-up

In order to use Digital Key 2 (Smartphone) function, install the Kia Access App on your smartphone, register your information and subscribe the service.
For more details, access the web manual using the QR code in the infotainment system quick reference guide.

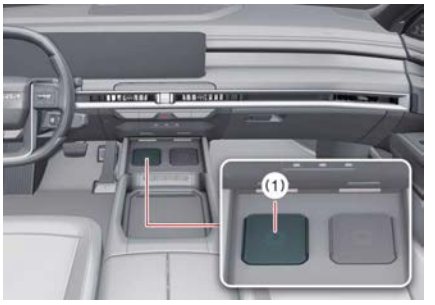
Smartphone Registration



OCL4M035125N

(1) **Smartphone Key**
(2) **My Smartphone Key**
(3) **Save**

1. Turn the vehicle on with the smart key, and make sure to keep the smart key inside the vehicle during digital key registration.
2. Shift to P (Park), press **Digital Key Settings > Register** on the Kia Access app on your smartphone, and register according to the messages on the app.
   - For smartphones without UWB support,place the NFC antenna of the smartphone on the center of the wireless charging pad (1).



OLQ2A045011

(1) charging pad

- As long as additional vehicle services support the device, you can register the digital key wirelessly.

3. Tap **Save** on the menu on the instrument cluster or on the infotainment system screen. The saving process will begin automatically.
4. When you save the digital key (smartphone), a message will appear on the instrument cluster or the infotainment system screen.
5. Remove the smartphone from the in-vehicle charging pad and complete the saving process by following the instructions on the smartphone screen.

TIP

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

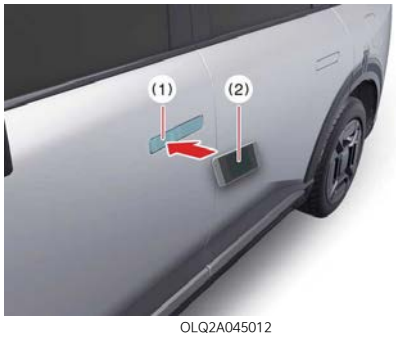
  When there is a digital key (smartphone) already saved in the vehicle, the Smartphone Key menu of the infotainment system will display Delete All and the My Smartphone Key screen will display Delete. If you want to save a digital key again, see "How to delete digital key (smartphone)" on page 67.
- Smartphone

  You cannot save the digital key again while the vehicle's digital key is saved in your smartphone. Save the digital key after deleting it from the Kia Access app.
- The Digital Key 2 saving process will cancel when:
  - You remove the smartphone from the in-vehicle charging pad
  - You change the infotainment system or instrument cluster screen
  - You turn off the vehicle
  - You shift the gear
  - There is no smart key (saving process will not begin)
- The in-vehicle authentication pad (wireless charging pad) may not work smoothly depending on the internal structure of the smartphone, so the digital key may not be registered. In this case, register the device by moving the smartphone to the left or right of the in-vehicle authentication pad (wireless charging pad).
- UWB (Ultra Wide Band) means ultra-wideband wireless communication technology. NFC (Near Field Communication) means short-range wireless communication.

How to use the Digital Key 2 (smartphone)

Smartphone touch control

You can lock and unlock the door without activating the Kia Access App by touching the smartphone to the door handle. You can start the vehicle by placing the smartphone on the charging pad. Make sure that the location of the smartphone's NFC antenna touches the door handle authentication pad.



OLQ2A045012

(1) Door handle authentication pad
(2) Different smartphones have their NFC antennas located in different places.

The Apple iPhone ® 's NFC antenna is located at the top of the back of the device, and the Apple Watch ® 's NFC antenna is located in the center of the screen. The NFC antenna is located in the place you tap to make contactless payments. If you are uncertain about the location of the NFC antenna on your phone, contact your smartphone manufacturer for more details.

Locking and unlocking the doors

- If the driver touches the smartphone antenna to the driver's or passenger's door handle authentication pad for more than 2 seconds, the door will lock or unlock.
- After you unlock the doors, they will automatically relock after 30 seconds unless you open a door.
- If the smartphone digital key does not operate, move the smartphone more than 4 inches (10 cm) from the door handle authentication pad and try it again.

UWB (Ultra Wide Band) means ultra-wideband wireless communication technology. NFC (Near Field Communication) means short-range wireless communication.

For smartphones without UWB support:

To lock or unlock the doors with a registered smartphone, touch the NFC antenna on the smartphone on the authentication pad of the driver's or passenger's outside door handle for about 2 seconds.

For smartphones with UWB support:

- To lock or unlock the doors, carry your smartphone and touch the door handle to the lock/unlock sensor (curved area) on the outside door handle.
- If Approach Unlock is enabled, the doors automatically unlock when you approach the front door handle with your smartphone in your possession.

TIP

- When you carry a smartphone supported by UWB and stay near the vehicle for a few minutes, the door may not unlock automatically.
- If the smartphone is in a back pocket or bag, the signal may be blocked, which could limit the Bluetooth connection and cause operation delay when you lock/unlock the doors or start the vehicle.
- If you apply a tinting film containing metal components, the digital key may not function properly.

TIP

The door will not unlock and a beep will sound when you use the Digital Key 2 if any of the following occur:

- The smart key is in the vehicle.
- The vehicle is in the ACC or ON position.
- You attempt to lock the door while more than 1 door, the hood, or the liftgate is open.
- If you apply a tinting film containing metal substances to the digital key, it may not function properly.

Starting the vehicle

After placing your registered smartphone on the charging pad, engage the brake pedal and press the ENGINE START/STOP button.

Once you start the vehicle, you can remove the smartphone from the pad.

For more details, refer to "ENGINE START/STOP button" on page 364.

For smartphones without UWB support:

- To start the vehicle, place the smartphone's NFC antenna on the center of the charging pad, press the brake pedal, then press the ENGINE START/STOP button.
- Once you start the vehicle, you can remove the smartphone from the charging pad.
- Some smartphones may not have smooth NFC communication due to their internal structure. In such cases, move the smartphone to the right or left of the charging pad.

For smartphones with UWB support:

- Carry the smartphone inside the vehicle, engage the brake pedal, and then press the ENGINE START/STOP button to start the vehicle.
- To start the vehicle remotely, use an app provided by the smartphone manufacturer to lock the vehicle using the door lock button, and then press the remote start button within 4 seconds. The vehicle will start, and the hazard warning lights will flash.
- To turn the vehicle OFF, press the remote start button again.

WARNING

The vehicle can start when the registered smartphone is placed on the in-vehicle authentication pad (wireless charging pad). Do not leave children or people who are unaware of the system unsupervised, as this can result in serious injury or death. To prevent vehicle theft, always have the registered smartphone with you when you leave the vehicle.

TIP

The Digital Key 2 for a shared user may have an extended operation time the first time you use it.

Approach the authentication pad located in the outside door handle with your Digital Key 2 (smartphone) until the vehicle door lock/unlock function operates.

When the inner authentication pad is used for the first time, the function may not operate.

Operating the liftgate

For smartphones with UWB support:

- When the vehicle is locked, to open the liftgate, press the liftgate open button, carrying a smartphone registered.
- When Smart liftgate is selected, the liftgate automatically opens when you approach the detecting area behind the liftgate for more than 3 seconds, carrying a smartphone with Digital Key 2 registered.

WARNING

- Always have the registered smartphone with you when you close the liftgate. The doors may not unlock if you close the liftgate when the doors are locked or if you close the liftgate using the liftgate button on the smartphone.
- The vehicle can be started when the registered smartphone is placed on the in-vehicle authentication pad (wireless charging pad). Therefore, do not leave unsupervised children or people who are not aware of the system since it can result in serious injury or death. In addition, always keep the registered smartphone with you to prevent vehicle theft when leaving the vehicle.
- If a tinting film containing metal components is applied, it may cause poor Bluetooth connectivity.
- If the smartphone is in a back pocket or bag, the signal may be blocked, which could limit the Bluetooth connection and cause delays when locking/unlocking doors or starting the vehicle.

For smartphones with UWB support, Digital Key 2 is only available when the vehicle and the smartphone are connected through Bluetooth.

- The distance at which you can get a Bluetooth connection may vary depending on the surroundings.
- If a tinting film containing metal components is applied, it may cause poor Bluetooth connectivity.
- If the smartphone is in a back pocket or bag, the signal may be blocked,which could limit the Bluetooth connection and cause delays when locking/unlocking doors or starting the vehicle.

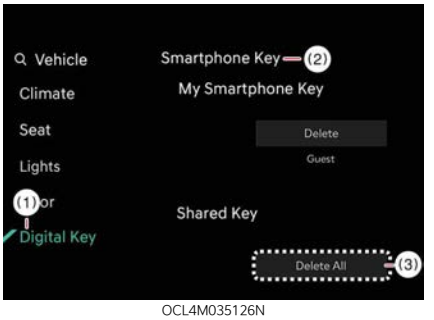
For smartphones with UWB support, Digital Key 2 is only available for a limited time to optimize the vehicle and smartphone batteries.

You can check the connection between the vehicle and smartphone in the smartphone's settings or in an app provided by the smartphone manufacturer.

How to delete digital key (smartphone)

Turn the vehicle on with the smart key and make sure to keep the smart key inside the vehicle during the digital key (smartphone) deletion process.

1. To delete all digital key:

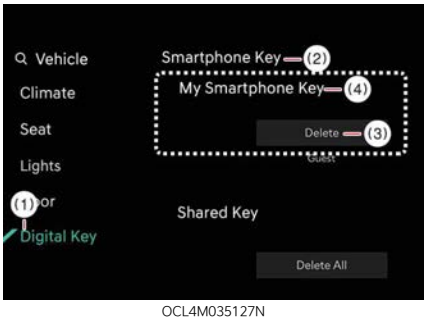


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(1) **Digital Key**
(2) **Smartphone key**
(3) **Delete all**

- With the vehicle on, tap **Setup** > **Digital key** > **Smartphone key** > **Delete all** on the infotainment system.
  - The owner's and shared user's keys will be deleted.
  - If there is no registered key, you cannot select the menu.

2. To delete MY Smartphone Key:



OCL4M035127N

(1) **Digital key**
(2) **Smartphone key**
(3) **Delete**
(4) **My Smartphone key**

If you change smartphones, you can only register the new smartphone after deleting the previous Digital Key 2 (smartphone).

TIP

- If you delete the digital key (smartphone) on the vehicle, the digital key saved in the smartphone is also deleted.
- If you delete the digital key (smartphone) on the smartphone, the digital key saved in the vehicle is also deleted.
- The infotainment system cannot delete a shared user's key.
- The digital key will not be deleted if you uninstall the Kia Access app on your smartphone.

- You can activate or deactivate the digital key within the Kia Access app provided by your smartphone manufacturer.

TIP

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

3. To delete the shared keys

   Select **Setup > Vehicle > Digital Keys > Smartphone key > Shared Keys > [Group] > Delete** on the infotainment system.

   Those digital keys other than the **My Smartphone Key** (smartphone) are classified by **[Group]** and displayed as **Shared Key**.

   If the account logged in the smartphone is the same, it is displayed as the same **[Group]**.

   You can delete the **Shared Key** by the unit of **[Group]**.

Digital key 2 (card key)

How to register Digital Key 2 (card key)

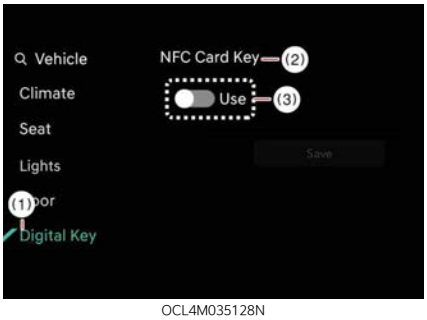
To use the card key as a Digital Key 2, register the card key in your vehicle system according to the following procedures:

1. Enter the vehicle with 2 smart keys.

   1) Wireless charging pad

2. Check if the **Use** menu is activated.

   With the vehicle on, tap **Setup > Vehicle > Digital keys > NFC card key > Use** on the infotainment system.



OCL4M035128N

(1) **Digital key**
(2) **NFC card key**
(3) **Use**

3. With the vehicle on, place the card key on the wireless charging pad (1), and tap **Save** on the infotainment system screen. The saving process will begin automatically.



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(1) Charging pad

When the digital key (card key) is saved, a message appears on the infotainment system screen.

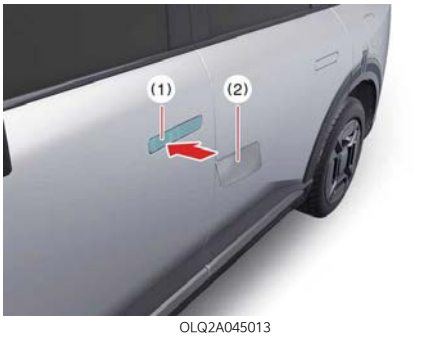
TIP

- The infotainment system may change after software updates. For more information, refer to the user's manual provided in the infotainment system and the quick reference guide.
- When there is a digital key (card key) already saved in the vehicle, the **Save** menu is disabled. If you want to save a digital key again, refer to "How to delete digital key (smartphone)" on page 67 and follow the procedure for deleting an existing digital key first before saving a new digital key.
- To register the digital key (card key), the 2 smart keys must be in the vehicle.
- The registered digital key (card key) cannot be used for another vehicle.

How to use the Digital Key 2 (card key)

Card key touch control

The driver can lock and unlock the door by touching the card key to the door handle. The driver can start the vehicle by placing the card key on the charging pad.



OLQ2A045013

(1) **Door handle authentication pad**

(2) **Card key NFC antenna**

Locking and unlocking the doors

- If the driver touches the NFC antenna of the registered card key 2 to the driver's or passenger's door handle authentication pad (1) for more than 2 seconds, the door will lock or unlock.
- After locking the door, make sure to check its locked state. Unlocked doors will automatically relock after 30 seconds unless you open a door.
- The lock works only if the center of the NFC card key touches the NFC authentication area of the vehicle door handle.

TIP

When you touch a smartphone NFC antenna to the center of the outside door handle authentication pad, the doors will not lock with a beep sound under the following conditions:

- The smart key is in the vehicle
- The vehicle is in the ACC or ON position
- 1 or more doors, the hood, or the liftgate are open

Starting the vehicle

After placing your registered card key 2 on the charging pad, engage the brake pedal and press the ENGINE START/STOP button to start the vehicle.

- Once the vehicle has started, you can remove the card key from the pad.

For more details, refer to "ENGINE START/STOP button" on page 364.

WARNING

The vehicle can start when the registered card key is placed on the charging pad. Do not leave children or people who are unaware of the system unsupervised, as this can result in serious injury or death. In addition, to prevent vehicle theft, always have the registered card key with you when you leave the vehicle.

NOTE

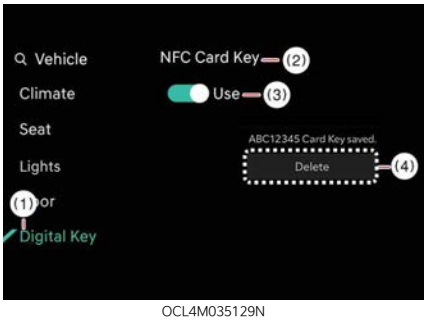
- The digital key (card key) may not work under the following conditions:
  - When the card key is not touching the center of the door handle authentication pad or the charging pad correctly.
  - If the card key overlaps NFC-enabled cards such as a credit card or smartphone.
  - If the card key does not work, move it approximately 4 inches (10 cm) away from the authentication pad, then touch it to the pad again.
- The card key can be damaged by impact. If the card key is damaged, replace it with a new one, and and register it again.
- A damaged or lost card key is not covered by your warranty. The replacement cost is the owner's responsibility.
- Prolonged exposure to high temperature may cause the card key to malfunction. Be careful not to expose the key to direct sunlight or high temperatures.
- The card key may malfunction if you leave it on the charging pad while driving. After starting the vehicle, make sure to remove the card key from the in-vehicle charging pad.

- The card key may malfunction if you place it between the charging pad and the smartphone while the smartphone is wirelessly charging (for example, if you charge the smartphone while the card key is attached to the back of the smartphone case).

How to delete Digital Key 2 (card key)

1. Turn the vehicle ON with the smart key. Make sure to keep the smart key inside the vehicle during the card key deletion process.
2. With the vehicle ON, place the card key on the in-vehicle authentication pad (wireless charging pad). With the vehicle ON, tap **Setup > Vehicle > Digital key > NFC card key > Delete** on the infotainment system.

   The **Delete** menu will be disabled if there is no card key saved.



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(1) **Digital key**
(2) **NFC card key**
(3) **USE**
(4) **Delete**

When you delete the card key, a message will appear on the infotainment screen or instrument cluster.

> **TIP**
> The infotainment system may change after software updates. For more information, refer to the user's manual provided in the infotainment system.

Personalized profile and vehicle settings

When you link the smartphone registered in the vehicle with a user profile, the vehicle will automatically operate (for example, the door will lock and unlock with the digital key) according to the linked user profile settings. User profile linking and personalization are available for a total of 2 drivers.
The infotainment system may change after software updates. For more information, refer to the user's manual provided in the infotainment system and the quick reference guide.

Linking and unlinking profile

How to link user profile

1. Tap **Setup > User profile > Profile setting > Link digital key (smartphone)** on the infotainment system settings menu.
2. If you select **Link**, the registered phone number's digital key and the user profile will link.

Select **Link** according to the instructions.

3. If you tap **Link**, the registered phone number's digital key will link to the user profile. Tap **Link** according to the instructions on the infotainment system screen.
4. When the process is complete, the message **Digital Key Link Complete** will appear on the infotainment system screen.
5. Tap the **Link** button, and select the smartphone you want to link from the smartphone list displayed on the screen. Link it according to the instructions on the infotainment system screen.

When the process is complete, the message **Digital Key Link Complete** appears on the infotainment system screen.

How to unlink user profile

1. Tap **Setup > User profile > Profile setting > Link digital key (smartphone)** on the infotainment system. Unlink the smartphone in the user profile settings. You can only unlink the smartphone when the user profile is linked.
2. When unlinking is complete, the message **Digital key is unlinked** will appear on the infotainment system screen.

TIP

- The user profile cannot be linked to multiple drivers (such as Driver 1 and Driver 2) that are connected to a single smartphone. Personalization will operate with the most recently linked user profile and automatically cancel the previously linked user profile.
- The user profile can be linked when the digital key is registered on the smartphone and the vehicle. The smartphone cannot be linked with another vehicle's digital key.
- The NFC card key cannot be linked with a personalized profile.
- If you remove the smartphone from the charging pad before the user profile finishes linking, the linking process will not be completed.
- Once the user profile linked to the digital key in the smartphone is deleted, reregister and personalize the digital key 2 by linking the user profile again.
- The infotainment system may change after software updates. For more information, refer to the user's manual provided in the infotainment system and the quick reference guide.

Vehicle personalization operation

The personalization function linked to Digital Key 2 works under the following conditions:

- Touch the driver's door handle with the smartphone linked to your profile to lock or unlock the doors. (Personalization does not operate when you lock or unlock the front passenger door.)
- You can operate the personalization function using the digital key after you link the digital key in the infotainment system profile menu.
- The personalization function works only when the vehicle is OFF or when the vehicle is started remotely. If the vehicle is not started remotely, the personalization function does not work with the digital key.

TIP

The user profile operates according to the door lock/unlock system as follows:

Item	Personalization operation
Initial value	Guest
Profile linked smartphone key	Linked profile
Profile unlinked smartphone key	Recently activated profile
NFC card key	
Smart key	

Vehicle personalization with Digital Key 2

The personalization function in the vehicle is available as follows:

System	Personalization Item	
User Settings menu	Lamp	Blink number of 1-touch signal lamps
	Cluster	Information display on the cluster, Voice volume, Welcome sound
	Seat	Seat position
		Smart heating wire ventilation ON/OFF
	Door	Automatic door lock/unlock
	Smartphone wireless charging	Wireless charging ON/OFF
	Air conditioning	Setting up temperature unit, Block air inflow/ Automatic ventilation, Window defroster ON/OFF
Infotainment Settings menu	Navigation	Preferred navigation system volume
		Recent destination
	User preset	My menu list settings, Radio preset
	Phone connectivity	Bluetooth preferential connection
		CarPlay/Android Auto/MirrorLink ON/OFF
Air conditioning	Operating condition	Latest operation setup of the following functions: Temperature (AUTO), Air flow direction, Air volume, Air conditioner, Air intake control, SYNC, Front windshield defroster.

For more information on personalization, refer to the infotainment system manual.

TIP

If you leave the digital key in the vehicle after locking or unlocking the doors or starting the vehicle with the smart key, you can lock the doors with the central door lock. Always have the digital key with you.

Digital Key 2 maintenance for a used vehicle

Purchasing a used vehicle

If any of the digital key devices (such as a smartphone key or card key, if equipped) are registered in the vehicle, the message **Digital key(s) active** will appear on the instrument cluster once when you turn on the vehicle after unlocking the door.
When purchasing a used car, be sure to check the message and delete the smartphone key and card key (if equipped) registered by the previous user. Notify an authorized Kia dealer when you purchase a used vehicle. Check if the digital key (card key) that came with the used vehicle operates properly. If it does not work properly, delete it and register the smartphone key. Then reregister the card key.

Digital Key 2 maintenance

If you need to have your Digital Key 2 system repaired or replaced, the registered digital key (smartphone or card key, if equipped) may be deleted depending on the type of maintenance.

Limitations of the system

- Digital Key 2 may not work if any of the following occurs:
  - The smartphone battery or vehicle battery is discharged.
  - You turn off the NFC or Bluetooth in the smartphone settings.
  - You use a metal or thick smartphone case, or a credit card overlaps the back of your smartphone.
  - You use the card key (if equipped) with other cards or in a wallet or card holder.
  - There is electronic interference by other vehicles or objects.
  - There may be a communication error with the Digital Key 2 NFC function if a metallic cover or communication device is attached to the smartphone. If there is a Digital Key 2 malfunction, remove the cover attached to the smartphone and try again.
- The smartphone may not control the vehicle if any of the following occurs:
  - Basic and necessary functions of the smartphone are operating (general call, urgent call, audio, or contactless payment).
  - You are using wireless earphones (general call, urgent call, or audio).
  - Digital Key 2 app function is limited due to the smartphone default settings or app launch priority policy per the manufacturer.
  - If you have a registered UWB-supported smartphone and stay within the vehicle's Bluetooth connection range for an extended period, low voltage battery drain may occur. If your smartphone or app supports the "Automatic Access" feature, please disable it before use.

This device complies with Part 15 of the FCC rules.

Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. this device must accept any interference received, including interference that may cause undesired operation.

TIP

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. If the digital key 2 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.

Liftgate

WARNING

Exhaust fumes

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

If you must drive with the liftgate open, keep the air vents and all windows open so that additional fresh air can enter the vehicle.

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.

Opening the liftgate



OLQ2A045015



OLQ2A045014

- If the liftgate is unlocked, you can open it by pressing the handle and pulling it up.
- The liftgate locks or unlocks when you lock or unlock all the doors with the smart key or the central door lock switch.
- If you press the liftgate unlock button on the smart key for approximately 1 second, only the liftgate unlocks.
- Once you open and close the liftgate, it locks automatically. All doors must be locked.

TIP

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

WARNING

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

NOTE

Liftgate gas lifters
Make sure to close the liftgate before driving your vehicle. Possible damage to the liftgate gas lifters and attached hardware may occur if you do not close the liftgate prior to driving.

Closing the liftgate



OLQ2A045016

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

WARNING

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

WARNING

Exhaust fumes
You should always keep the liftgate lid completely closed while the vehicle is in motion. If you leave the liftgate open or ajar, poisonous exhaust gases may enter the car and serious illness or death may result.

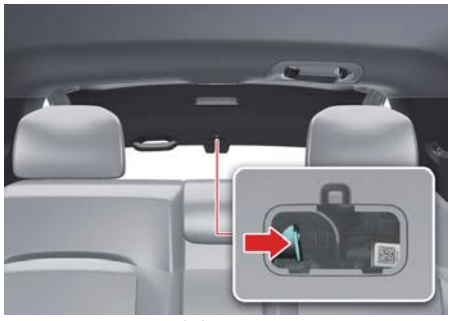
NOTE

To avoid damage to the liftgate's latch, make sure nothing is near the latch and striker while closing the liftgate.

Emergency liftgate safety release



OLQ2A045017



OLQ2A045018

To unlock and open the liftgate manually from inside the luggage compartment, perform the following procedure:

1. Remove the cover at the bottom of the liftgate.
2. Slide the latch in the direction of the arrow to unlock the liftgate.
3. Push the liftgate to open.

WARNING

- In emergencies, be fully aware of the location of the emergency liftgate safety release latch in the vehicle and how to open the liftgate if you are accidentally locked in the luggage compartment.
- No one, including animals, 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 an accident.
- Use the release latch for emergencies only. Use extreme caution, especially while the vehicle is in motion.

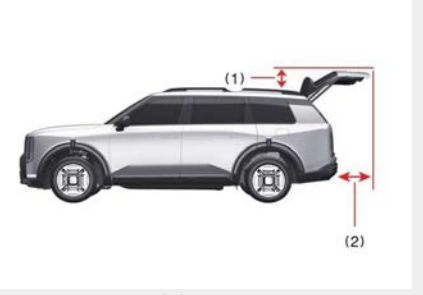
Power liftgate (if equipped)

Power liftgate operating conditions

The power liftgate operates when the gear is in P (Park) and the vehicle is running. However, the power liftgate will operate regardless of gear position when the vehicle is OFF. The liftgate can only be opened when vehicle speed is below 1.8 mph (3 km/h).
For safety purposes, make sure the gear is in P (Park) before attempting to open or close the liftgate.

WARNING

- Never leave children or animals unattended in your vehicle. Children may operate the power liftgate. Doing so can result in injury to themselves or others and can damage the vehicle.



OLQ2A045019

(1) 20 inches (50 cm)
(2) 27 inches (70 cm)

- Make sure that there are no people or objects in the path of the power liftgate or smart liftgate prior to use. Contact with the liftgate may result in serious injury, damage to the vehicle, or damage to surrounding objects (for example: walls, ceilings, vehicles, and so on).
- In the following situations, the liftgate may not open or may close unintentionally, injuring people:
  - There is accumulated snow on the liftgate.
  - There is a heavy object on the liftgate (such as a bicycle carrier, ladder, and so on).
- Do not open the liftgate before removing snow or heavy objects from the liftgate.

NOTE

- Do not close or open the liftgate manually. This may cause damage to the power liftgate. If you must close or open the liftgate manually when the battery is discharged or disconnected, do not apply excessive force.
- When the vehicle is not running, do not operate the power liftgate more than 10 times continuously. To prevent battery discharge, only use the power liftgate repeatedly while the vehicle is running.
- Do not leave the power liftgate open for a long period of time. This may drain the battery.
- Do not apply excessive force when operating the power liftgate. Doing so could damage the vehicle.

- Do not grab or hold on to the liftgate support struts at any time, as this could damage them. Deformation of the liftgate support struts may damage the vehicle and lead to personal injury.



OLQ2A045020

- Do not modify or repair any part of the power liftgate by yourself. This must be done by an authorized Kia dealer.
- Do not operate the power liftgate under the following conditions, as the power liftgate may not operate properly:
  - When lifting 1 side of the vehicle to inspect it or change a tire.
  - When parking on an uneven road, such as a slope.
- Before using an automatic car wash, close the liftgate completely and lock all doors and the liftgate using the central door lock button.
- Do not spray high pressure water directly on the outside power liftgate open/close button. The liftgate may open unintentionally.

NOTE

- If the liftgate is not fully closed and the vehicle speed is at or above 1.8 mph (3 km/h), a warning will sound 10 times. Immediately park the vehicle in a safe place, close the liftgate, and check that the liftgate open warning on the instrument cluster is turned off.
- In cold and wet climates, the outside power liftgate open/close button may not work properly due to freezing conditions. If this occurs, remove ice from the outside power liftgate open/close button before using it, or use the power liftgate open/close button on the smart key or the instrument panel.
- Operating the power liftgate more than 5 times continuously could cause damage to the operating motor. If this occurs, the power liftgate will not operate to prevent the motor from overheating. If you press any of the power liftgate buttons to try to open the liftgate, the chime will sound 3 times, but the liftgate will remain closed. Allow the power liftgate system to cool for about 1 minute before operating the system again.

Operating the power liftgate

Power liftgate open/close button (smart key, instrument panel) (if equipped)



OLQ2A045055



OLQ2A045021

Press the power liftgate open/close button for 1 second. The liftgate opens or closes with a warning sound. While the liftgate is opening or closing, press the button to stop liftgate operation.
If the smart key is not within operating range (approximately 10 m) from the vehicle, liftgate operation will stop with a warning sound for 5 seconds.

Power liftgate open/close button (outside the power liftgate)



OLQ2A045014



OLQ2A045015

When the liftgate is closed, press the power liftgate open/close button to open it.
If the vehicle is locked, press the power liftgate open/close button with the smart key in your possession.
If the liftgate is unlocked, it will open or close with a warning sound when you press the power liftgate open/close button without carrying the smart key.

Power liftgate open/close button (inside the power liftgate)



OLQ2A045022

Press the power liftgate open/close button. The liftgate opens or closes automatically.

Automatic reverse

During power liftgate operation, if the power liftgate senses any obstacle, the liftgate will either stop or fully open. The automatic reverse feature may not operate properly, or it may operate unexpectedly under the following circumstances:

- The automatic reverse feature may not detect resistance if it is below a certain level, or if the liftgate is almost fully closed near the latched position.
- The automatic reverse feature may operate if you close the liftgate too strongly.

WARNING

Never intentionally place any object or part of your body in the path of the power liftgate to make sure the automatic reverse feature operates. This may result in serious injury or damage to the vehicle.

TIP

The power liftgate may stop operating if the automatic reverse feature operates more than 2 times while you attempt to open or close the liftgate. If this occurs, carefully open or close the liftgate manually, and then after 30 seconds, try to operate the power liftgate automatically again.

NOTE

Liftgate gas lifters

Make sure to close the liftgate before driving your vehicle. Possible damage to the liftgate gas lifters and attached hardware may occur if you do not close the liftgate prior to driving.

Setting the power liftgate

To use each feature, you must select the opening speed or opening height from the settings menu. Deselect the settings when you do not want to use the feature.

Power liftgate opening speed

To adjust the power liftgate speed, tap **Setup > Vehicle > Door > Power liftgate opening speed > Normal/Fast** in the infotainment system. (The default setting is **Fast**.)

Power liftgate opening height

To adjust the power liftgate opening height, tap **Setup > Vehicle > Door > Power liftgate opening height > Full Open/Level 3/Level 2/Level 1/User height setting** in the infotainment system.
See additional information in the supplied infotainment manual.

User height setting

1. Position the liftgate manually to your preferred height.
2. Press the power liftgate open/close button located inside the liftgate for more than 3 seconds.

   If you select **User Height Setting** for the power liftgate opening height, the power liftgate will automatically open to the height you manually set.

> **TIP**
>
> - If you have not manually set the power liftgate opening height, the power liftgate will fully open when you select **User Height Setting** from the infotainment system.
> - If you select 1 of the height settings (**Full Open** / **Level 3** / **Level 2** / **Level 1**) from the settings menu in the infotainment system, then select **User Height Setting**, the liftgate will open to the height you manually set.
> - The power liftgate opening speed and opening height settings change according to the linked user profile. If you change the user profile, the power liftgate opening speed and opening height settings change accordingly.

Resetting the power liftgate

In some circumstances, you may need to reset the power liftgate operation, such as:
- When the 12V battery is recharged
- When the 12V battery is reinstalled after removal or replacement
- When the related fuse is reinstalled after removal or replacement



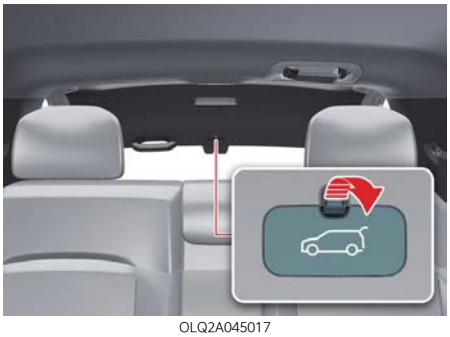
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To reset the power liftgate:

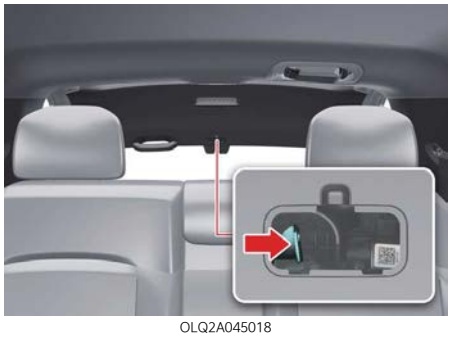
1. With the vehicle off or running, put the gear in P (Park).
2. Press the power liftgate open/close inner and outer buttons simultaneously until a chime sounds.
3. Slowly close the liftgate manually.
4. Press the power liftgate open/close outer button. The power liftgate will open with a chime sound.
   Wait until the liftgate fully opens to complete the reset. If the liftgate stops before it is fully open, the reset cannot be completed.

> **TIP**
>
> If the power liftgate does not operate properly after you perform the preceding procedure, have the system inspected by an authorized Kia dealer.

Emergency liftgate safety release



OLQ2A045017



OLQ2A045018

To unlock and open the liftgate manually from inside the luggage compartment, perform the following procedure:

1. Remove the cover at the bottom of the liftgate.
2. Slide the latch in the direction of the arrow to unlock the liftgate.
3. Push the liftgate to open.

WARNING

- In emergencies, be fully aware of the location of the emergency liftgate safety release latch in the vehicle and how to open the liftgate if you are accidentally locked in the luggage compartment.
- No one, including animals, 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 an accident.
- Use the release latch for emergencies only. Use extreme caution, especially while the vehicle is in motion.

Power liftgate automatic close

Using the power liftgate automatic close feature



OLQ2A045024

1. When the liftgate is open, approach the detecting area (20-40 in [50-100 cm] behind the liftgate) with the smart key in your possession. Wait approximately 3 seconds until the chime sounds.
2. With the smart key in your possession, move away from the vehicle. The liftgate closes automatically with a chime sound.

Setting the power liftgate automatic close feature

Tap **Setup > Vehicle > Door > Power liftgate** to turn on Power Liftgate Auto Close, and deselect to turn off the feature in the infotainment system.
See additional information in the supplied infotainment manual.



OLQ2A045025

Press the automatic close release button while the liftgate is open. The power liftgate automatic close feature will turn off.

Smart liftgate with auto open (if equipped)

On a vehicle equipped with a smart key, you can open the liftgate using the Smart Liftgate with AUTO Open system.



OLQ2A045026

How to use the smart liftgate with auto open

You can open the liftgate with no-touch activation under the following circumstances:

- After 15 seconds, when all doors are closed and locked
- When you are positioned in the detecting area for more than 3 seconds

TIP

The smart liftgate with AUTO open does not operate when:

- The smart key is detected within 15 seconds after the doors are closed and locked, and is continuously detected afterward.
- The smart key is detected within 15 seconds after the doors are closed and locked, and is 60 in (1.5 m) from the front door handles (for vehicles equipped with Welcome Light).
- A door is not locked or closed.
- The smart key is inside the vehicle.

1. **Setting**
   To activate the smart liftgate with AUTO open, go to **Setup > Vehicle > Door > Smart liftgate** in the infotainment system.
2. **Detect and alert**



OLQ2A045027

If you are positioned in the detecting area (20-40 in [50-100 cm] behind the vehicle) while carrying a smart key, the hazard warning lights will blink and the chime will sound to alert you that the smart key has been detected. The liftgate will open.

TIP

Do not approach the detecting area if you do not want the liftgate to open. If you have unintentionally entered the detecting area and the hazard lights and chime start to operate, leave the detecting area with the smart key in your possession. The liftgate will stay closed.

3. **Automatic opening**



OLQ2A045028

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

WARNING

- Make sure you close the liftgate before driving your vehicle.
- Make sure there are no people or objects around the liftgate before opening or closing it.
- Make sure objects in the rear cargo area do not come out when opening the liftgate on a slope. This may cause serious injury.

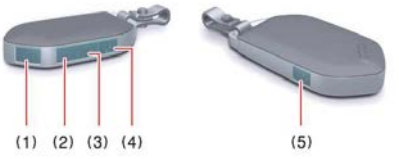
- Make sure to deactivate the smart liftgate with AUTO open when washing your vehicle. Otherwise, the liftgate may open accidentally.
- Keep the key out of reach of children. Children may accidentally open the smart liftgate with AUTO open while playing around the rear area of the vehicle.

NOTE

Liftgate gas lifters

Make sure to close the liftgate before driving your vehicle. Possible damage to the liftgate gas lifters and attached hardware may occur if you do not close the liftgate prior to driving.

How to deactivate the smart liftgate with auto open function using the smart key



(1) Door lock
(2) Door unlock
(3) Liftgate open
(4) Panic alarm
(5) Remote start

OMQ4A035064

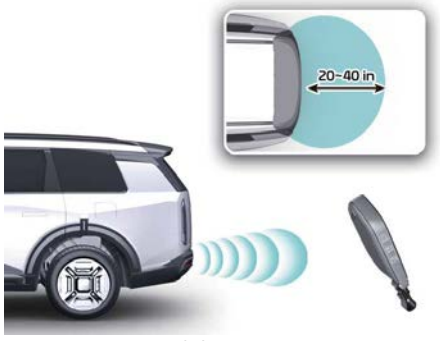
If you press any button on the smart key during the Detect and Alert stage, the smart liftgate with AUTO open function will deactivate.

Make sure you know how to deactivate the smart liftgate with AUTO open function for emergency situations.

TIP

- If you press the door unlock button (2), the smart liftgate with AUTO open function will deactivate temporarily. But if you do not open any door for 30 seconds, the smart liftgate with AUTO open function will activate again.
- If you press the liftgate open button (3) for more than 1 second, the liftgate will open.
- If you press the door lock button (1) or liftgate open button (3) when the smart liftgate with AUTO open function is not in the Detect and Alert stage, the smart liftgate with AUTO open function will not deactivate.
- If you have deactivated the smart liftgate with AUTO open function by pressing the button on the smart key and opening a door, you can reactivate the Smart Liftgate with Auto Open function by closing and locking all doors.

Detection area



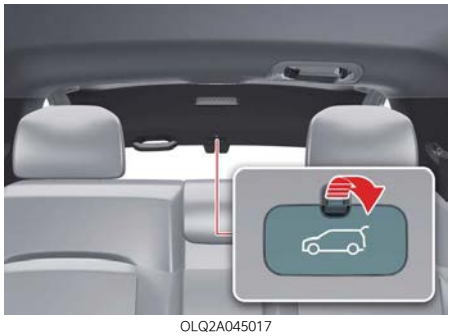
OLQ2A045029

- The smart liftgate with AUTO open function operates with a welcome alert if the smart key is detected within 20~40 in (50~100 cm) of the liftgate.
- The alert stops at once if the smart key is positioned outside the detecting area during the Detect and Alert stage.

TIP

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

Emergency liftgate safety release



OLQ2A045017



OLQ2A045018

To unlock and open the liftgate manually from inside the luggage compartment, perform the fol-

lowing procedure:

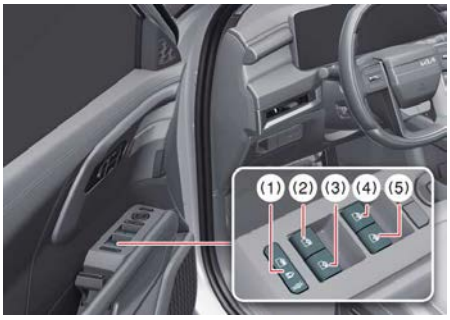
1. Remove the cover at the bottom of the liftgate.
2. Slide the latch in the direction of the arrow to unlock the liftgate.
3. Push the liftgate to open.

WARNING

- In emergencies, be fully aware of the location of the emergency liftgate safety release latch in the vehicle and how to open the liftgate if you are accidentally locked in the luggage compartment.
- No one, including animals, 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 an accident.
- Use the release latch for emergencies only. Use extreme caution, especially while the vehicle is in motion.

Windows

The doors of this vehicle are equipped with power windows that you can operate with a switch.



OLQ2A045030

(1) Power window lock switch
(2) Rear door (left) power window switch
(3) Rear door (right) power window switch
(4) Driver's door power window switch
(5) Front passenger's door power window switch

TIP

In cold and wet climates, power windows may not work properly due to freezing conditions.

The ENGINE START/STOP button must be in the ON position for the power windows to operate. Each door has a power window switch that controls that door's window. The driver has a power window lock button, which can block the operation of rear passenger windows. You can operate the power windows for approximately 3 minutes after turning the ENGINE START/STOP button to the ACC position. If you open the front doors, you cannot operate the power windows, even within the 3-minute period.
If the window cannot close because objects are blocking it, remove the objects and close the window.

TIP

While driving with the rear windows down or with the sunroof (if equipped) in an open or partially open position, you may hear a wind buffeting (or pulsation) noise in your vehicle. This noise is normal and can be reduced or eliminated by taking the following actions:

- If the noise occurs with either one or both of the rear windows down, partially lower both front windows approximately 1 inch (2.5 cm).
- If the noise occurs with the sunroof open, slightly reduce the size of the sunroof opening.

TIP

Do not install any accessories in the vehicle that extend into the open window area. Such objects will impact the proper function of the Automatic reversal Jam Protection feature.

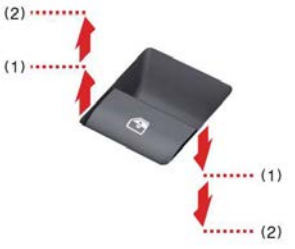
TIP

If you press the 1-touch window button to make a small adjustment, the glass will go down to a specific location for your convenience.

Window opening and closing

You can open and close the windows using the power window switch.

Auto up/down window



OLQ2A045032

To open or close a window, press down or pull up the front portion of the corresponding switch to the first detent position (1).

Momentarily pressing down or pulling up the power window switch to the second position (2) completely lowers or raises the window, even when you release the switch. To stop the window at the desired position while it is moving, pull up or press down and release the switch.

To reset the power windows

If the power window does not operate normally, reset the automatic power window system as follows:

1. Move the ENGINE START/STOP button to the ON position.
2. Close the window and continue pulling up the power window switch for at least 1 second after the window is completely closed.

Automatic reversal



OLQ2A045033

If an object or part of the body blocks the upward movement of the window, the window will detect the resistance and stop moving up. The window will then move down approximately 11.8 inches (30 cm) to allow you to clear the object.

If the window detects resistance while you pull up the power window switch continuously, the window will stop moving up, then move down approximately 1 inch (2.5 cm).
If you pull up the power window switch continuously within 5 seconds after the automatic window reversal feature operates, the automatic window reversal feature will not operate again.

TIP

The automatic reverse feature for the window is only active when you use the "auto up" feature by fully pulling up the switch. The automatic reverse feature will not operate if you raise the window using the halfway position on the power window switch.

NOTE

To avoid injuries or vehicle damage, always check for obstructions before raising any window. If an object less than 0.16 inch (4 mm) in diameter is caught between the window glass and the upper window channel, the automatic reverse window may not detect the resistance and will not stop and reverse direction.

WARNING

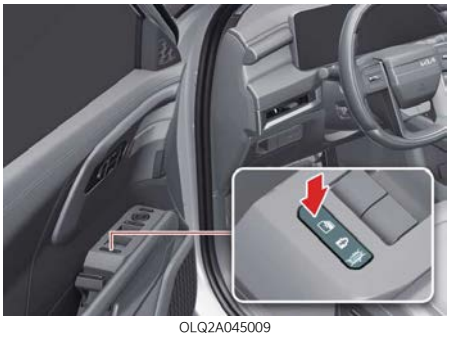
The automatic reverse feature doesn't activate while you reset the power window system. Make sure body parts or other objects are safely out of the way before closing the windows to avoid injuries.

NOTE

Do not install any accessories in the vehicle that extend into the open window area. Such objects could prevent the automatic reverse feature from functioning.

Power window lock button

The driver can disable the power window switches on the rear passengers' doors by pressing the power window lock button to the lock position (pressed).



OLQ2A045009

When the power window lock button is pressed:

- The power window lock switch can operate all passengers' power windows.

- The front passenger's control can operate their own power window.
- The rear passengers' controls cannot operate the rear passengers' power windows.

* If you operate the power window lock switch (indicator turns on), the rear passenger cannot open the rear door (if equipped with the Electronic Child Safety Lock System). For more details, refer to "Electronic child safety lock system" on page 57.

NOTE

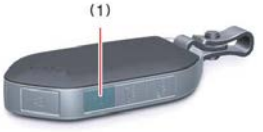
- To prevent possible damage to the power window system, do not open or close 2 or more windows at the same time. This will ensure the longevity of the fuse.
- Never try to operate the main switch on the driver's door and the individual door window switch in opposite directions at the same time. The window will stop and cannot be opened or closed.

WARNING

Windows

- NEVER leave the keys in your vehicle with unsupervised children.
- NEVER leave any child unattended in the vehicle. Even very young children may inadvertently cause the vehicle to move, entangle themselves in the windows, or otherwise injure themselves or others.
- Always double check to make sure all arms, hands, heads 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 button in the LOCK position (pressed). SERIOUS INJURY can result from a child unintentionally operating a window.
- Do not extend your head or any limbs outside the window while the vehicle is in motion.

Remote window opening (if equipped)



OMQ4A035097

You can still control the windows movement with the engine turned OFF.
Press the Door Unlock button (1) for more than 3 seconds. The window moves down after the doors unlock, as long as you press the door unlock button (1). The window movement stops when you release the door unlock button (1).

* The remote window opening feature requires you to apply the automatic power window down for all seats.

NOTE

If you leave the vehicle unattended after operating the remote window opening function, theft may occur. In addition, please use caution, as there might be a malfunction due to the inflow of water while it rains.

NOTE

- The remote window opening function may abruptly stop when you move away from your vehicle during operation. Stay close to your vehicle while monitoring the window movement.
- One of the windows may stop operating when the window is interrupted by force. However, the other windows will keep operating. Make sure that all windows are opened.
- Be careful when using the remote window opening function, as the doors will be unlocked.

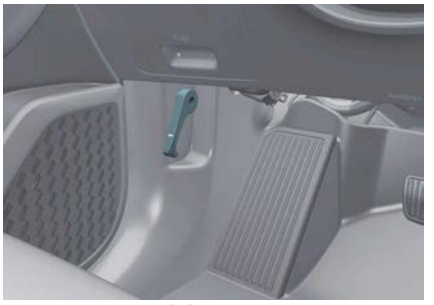
Hood

The hood is a cover for the engine compartment.

Open the hood if you need to look at the engine compartment or have maintenance work performed in the compartment.

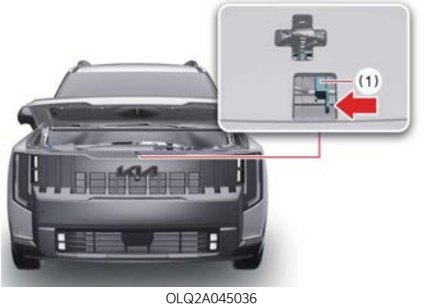
Opening the hood

1. Pull the release lever to unlatch the hood. The hood will pop open slightly.



OLQ2A045035

2. Go to the front of the vehicle, raise the hood slightly, push the secondary hood release lever (1) to the left, and lift the hood.



OLQ2A045036

3. Lift the unlocked hood upwards.



OLQ2A045037

Hood open warning

The hood warning message will appear on the LCD display when the hood is open.



OLQ2A005094

The chime will sound if you drive with the hood opened.

Closing the hood



OLQ2A045034

1. Before closing the hood, check the following:
   - All filler caps in the engine compartment must be correctly installed.

- Gloves, rags, or any other combustible material must be removed from the engine compartment.

2. Lower the hood halfway and push down to securely lock in place.
3. Check that the hood has engaged properly.

   If the hood can be raised slightly, it is not properly engaged. Open it again and close it with a little more force.

WARNING

Hood obstruction

Before closing the hood, make sure that all obstructions are removed from the hood opening. Closing the hood with an obstruction present in the hood opening may result in severe personal injury or property damage.

WARNING

Fire risk

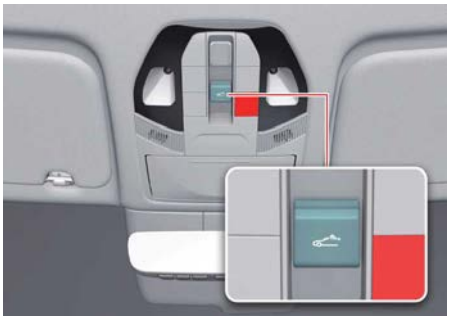
Do not leave gloves, rags, or any other combustible material in the motor compartment. Doing so may cause a heat-induced fire.

WARNING

Unsecured hood

Always double check to be sure that the hood is firmly latched before driving away. If it is not latched, the hood could fly open while you drive the vehicle, causing a total loss of visibility, which may result in an accident.

Sunroof (if equipped)



OLQ2A045038

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

The sunroof can only be operated when the ENGINE START/STOP button 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

- Be sure to operate the sunroof while the car is stationary. If you operate the sunroof while driving, it may interfere with driving and cause an accident.
- Even when leaving the vehicle for a short time, turn off the vehicle and carry the key to prevent children from operating the sunroof.
- Do not sit on the roof. Sitting on a roof or lifting heavy objects can damage the sunroof.

NOTE

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

Sunshade



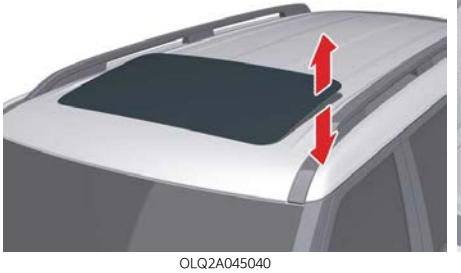
OLQ2A045039

Use the sunshade to block direct sunlight coming through the sunroof glass.
Open or close the sunshade by hand.

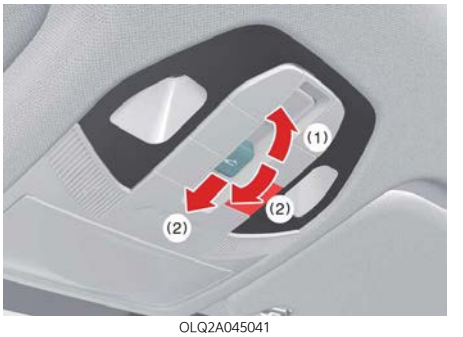
NOTE

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



OLQ2A045040



OLQ2A045041

(1) Tilt open
(2) Tilt close

- Push the sunroof switch upward, the sunroof glass tilts open.
- Push the sunroof switch forward or pull the sunroof switch down when the sunroof glass is tilt opened, the sunroof glass closes.

The sunroof glass tilts open or closes while the switch is pushed.

NOTE

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

Slide open/close



OLQ2A045042



OLQ2A045043

- Push the sunroof switch rearward, the sunshade and sunroof glass slide open.
  Push the sunroof switch forward, only the sunroof glass closes.
- Push the sunroof switch forward or rearward to the first detent position, the sunroof glass moves until the switch is released.
  To stop the sunroof movement at any point, push the sunroof switch in any direction.
- The sunroof glass stops halfway (first detent position) before it is fully opened. To fully open the sunroof glass, push the sunroof switch rearward once more. At this time, the sunroof glass opens only while the switch is pushed.

NOTE

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

Automatic reversal



OLQ2A045044

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

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

WARNING

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

NOTE

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

Resetting the sunroof



OLQ2A045054

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

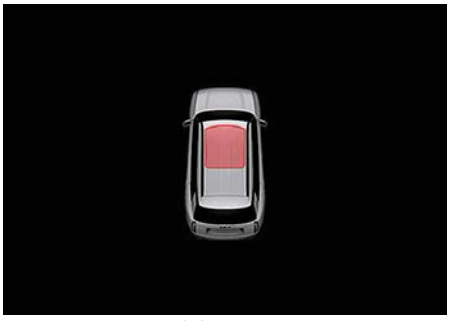
Sunroof resetting procedure:

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

NOTE

If the sunroof does 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



OLQ2A005095

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 instrument cluster. Close the sunroof securely when leaving your vehicle.

NOTE

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.

Dual wide 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.



OLQ2A045057

(1) Rear
(2) Front

The sunroof can only be operated when the ENGINE START/STOP button is in the ON or START 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

- Be sure to operate the sunroof while the car is stationary. If you operate the sunroof while driving, it may interfere with driving and cause an accident.
- Even when leaving the vehicle for a short time, turn off the ignition and carry the key to prevent children from operating the sunroof.
- Do not sit on the roof. Sitting on a roof or lifting heavy objects can damage the sunroof.

NOTE

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

Sunshade (Front)/Power sunshade (Rear)

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

Front



OLQ2A045039



OLQ2A045058

Open or close the sunshade by hand.

TIP

The sunshade opens automatically when the sunroof glass is opened by pushing the sunroof switch (1) rearward, 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.

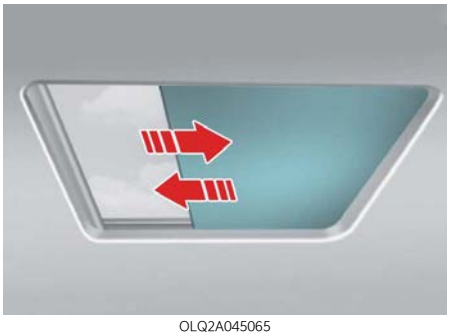
NOTE

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

Rear



OLQ2A045059



OLQ2A045065

- Push the back of the sunshade switch (2) to automatically slide open the sunshade.
  Push the front of the sunshade switch (2) to automatically close the sunshade.

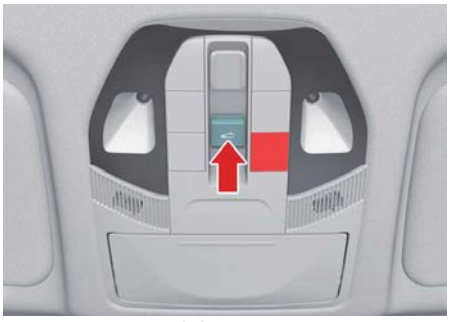
NOTE

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

TIP

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

Tilt open/close (Front)



OLQ2A045060



OLQ2A045061



OLQ2AH045005

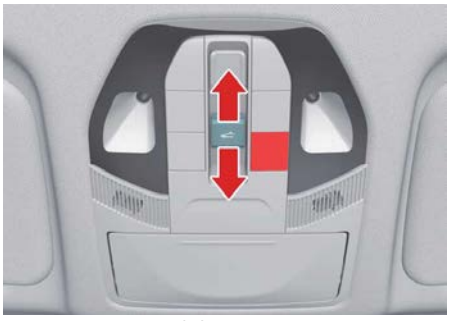
- Push the sunroof switch upward, the sunroof glass tilts open.
- Push the sunroof switch upward or foward when the sunroof glass is tilt opened, the sunroof glass closes.

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

Slide open/close (Front)



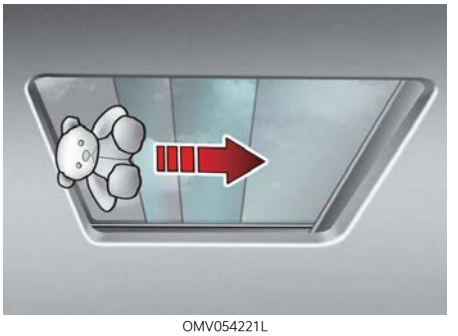
OLQ2A045039



OLQ2A045043

- Push the sunroof switch rearward, the sunshade and sunroof glass slide open.
  Push the sunroof switch forward, only the sunroof glass closes.
- Push the sunroof switch forward or rearward to the first detent position, the sunroof glass moves until the switch is released.
- Push the sunroof switch forward or rearward to the second detent position, the sunroof glass operates automatically (auto slide feature).
  To stop the sunroof movement at any point, push the sunroof switch in any direction.

Automatic reversal



OMV054221L

If the power sunshade or sunroof glass senses any obstacle while it is closing automatically, it will reverse direction then stop at a certain position.
The auto reverse function may not work if an object thin or soft is caught between the sliding power sunshade or sunroof glass and sunroof sash.

⚠ WARNING

- Make sure heads, hands, arms or any other body parts or objects are out of the way before operating the sunroof. Body parts or objects may get caught causing injuries or vehicle damage.

- Never deliberately use your body parts to test the automatic reversal function. The power sunshade or sunroof glass may reverse direction, but there is a risk of injury.

NOTE

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

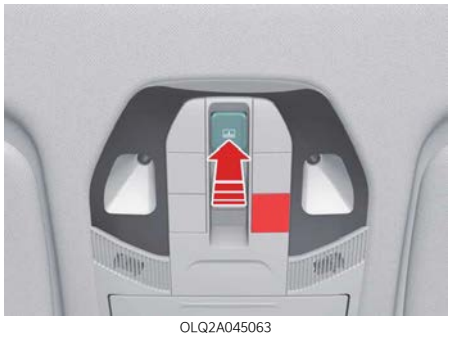
WARNING

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



OLQ2A045061



OLQ2A045063

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 running. Start the vehicle with the gear in P (Park).

2. Make sure the power sunshade or sunroof glass is in the fully closed position. If the power sunshade or sunroof glass is open, push the switch forward until the power sunshade and sunroof glass is fully closed.
3. Release the switch when the power sunshade or sunroof glass is fully closed.
4. Push the switch forward until the power sunshade or sunroof glass moves slightly. Then release the switch.
5. Once again push and hold the sunroof switch forward until the power sunshade or 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.

NOTE

If the sunroof does 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



OLQ2A005095

If the driver turns off the vehicle 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

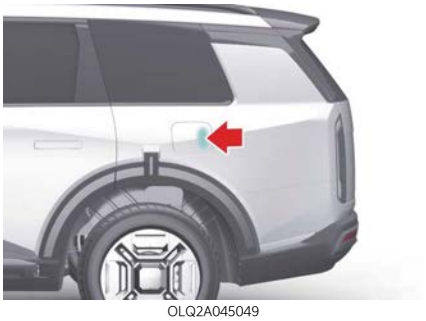
Make sure the sunroof is closed fully when leaving your vehicle.
If the sunroof is left open, rain or snow may wet the interior of the vehicle. Also, leaving the sunroof open when the vehicle is unattended may invite theft.

Fuel filler door

You must open and close the vehicle's fuel filler door by hand from outside the vehicle.

Opening the fuel filler door

1. Turn the engine OFF.
2. Make sure the driver's door is unlocked.
3. Press the rear center edge of the fuel filler door.



OLQ2A045049

4. Pull the fuel filler door out to fully open it.



OLQ2A045050

5. To remove the fuel tank cap (1), turn it counterclockwise. You may hear a hissing noise as the pressure inside the tank equalizes.
6. Place the cap on the fuel filler door.

TIP

The fuel filler door will unlock when the driver's door is unlocked.

To unlock the fuel filler door, take one of the following actions:

- Press the unlock button on your smart key.
- Press the central door unlock button on the armrest trim of the driver's door.

- Pull the driver's inside door handle outward.

The fuel filler door will lock when all doors are locked.

To lock the fuel filler door:

- Press the lock button on your smart key.
- Press the central door lock button on the armrest trim of the driver's door.

All doors and the fuel filler door will automatically lock when vehicle speed exceeds 9.3 mph (15 km/h).

NOTE

Before refueling, be sure to check what type of fuel your vehicle uses.

If you put diesel or ethanol fuel into a gasoline-powered vehicle, it will affect the fuel system and cause serious damage to the vehicle.

If the fuel filler door does not open under certain conditions, such as an electrical malfunction, contact an authorized Kia dealer.

TIP

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

Closing and locking the fuel filler door

To lock the fuel filler door:

- Press the lock button on your smart key
- Press the central door lock button on the armrest trim of the driver's door

All doors and the fuel lid will automatically lock when vehicle speed exceeds 9.3 mph (15 km/h).

1. To install the fuel tank cap, turn it clockwise until it clicks.
2. Close the fuel filler door by pressing its rear center edge.

NOTE

To lock the vehicle's fuel filler door, press the door to the LOCK position when it is completely closed.

If the fuel filler door is not completely closed, it will not be locked.

WARNING

Refueling

Always remove the fuel cap carefully and slowly. If the cap is leaking fuel or if you hear a hissing sound, wait until the condition stops before completely removing the cap.

If pressurized fuel sprays out, it can cover your clothes or skin and subject you to the risk of fire and burns.

TIP

When refueling on unlevel ground, the fuel gauge may not point to the F position. This is not a malfunction. If you move your vehicle to level ground, the fuel gauge will move to the full position.

TIP

Tighten the cap until it clicks 1 time. Otherwise, the engine warning indicator light will appear.

NOTE

Keep the door in the LOCK position when washing the vehicle (for example: high pressure washer, automatic car washer, and so on.)

WARNING

Always tighten your fuel cap before you leave the fueling station. Failure to securely tighten your fuel cap can lead to fuel spillage in an accident and increase fire risk.

WARNING

Fire/explosion risk

Read and follow all warnings posted at the fueling station. Failure to follow all warnings will result in severe personal injury, severe burns, or death due to fire or explosion.

WARNING

Static electricity

- Before touching the fuel nozzle, you should eliminate potentially dangerous static electricity discharge by touching another metal part of the vehicle a safe distance away from the fuel filler neck, nozzle, or other gas source.
- Do not get back into a vehicle once you have begun refueling since you can generate static electricity by touching, rubbing, or sliding against any item or fabric (polyester, satin, nylon, and so on) capable of producing static electricity. Static electricity discharge can ignite fuel vapors, resulting in rapid burning.

WARNING

Portable fuel container

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 you have begun refueling, maintain contact with the vehicle until the filling is complete. Use only approved portable plastic fuel containers designed to carry and store gasoline.

⚠ WARNING

Cell phone fires
Do not use mobile phones while refueling. Electric current or electronic interference from mobile phones can potentially ignite fuel vapors, causing a fire.

⚠ WARNING

Refueling and vehicle fires
When refueling, always shut off the engine. Sparks produced by electrical components related to the engine can ignite fuel vapors, causing a fire. Once refueling is complete, check to make sure the filler cap and filler door are securely closed before starting the engine.

⚠ WARNING

Smoking
DO NOT use matches or a lighter and DO NOT SMOKE or leave a lit cigarette in your vehicle while at a fueling station, especially during refueling. Automotive fuel is highly flammable and can start a fire when ignited.

Make sure to refuel your vehicle according to "Fuel requirements" on page 12.
If the fuel filler cap requires replacement, use only a genuine Kia 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.

NOTE

Exterior paint
Do not spill fuel on the exterior surfaces of the vehicle. Any type of fuel spilled on painted surfaces may damage the paint.

⚠ WARNING

- Do not allow anyone that has not discharged static electricity from their body to come close to an open fuel tank.
- Do not inhale vaporized fuel.

⚠ WARNING

Risk of injury from fuel
Fuels are poisonous and harmful to your health:
- Fuel contains substances that are harmful if inhaled.
- Do not swallow fuel or let it come into contact with skin, eyes, or clothing.
- Do not inhale fuel vapors.

- Keep children away from fuel.

If you or other people come into contact with fuel, take the following actions:

- Immediately rinse the fuel off your skin with soap and water.
- If fuel comes into contact with your eyes, immediately rinse them thoroughly with clean water. Seek medical attention immediately.
- If you swallow fuel, seek medical attention immediately. Do not induce vomiting.
- Change immediately out of clothing that has come into contact with fuel.

NOTE

Damage caused by the wrong fuel

Fuel that does not conform to the vehicle requirements can lead to increased wear or damage to the engine and exhaust system. Only use the recommended fuel.

NOTE

Damage caused by the wrong fuel

Vehicles with a gasoline engine:

Even small amounts of the wrong fuel could result in damage to the fuel system, the engine, and the emission control system.

NOTE

Do not overfill the fuel tank

Do not overfill the fuel tank; otherwise, fuel may spill, causing harm to the environment and damaging the vehicle.

NOTE

- Do not use diesel to refuel vehicles with a gasoline engine.
- Do not turn the vehicle ON if you accidentally refuel with the wrong fuel. Otherwise, the wrong fuel can enter the fuel system.
- Even small amounts of the wrong fuel could result in damage to the fuel system and the engine. Have the system serviced by an authorized Kia dealer.

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Driver adjustments

Steering wheel

The steering wheel of this vehicle has tilt and telescopic ability and a horn.

Motor Driven Power Steering (MDPS)

Power steering uses the motor to assist you in steering the vehicle.

If the engine is off or if the power steering system becomes inoperable, you may still steer the vehicle, but it will require increased steering effort.
The power steering unit, which senses the steering wheel torque and vehicle speed to command the motor, controls the MDPS.
For better control of the steering wheel, the steering effort becomes heavier as the vehicle's speed increases and lighter as the speed decreases.
Should you notice any change in the effort required to steer during normal vehicle operation, have the system checked by an authorized Kia dealer.

TIP

The following may occur during normal vehicle operation:

- When the ENGINE START/STOP button is the ON position, the steering wheel enters normal operation mode after diagnosing the MDPS system (for about 3 seconds).
- You may hear a click noise from the MDPS relay after turning the ENGINE START/STOP button to the ON or OFF position.
- If you operate the steering wheel when the vehicle is not in motion or when driving at a low speed, you may hear some noise.
- If the MDPS system does not operate normally, the warning light appears or blinks on the instrument cluster. If the power assistance for steering fails, you will need to use more force to steer.
- Operating the steering wheel at lower temperatures may require more force and cause more accompanying noise. When the temperature increases, steering returns to normal.
- When the charging system warning light comes on due to the low voltage (when the alternator or battery does not operate normally or malfunctions), you may need to use more force to steer.
- When jump starting the vehicle after battery discharge, the steering wheel may not function properly. This is a temporary situation due to low battery voltage, and upon stable battery charging, the steering wheel will function normally again. Please move the steering wheel around to make sure it is functioning properly before driving the vehicle.

TIP

When you continuously operate the steering wheel, the overcurrent protection device activates and requires more force to operate the steering wheel. This doesn't indicate a malfunction, and it works for your safety and will return to normal after some time.

WARNING

If the EPS system does not work or an error occurs, the warning light on the instrument panel may turn on or blink, and it may require more force to operate the steering wheel. Hold the steering wheel more tightly than usual and operate with greater force. Then immediately pull your vehicle over to a safe place and have it inspected by an authorized Kia dealer.

Tilt and telescopic steering wheel

A tilt and telescopic steering wheel allows you to adjust the steering wheel before you drive. You can also raise the wheel to give your legs more room when you exit and enter the vehicle.
The steering wheel should be positioned so that it is comfortable for you to drive, while permitting you to see the instrument panel warning lights and gauges.

WARNING

Steering wheel adjustment
Never adjust the angle and height of the steering wheel while driving. You may lose steering control.

Adjusting steering wheel angle and height

Manual type



OLQ2A055047

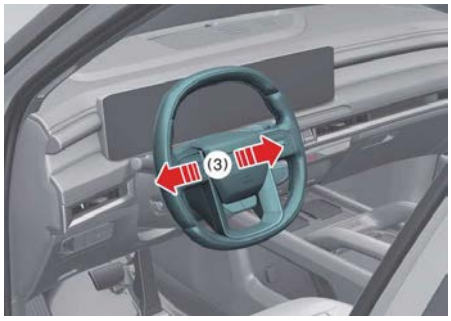
Electric type



OLQ2A055022



OLQ2A055023



OLQ2A055024

Manual type

1. To change the steering wheel angle, pull down the lock release lever (1).
2. Adjust the steering wheel to the desired angle (2) and distance forward or back (3).
   Move the steering wheel so that it points toward your chest, not toward your face. Make sure you can see the instrument panel warning lights and gauges. After adjusting, pull up the lock.
3. Push the steering wheel both up and down to make sure it is locked into position.
4. Adjust the steering wheel to the desired position before driving.

TIP

After adjustment, sometimes the lock-release lever may not lock the steering wheel. If this happens, adjust the steering wheel again to get it to lock. This is not a malfunction. It happens when 2 gears engage, and a small adjustment of either angle or height will correct the issue.

Electric type

Adjust the steering wheel to the desired angle and distance forward/back with the switch.

WARNING

- Never adjust the position of the steering wheel while driving.
- While adjusting the steering wheel height, please do not push or pull it hard since the fixture can be damaged.

Steering wheel heater (if equipped)

When the ENGINE START/STOP button is in the ON position, pressing the heated steering wheel button warms the steering wheel. The indicator on the button will appear.



OLQ2A055025

- Press the steering wheel heater button. When you press the steering wheel heater button, the indicator lights up and the steering wheel will warm.
- To prevent low-temperature burns,the steering wheel temperature is automatically adjusted after the steering wheel heater is manually turned on.

Steering wheel heater level	Operating time
Off	-
2 (Strong)	30 minutes
1 (Weak)	Until restart

  - When using the steering wheel heater in the 2nd level (strong), it automatically lowers to the 1st level (weak) after about 30 minutes.
  - If the user does not manually operate the steering wheel heater, it is maintained at the 1st level (weak)until the vehicle is turned off.
- To turn off the steering wheel heater,press and hold the steering wheel heating button until the indicator light goes out.

NOTE

- Do not install any type of grip cover for the steering wheel, it may impair the function of the heated steering wheel system.
- When cleaning the heated steering wheel, do not use an organic solvent such as paint thinner, benzene, alcohol or gasoline. Doing so may damage the surface of the steering wheel.
- If the surface of the steering wheel is struck by a sharp object, damage to the heated steering wheel components could occur.

WARNING

If the steering wheel becomes too warm, turn the system off. The heated steering wheel may cause burns even at low temperatures, especially if used for a long time.

Steering wheel grip sensor

While driving the vehicle with the Driver Assistance system on, it detects whether the driver is holding the steering wheel and displays the Hands-off warning when the driver is not holding the

steering wheel.
For more details, refer to "Lane Keeping Assist (LKA)" on page 493, "Lane Following Assist (LFA)" on page 502, "Highway Driving Assist (HDA)" on page 586.

NOTE

The steering wheel sensor may not work properly if the following precautions are not followed.

- Do not modify the steering wheel cover.
- Do not attach accessories on the rim of the steering wheel.
- Do not let the steering wheel come in contact with electronic devices (for example, laptops, tablets, etc.).
- Do not let the steering wheel come in contact with metallic or conductive objects (for example, tumblers, beverage cans, etc.).
- Avoid excessive contact with moisture (for example, wet tissues, spilled water, vapor from steam wash, etc.).

When the driver is wearing gloves or accessories such as a cover, steering wheel knobs, any other attachments are attached to the steering wheel, the sensor may fail to detect the driver's hands even when the driver is holding the steering wheel.

Horn

Press the area indicated by the horn symbol on your steering wheel to sound the horn (see illustration).



OLQ2A055026

The horn operates only when you press this area. Check the horn regularly to be sure it operates properly.

NOTE

Do not strike the horn with your fist. Do not press on the horn with a sharp or pointed object.

Mirrors

This vehicle is equipped with inside and outside rearview mirrors to provide views of objects behind the vehicle.

Inside rearview mirror

Adjust the rearview mirror so that you can see the center view through the rear window. Make this adjustment before you start driving.

Do not place objects in the rear seat or cargo area that could interfere with your view out the rear window.

WARNING

Mirror adjustment
Do not adjust the rearview mirror while the vehicle is moving. This could result in losing control of the vehicle.

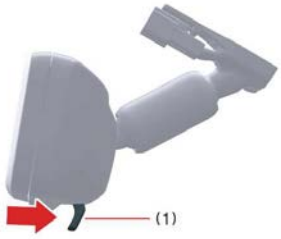
WARNING

Do not modify the inside mirror in any manner, including installing a wide mirror. Doing so could result in injury during an accident or deployment of the air bag.

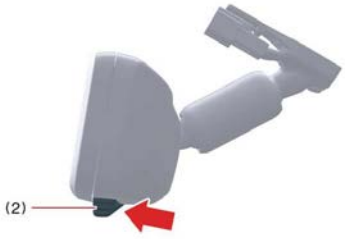
NOTE

Mirror cleaning
To clean the mirror, use a paper towel or similar material dampened with glass cleaner. Do not spray glass cleaner directly on the mirror. It may cause the liquid cleaner to enter the mirror housing.

Day/night rearview mirror (if equipped)



OMQ4A035418



OMQ4A035419

(1) Day
(2) Night

Make this adjustment before you start driving and while the day/night lever is in the day position (1).

Pull the day/night lever toward you (2) to reduce the glare from the headlamps of the vehicles behind you when night driving.

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

Electric Chromic Mirror (ECM) (if equipped)

The ECM automatically controls the glare from the headlights of vehicles behind you at night or in low-light driving conditions.

The sensor mounted on the rearview mirror detects the light level around the vehicle and automatically controls the headlamp glare from the vehicles behind you when the engine is running.

Digital Center Mirror (if equipped)

The Digital Center Mirror is a system that uses the camera on the rear of the vehicle and displays its image on the screen of the Digital Center Mirror. The Digital Center Mirror allows the driver to see the rear view despite obstructions, such as the headrest or luggage, ensuring rear visibility.

⚠ WARNING

- Failure to follow the warnings and instructions for proper use of the Digital Center Mirror could result in serious accident.
  - The Digital Center Mirror is a convenience feature but it is not a substitute for proper vehicle operation. The system has areas where objects cannot be viewed. Check the blind spot of the Digital Center Mirror before vehicle operation. The driver is always responsible for safe driving.
  - Do not operate the Digital Center Mirror while driving. Doing so can be a distraction and it could lose control of your vehicle and cause an accident or serious injury.
  - Do not disassemble or modify the Digital Center Mirror, the camera unit or wirings. If you do, it may result in accidents or fire. In case you notice smoke or smell coming from the Digital Center Mirror, stop using the system immediately. Have the system inspected by authorized Kia dealer.

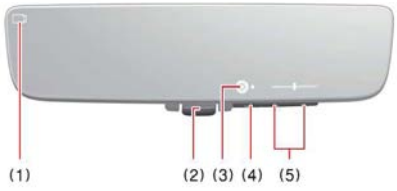
ⓘ NOTE

- Be sure to adjust the Digital Center Mirror before driving.
  - Switch the system to the conventional rearview mirror mode and be properly seated on the driver's seat. Then adjust the mirror so as to see the rear window properly.
  - Pull the lever all the way to change to digital mirror mode and adjust the display settings. Driving without adjusting the mirror may cause difficulty in watching the display at the Digital Mirror mode (camera view mode) due to the reflection from the surface of the mirror.
  - As the range of the image display by the Digital Center Mirror is different from that of the optical mirror, make sure to check.
- If the Digital Center Mirror malfunction, immediately switch the system to the conventional rearview mirror mode.
- When strong light (for example, sunlight or high beams from following vehicles) enters the camera, a light beam or a glaring light may appear on the monitor screen of the Digital Center Mirror. In that case, switch the system to the conventional rearview mirror mode appropriately.
- If the camera lens (1) is dirty, the displayed image may not be clear. First use the washer function to remove the dirt. If the washer does not clean the lens, wipe it with a soft cloth dampened with water or a swab.



OLQ2A055038

System component



OLQ2A055039

(1) Camera indicator
Indicates that the camera is operating normally.
(2) Lever
Operate to change between digital mirror mode and optical mirror mode.
(3) Icon display area
Displays icons, adjusting Brightness & Tilt
(4) Menu button
Press to display the icon display area and select the item you want to adjust (Brightness & Tilt).
(5) Adjust button
Press to change the setting of the item you want to adjust.

How to change the mode

The mode can be switched when the switch is in the ON position.



OLQ2A055040



OLQ2A055041

1. Pull the mode select lever to all the way switch to the Digital Center Mirror mode (camera view mode).
   * Displays an image of the area behind the vehicle. In this mode, camera indicator is shown.
2. Push the mode select lever to all the way switch to the optical inside rearview mirror mode.
   * Turns off the display of the Digital Center Mirror allows it to be used as an optical mirror.

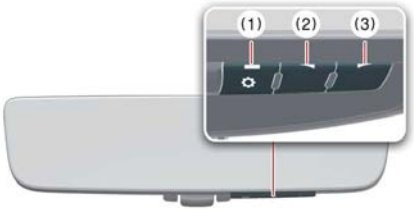
Adjusting the mirror height



OLQ2A055042

The height of the rearview mirror can be adjusted to suit your driving posture.
Change to optical mirror mode, adjusting the rearview mirror angle by moving it up and down.

Display settings (Digital mirror mode)



OLQ2A055043

1. Press the menu button (1) The icons will be displayed.

Icons	Settings
	Select to adjust the brightness of the display.
	Select to adjust the display up/down.

2. Press the menu button (1) repeatedly and select the item you want to adjust.
3. Press the button (2) or button (3) to change the setting.

   The icons will disappear if the button is not operated for approximately 5 seconds or more.

* If the brightness of the Digital Center Mirror is set too high, it may cause eye strain.

Adjust the Digital Center Mirror to and appropriate brightness. If your eyes become tired, change to optical mirror mode.

To prevent the light sensors from malfunctioning



OLQ2A055044



OLQ2A055045

To prevent the light sensors from malfunctioning, do not touch or cover them.

Digital mirror mode operating condition

The ENGINE START/STOP button is in the ON position. When the ENGINE START/STOP button is changed LOCK/OFF or ACC position, the image will be disappeared.

When using the Digital Center Mirror in digital mirror mode

- When the liftgate is open, the Digital Center Mirror image may not display properly. Before driving, make sure the liftgate is closed.
- If the display is difficult to see due to reflected light, close the sunshade for the sunroof. (if equipped)
- Any of the following conditions may occur when driving in the dark, such as at night. None of them indicates that the malfunction has occurred.
  - Colors of objects in the displayed image may differ their actual color.
  - Depending on your physical condition or age, it may take longer than usual to focus on the displayed image. In this case, change to optical mirror mode.
  - Do not let passengers stare at the displayed image when the vehicle is being driven, as doing so may cause motion sickness.

When the system malfunctions



OLQ2A055046

If the symbol shown in the illustration is displayed when using the Digital Center Mirror in digital mirror mode, the system may be malfunctioning. The symbol will disappear in a few seconds. Operate the lever, change to optical mirror mode and have the vehicle inspected by authorized Kia dealer.

⚠ CAUTION

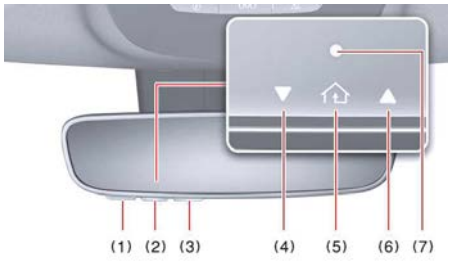
- To prevent the Digital Center Mirror from malfunctioning.
- Do not use detergents, such as thinner, benzene, and alcohol to clean the mirror. They may dis color, deteriorate or damage the mirror surface.
- Do not remove, disassemble or modify the mirror and camera.
- Do not allow an organic solvent, vehicle wax, window cleaner or glass coating to adhere to the camera. If this happens, wipe it off as soon as possible.
- When cleaning the camera lens, wipe the camera lens with a damp soft cloth.
- Do not strongly rub the camera lens, as it may be scratched and will not be able to transmit a clear image.
- Do not subject the camera to a strong impact as this could cause a malfunction. If this happens, have the vehicle inspected by an authorized Kia dealer as soon as possible.
- Operating the system at the ON position while the vehicle is not running would cause discharging of the battery.

- Do not attach an antenna of wireless device near the Digital Center Mirror. Electric wave from wireless device may cause disturbed image in Digital Center Mirror.
- Do not push buttons excessively or operating the lever roughly may cause a system failure or the Digital Center Mirror itself to drop.
- Never rotate the body of Digital Center Mirror by 90° or more. It may damage the Digital Center Mirror. Do not apply strong shocks to the body of Digital Center Mirror. It may cause a system failure.
- If it is difficult to see the Digital Center Mirror display screen because of a strong external light, switch the mode to the conventional rearview mirror mode for better use.

Digital Center Mirror error icon and solution

Symptom	Likely cause	Solution
If the high temp icon is displayed on the display right side.	The Digital Center Mirror is extremely hot. (The display will gradually become more dim. If the temperature continues to increase, the Digital Center Mirror will turn off.)	Reducing the cabin temperature is recommended to reduce the temperature of the mirror. (The icon will disappear when the mirror becomes cool.) If the icon does not disappear even though the mirror is cool, have the vehicle inspected by authorized Kia dealer.
If the display icon has been switched to which is the display error icon.	The system may be malfunctioning.	Change to optical mirror mode and have the vehicle inspected by authorized Kia dealer.

Electrochromic mirror (ECM) with HomeLink® system (if equipped)



OMQ4A035498

(1) **HomeLink** Channel 1
(2) **HomeLink** Channel 2
(3) **HomeLink** Channel 3
(4) Garage Door Opener Status Indicator: Closing or Closed
(5) **HomeLink** Operation Indicator
(6) Garage Door Opener Status Indicator: Opening or Opened
(7) **HomeLink** User Interface Indicator

Your vehicle may be equipped with a Gentex Automatic-Dimming Mirror with an Integrated HomeLink® Wireless Control System.

During nighttime driving, this feature will automatically detect and reduce rearview mirror glare. The HomeLink® Universal Transceiver allows you to activate your garage doors, electric gate, home lighting, and so on.

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

The NVS® Mirror automatically reduces glare by monitoring light levels in the front and the rear of the vehicle. Any objects that obstruct the light sensor will negatively affect the automatic dimming control feature.

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

Your mirror will automatically dim upon detecting glare from the vehicles traveling behind you. The mirror defaults to the ON position whenever you start the vehicle.

Integrated HomeLink® Wireless Control System

The HomeLink® Wireless Control System provides a convenient way to replace up to 3 hand-held radio-frequency (RF) transmitters that activate compatible devices such as gate operators, garage door openers, entry door locks, security systems, and home lighting.

TIP

Due to the Home Security when the vehicle is parked outside the garage, the **HomeLink** will ONLY work the vehicle is in the ACC or ON position.

TIP

Before programming **HomeLink** to work with a garage door opener or gate operator, make sure that people and objects are out of the way of the device to prevent potential harm or damage. When programming a garage door opener, it is advised to park outside of the garage.

Do not use **HomeLink** with any garage door opener that lacks safety stop and reverse features as required by U.S. federal safety standards (this includes any garage door opener model manufactured before April 1, 1982). A garage door that cannot detect an object signaling the door to stop and reverse does not meet current U.S. federal safety standards. For more information, contact **HomeLink** at **www.homelink.com**, or call **HomeLink** customer support at **1-800-355-3515**.

It is also recommended that you place a new battery into the hand-held transmitter of the device being trained to work with **HomeLink** for quicker training and accurate transmission of the radio frequency.

1. Programming HomeLink®

The following steps show how to program HomeLink®. If you have any questions or are having difficulty programming your HomeLink® buttons, refer to the HomeLink® website or call the HomeLink® customer support toll-free number before going back to the dealer who sold you the car.

Visit the HomeLink® website at: www.homelink.com. At the top of the page, choose your vehicle

make. Then you can watch the YouTube video and access additional information on the website. If you choose to access the website via your cell phone, scan the QR code:

ODL3A040519

Or call HomeLink® customer support at **1-800-355-3515**

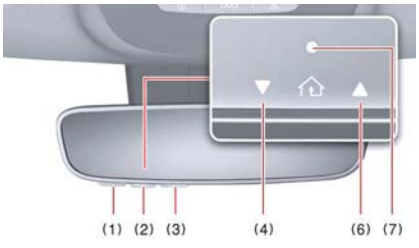
(Please have the vehicle make/model AND the opener device make/model readily available.)

1. Programming Preparation

    1. When programming a garage door opener, it is advised to park the vehicle outside of the garage.

    2. It is recommended that you place a new battery into the hand-held transmitter of the device being programmed to HomeLink® for quicker training and accurate transmission of the radio-frequency signal.

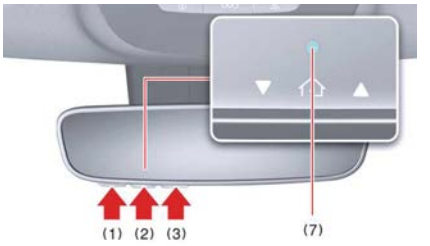
    3. Press the ENGINE START/STOP button in the ACC position to program HomeLink®.



OMQ4A035499

2. Programming a New HomeLink® Button

    1. Press and release the HomeLink® button you would like to program (1, 2, or 3). The HomeLink® indicator light (7) will slowly flash orange. If it does not, perform the steps in the “Erasing HomeLink® Buttons” section, and start over.



OMQ4A035500

2. Position the garage door opener remote 1 - 3 inches (2 - 8 cm) away from the HomeLink® buttons.



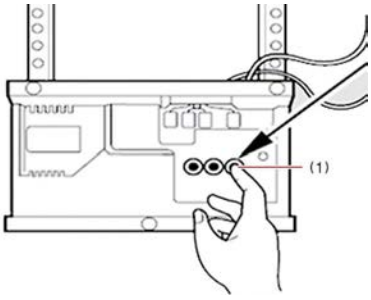
OMQ4A035447

3. While the HomeLink® indicator light (7) is flashing orange, press and hold the hand-held remote button. Continue pressing the hand-held remote button until the HomeLink® indicator light (7) changes from orange to green. You may now release the hand-held remote button.

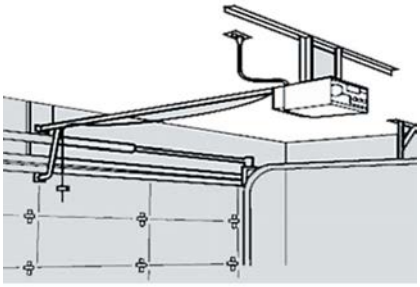
4. Wait until your garage door comes to a complete stop, regardless of position, before proceeding to the next steps.

5. Press and release the HomeLink® button you are programming, and observe the indicator light.
   If the indicator light remains solid green, your device should operate when you press the HomeLink® button. At this point, if your device operates, programming is complete.
   If the indicator light rapidly flashes green, firmly press the HomeLink® button, hold it for 2 seconds, and release it up to three times in a row slowly to complete the programming process. Do not press the HomeLink® button rapidly. At this point, if your device operates, programming is complete. If the device does not operate, continue with the next step.

6. At the garage door opener motor, security gate motor, or other system motor, locate the "Learn," "Smart," "Set," or "Program" button. This can usually be found where the hanging antenna wire (1) is attached to the motor-head unit (see the device's manual to identify this button). The name and color of the button may vary by manufacturer.



OMQ4A035464



OMQ4A035465

* A ladder or second person may simplify the following steps.

7. Firmly press and release the "Learn," "Smart," "Set," or "Program" button. You now have up to 30 seconds to complete the next step.

8. Return to the vehicle and firmly press the HomeLink® button, hold it for 2 seconds, and release it up to 3 times in a row slowly. Do not press the HomeLink® button rapidly. As soon as you see the garage door start to move, stop pressing any buttons until a few seconds after the garage door has come to a complete stop, regardless of position. At this point, programming is complete and your device should operate when you press and release the HomeLink® button.

Two-Way Communication programming (for select garage door openers)

If your garage door opener has the " **myQ** " logo on its side, your opener has Two-Way Communication capability. HomeLink® has the capability to establish Two-Way Communication with your garage door opener. HomeLink® can receive and display "closing" or "opening" status messages from compatible garage door openers. At any time, HomeLink® can also recall and display the last recorded status communicated by the garage door opener to indicate your garage door being "closed" or "opened."

To check if your garage door opener is compatible with this feature, refer to www.homelink-.com/support. If your garage door opener has this functionality, AND the Two-Way Communication indicators (4), (6) in the mirror appear while the garage door is opening/closing, then no further steps are needed. Two-Way Communication programming is already complete. However, if your garage door opener has this functionality, AND the Two-Way Communication indicators (4), (6) in the mirror DO NOT appear while the garage door is opening/closing, use the following instructions to enable this functionality.

3. In your vehicle, press and hold the programmed HomeLink® button for 2 seconds, then release it. Confirm that the garage door is moving. AFTER it stops, you will have 1 minute to complete the following steps:

   * A ladder or second person may simplify the following steps.

   1. On the garage door opener in your garage, locate the "Learn" button (usually near where the hanging antenna wire is attached to the garage door opener). If you have difficulty locating this button, refer to the device's owner's manual.

   2. Press and release the "Learn" button.

   3. A light on your garage door opener may flash, and your Two-Way Communication indicators (4), (6) in your vehicle may flash, confirming completion of the process.

   4. Return to the vehicle and firmly press and release the programmed HomeLink® button to activate your garage door. The Two-Way Communication indicators (4), (6) flash in orange when the door is moving. Do not press any additional buttons until AFTER the garage door has come to a complete stop.
      Your Two-Way Communication programming is now complete.

   > **TIP**
   >
   > If your garage door opener has Two-Way Communication functionality and the Two-Way Communication programming wasn't properly completed, HomeLink® may stop operating the garage door shortly after initial programming. This usually happens after the first 10 times you press a programmed HomeLink® button. If you experience this, completing the "Programming a New HomeLink® Button" and "Two-Way Communication programming" procedures will restore door operation.

4. Canadian Programming

   Canadian radio-frequency laws require transmitter remote signals to "time out" (or quit) after a couple seconds of transmission, which may not be long enough for HomeLink® to pick up the signal during programming.

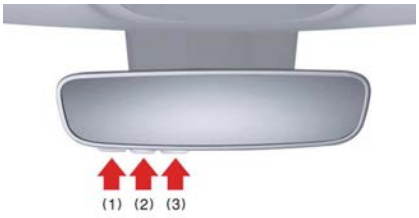
   If you live in Canada or you are having difficulties programming a gate operator or garage door opener by using the programming procedures, replace "Programming a New HomeLink® Button" step 3 with the following:

While the HomeLink® indicator light (7) is flashing orange, press and release ("cycle") your device's hand-held remote every two seconds until the HomeLink® indicator light (7) changes from orange to green. You may now release the hand-held remote button. Then proceed with "Programming a New HomeLink® Button" step 4.

2. Operating HomeLink®

1. Operating HomeLink®

   1. Press and release the programmed HomeLink® button (1, 2, or 3).

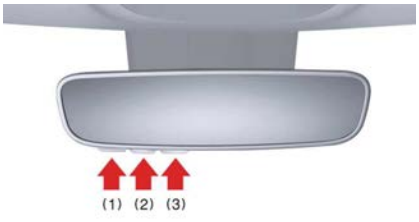


OMQ4A035449

> **TIP**
>
> The HomeLink® indicator (7) should light green, solid, or flashing, and your programmed device should operate.
>
> If your device does not operate, the HomeLink® programming was not successful, and you'll need to reprogram the button.

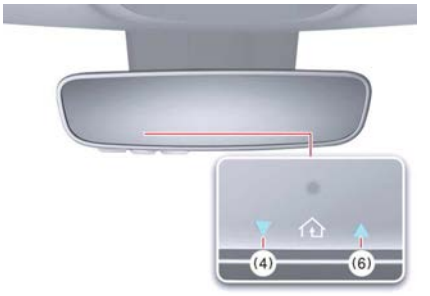
2. Two-Way Communication Display Behavior

   1. Press and release 1 of the programmed HomeLink® buttons (1, 2, or 3).



OMQ4A035449

   2. The indicator (4) and (6) operates as follows if your garage door opener has Two-Way Communication functionality:



OMQ4A035450

- If the indicator (4) flashes orange, the garage door is closing.
- The indicator (4) will turn solid green once the garage door has closed.
- If the indicator (6) flashes orange, the garage door is opening.
- The indicator (6) will turn solid green once the garage door has fully opened.
- If the indicator (4) or (6) does not turn green, the last status of the garage door was not received properly. The HomeLink® mirror will try to receive the last known status of the garage door for a few seconds.

3. Recalling Garage Door Status
   The HomeLink® mirror with Two-Way Communication provides a way to view the last stored message from the garage door opener. To recall the last known status of the last activated device, press the buttons "1 and 2" OR "2 and 3" simultaneously.
   - If indicator (4) appears solid green, the last activated device was closed properly.
   - If indicator (6) appears solid green, the last activated device was opened properly.

3. Erasing HomeLink® Buttons

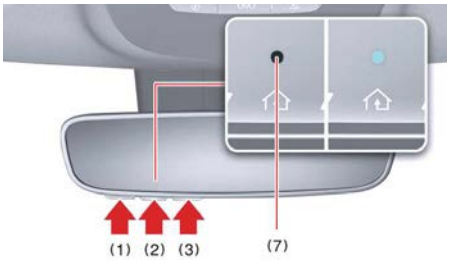
1) Erasing and reprogramming a single HomeLink® button:

1. Press and hold the HomeLink® button you want to reprogram. DO NOT release the button.
2. The HomeLink® indicator light (7) will appear solid green. Release the button as soon as the HomeLink® indicator light (7) begins to flash orange, which usually takes approximately 20 seconds.
3. Proceed with the steps in the "Programming a new HomeLink® button" section.

TIP

If you do not complete the reprogramming of a new device to the button, it will revert to the previously stored programming.

2) Erasing ALL HomeLink® programming from ALL buttons:



OMQ4A035501

1. Press and hold buttons (1) and (3) simultaneously.
2. The HomeLink® indicator light (7) will appear solid orange for about 10 seconds.
3. Release the buttons once the HomeLink® indicator light (7) rapidly flashes green.
4. Now all 3 HomeLink® buttons (1), (2), and (3) are cleared of any programming.

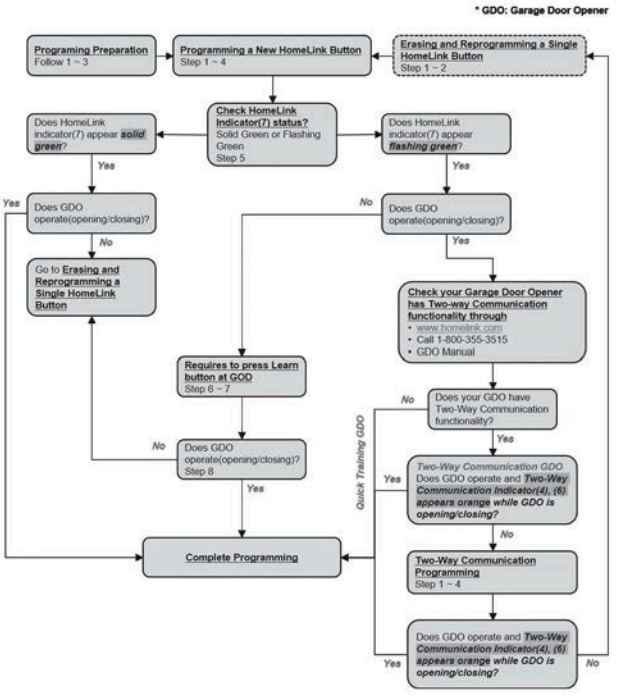
Information

HomeLink® and the HomeLink® House logo are registered trademarks of Gentex Corporation. The myQ® logo is a registered trademark of The Chamberlain Group, Inc.

FCC (USA) and ISED (Canada)

This device complies with FCC rules part 15 and Innovation, Science, and Economic Development Canada RSS-210. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference that may be received including interference that may cause undesired operation. WARNING: The transmitter has been tested and complies with FCC and ISED rules. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the device.
This equipment complies with FCC and ISED radiation exposure limits set forth for an uncontrolled environment. End Users must follow the specific operating instructions for satisfying RF exposure compliance. This transmitter must be at least 8 in (20 cm) from the user and must not be co-located or operating in conjunction with any other antenna or transmitter.

HomeLink® 5 programming flow chart



OMQ4A035452

Outside rearview mirror

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

Be sure to adjust the mirror angle before driving.
You can adjust the mirrors remotely with the control levers or remote switch depending on the type of mirror control installed. You can fold the mirror heads back to prevent damage in an automatic car wash or when driving on a narrow street.

TIP

Rearview mirrors

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

NOTE

Do not scrape ice off of the mirror face, as scraping may damage the surface of the glass. If ice restricts the mirror's movement, do not force the mirror to adjust its position. To remove ice, use either a de-icer spray or warm water and a sponge or soft cloth.

NOTE

If the mirror is jammed with ice, do not adjust the mirror by force. Use an approved spray de-icer (not radiator antifreeze) to release the frozen mechanism, or move the vehicle to a warm place and allow the ice to melt.

WARNING

Do not adjust or fold the outside rearview mirrors while the vehicle is moving. This could result in a crash and serious injury or death.

Adjusting the outside rearview mirrors

The electric remote control mirror switch allows you to adjust the position of the left and right outside rearview mirrors.



OLQ2A055028

To adjust the outside rearview mirrors, follow these steps:

1. Move the R or L switch to select the right side mirror or the left side mirror.
2. Engage the corresponding point on the mirror adjustment control to position the selected mirror up, down, left, or right.

NOTE

- The mirrors will stop moving when they reach their maximum adjustment angles, but the motor will continue to operate while the switch is pressed. To avoid damage to the motor, do not press the switch longer than necessary.
- Do not adjust the outside rearview mirrors by hand. Doing so may damage their parts.

Folding the outside rearview mirror

Manual type (if equipped)

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



OLQ2A055029

Electric type (if equipped)

You can fold or unfold the outside rearview mirror by pressing the switch as shown in the following image:



OLQ2A055030

- To fold the outside rearview mirror,press the button.
- To unfold it, press the button again.

CAUTION

You can adjust the electric outside rearview mirrors even when the ENGINE START/ STOP button is in the ACC or OFF positions. To prevent unnecessary battery discharge, do not adjust the mirrors for longer than necessary while the engine is not running.

NOTE

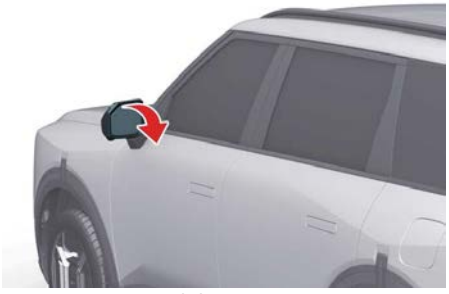
Do not fold an electric outside rearview mirror by hand. This action can cause motor failure.

Reverse parking aid function (if equipped)

When you shift the gear to the R (Reverse) position, the outside rearview mirrors will rotate downward to aid in driving in reverse.



OLQ2A055031



OLQ2A055032

The position of the outside rearview mirror switch (1) determines whether or not the mirrors will move.

Left or right: When you select either the L (Left) or R (Right) switch, the corresponding outside rearview mirror will move.

Neutral: When you do not select either switch, the outside rearview mirrors will not move.

The outside rearview mirrors will automatically revert to their original positions in the following cases:

- You set the ENGINE START/STOP button set to either OFF or ACC.
- You shift the gear to any position except R (Reverse).
- You do not select the remote control outside rearview mirror switch.

Auto reverse user settings

If you cannot secure enough visibility with the angles provided as factory default settings, you can readjust the angles of the outside rearview mirrors.

You can set the factory default angles of the right and left rearview mirrors differently to improve visibility:

1. Set the shift lever to P (Park). Make sure that the vehicle is stopped and the mirrors are not working.
2. Position the lever to L (left) or R (right) according to the mirror you want to adjust.
3. Engage the brake pedal and set the shift lever to R (Reverse).
4. When the rearview mirror finishes moving downward, adjust it by pressing the directional switches: ▼, ▲, ◄, ►.
5. To automatically save the adjusted angle, set the shift lever to a gear other than R (Reverse), change the rearview mirror selector lever to neutral, and wait for the mirror's automatic return.
6. Follow the same procedure to adjust the rearview mirror on the other side of the vehicle.

How to reset auto reverse user settings

To change the rearview mirror automatic control functions back to their factory default settings, follow these steps:

1. Set the shift lever to P (Park). Make sure that the vehicle is stopped and the mirror is not

working.

2. Position the lever to L (left) or R (right) according to the mirror you want to adjust.
3. Engage the brake pedal and set the shift lever to R (Reverse).
4. When the rearview mirror finishes moving downward, press the ▲ (up) switch to move the mirror's position higher (P, N, or D). Adjust the mirror higher than its driving mode position.
5. To initialize auto reverse user settings, shift the gear out of R (Reverse), or change the rearview mirror selector lever to its neutral position. The initialized position will be applied in the next operation.
6. Follow the same procedure to initialize settings for the rearview mirror on the other side of the vehicle.

TIP

Kia recommends following the above procedures in order when changing or initializing auto reverse user settings. If you move to the next step before completing the previous 1, the angle may not change or initialization may not work properly.

Integrated memory system (if equipped)

Integrated memory system for the driver's seat is provided to store and recall the following memory settings with a simple button operation.



OLQ2A055033

- Driver's seat position
- Outside rearview mirror
- Steering wheel
- Head-Up Display (HUD)

WARNING

Never attempt to operate the integrated memory system while the vehicle is moving.
This could result in loss of control, and an accident causing death, serious injury, or property damage.

NOTE

- If the battery is disconnected, the memory settings will be deleted.
- If integrated memory system does not operate normally, have the system checked by an authorized Kia dealer.

Storing memory positions

1. Shift to P (Park) while the ENGINE START/STOP button is in the ON position.
2. Adjust the driver's seat position, outside rearview mirror position, steering wheel position and head-up display height to the desired positions.
3. Hold the button (1 or 2). The system will beep once and notify you."Driver 1 (or 2) settings saved" will appear on the infotainment screen.

Recalling memory positions

1. Shift to P (Park) while the ENGINE START/STOP button is in the ON position.
2. Press the desired memory button (1 or 2). The system will beep once, and then the driver's seat position, outside rearview mirror position, steering wheel position and head-up display height will automatically adjust to the stored positions.

"Driver 1 (or 2) settings applied" will appear on the infotainment screen.

Seat easy access

Seat easy access moves the driver's seat and steering wheel automatically as follows:

Exiting the vehicle

- The driver's seat will move as follows when the ENGINE START/STOP button is in the OFF position with the gear in P (Park) and the driver's door open.
- Driver seat: Moves rearward depending on the distance selected from the Settings menu in the infotainment system.

  However, the driver's seat may not move rearward if there is not enough space between the driver's seat and the rear seats.

Entering the vehicle:

The driver's seat will move as follows when the ENGINE START/STOP button is pressed to the ACC, ON or START position or while carrying the smart key, the driver's door is closed with the ENGINE START/STOP button in the OFF position.

- Driver seat: Moves back to its original position.

You can set the Seat Easy Access function from the Settings menu in the infotainment system screen.

- Driver seat: Select **Settings > Vehicle > Seats > Seat Easy Access > Dirver seat easy access** on the infotainment system.

Resetting the system

Take the following procedures to reset integrated memory system, when it does not operate properly.

Resetting the integrated memory system

1. Stop the vehicle and open the driver's door with the ENGINE START/STOP button in the ON position and the vehicle shifted to P (Park).
2. Adjust the driver's seat and seatback to the foremost position.
3. Press the memory button 1 (or 2) and push forward the driver's seat movement switch over 2 seconds simultaneously.

While resetting the integrated memory system

1. Resetting starts with a notification sound.
2. The driver's seat and seatback is adjusted to the rearward position with the notification sound.
3. The driver's seat and seatback is re-adjusted to the default position (central position) with the notification sound.

   However, in the following cases, the resetting procedure and the notification sound may stop.
   - The memory button is pressed.
   - The seat control switch is operated.
   - The gear is shifted out of P (Park).

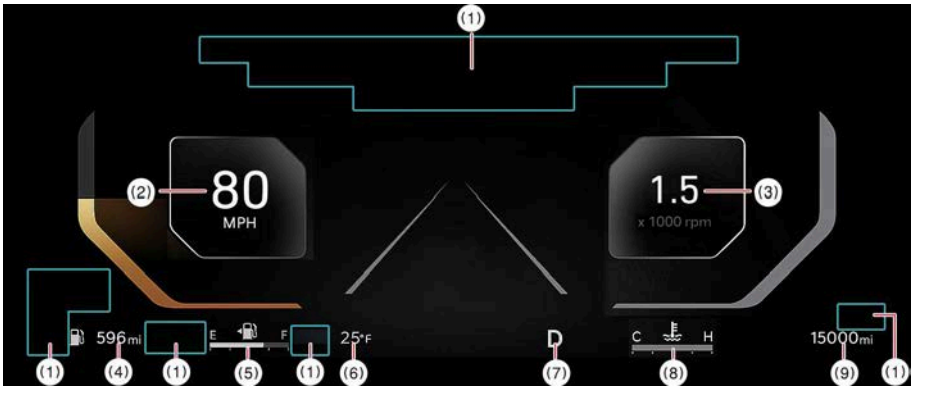
- The driving speed exceeds 3 mph (5 km/h).
- The driver's door is closed.

TIP

- While integrated memory system is being reset, if the resetting and notification sound stops incompletely, restart the resetting procedure again.
- Make sure that there are no objects around the driver's seat in advance of resetting the integrated memory system.
- After resetting the integrated memory system, the adjustment for the driver seat must be stored again to recall the memory position.

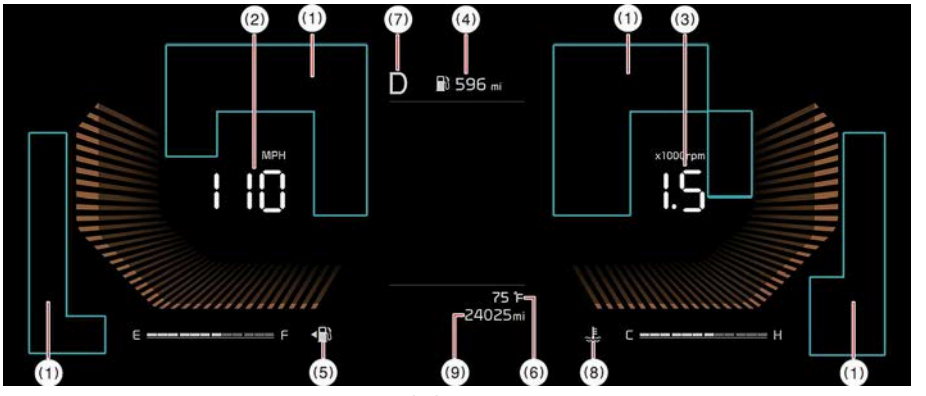
Instrument cluster

Type A



OMQ4A035147

Type B



OMQ4A035144

* The actual instrument cluster in the vehicle may differ from the illustrations.

(1) Warning and indicator lights
(2) Speedometer
(3) Tachometer
(4) Distance to empty
(5) Fuel gauge
(6) Outside temperature gauge
(7) Transmission shift indicator
(8) Engine coolant temperature gauge
(9) Odometer

Gauges

The gauges display various information, such as the speed of the vehicle and other metrics.

Speedometer

Type A



OMQ4A035103

Type B



OMQ4A035104

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

Tachometer

Type A



OMQ4A035105

Type B



OMQ4A035106

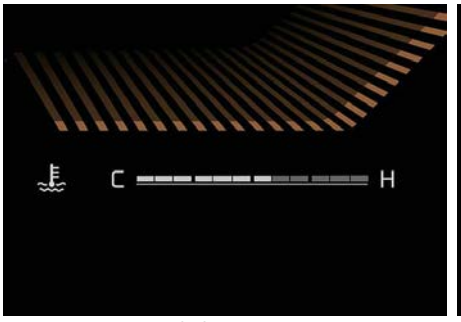
The tachometer displays the approximate number of engine revolutions per minute (rpm). Use the tachometer to select the correct shift points and to prevent lugging or over revving the engine.

NOTE

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

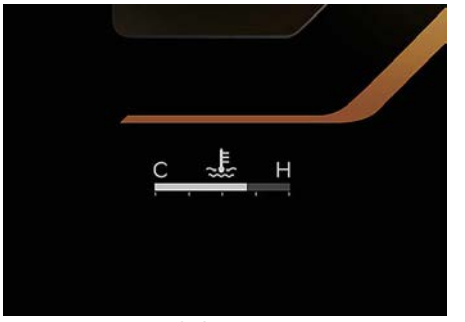
Engine coolant temperature gauge

Type A



OMQ4A035107

Type B



OMQ4A035108

This gauge displays the engine coolant temperature when the ENGINE START/STOP button is ON.

NOTE

If the gauge pointer moves beyond the normal range area toward the "H" (Hot) 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" on page 665.

WARNING

Never remove the radiator cap when the engine is hot. The engine coolant is under pressure and could severely burn you. Wait until the engine is cool before adding coolant to the reservoir.

Fuel gauge

Type A



OMQ4A035109

Type B



OMQ4A035110

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

TIP

- More information about the fuel tank can be found in "Recommended lubricants and capacities" on page 30.
- The fuel gauge has a low fuel warning light that appears when the fuel tank is nearly empty.
- On inclines or curves, the fuel gauge pointer may fluctuate and the low fuel warning light may come on earlier than usual due to the movement of fuel in the tank.

WARNING

Fuel gauge

Running out of fuel can put the vehicle occupants in danger.

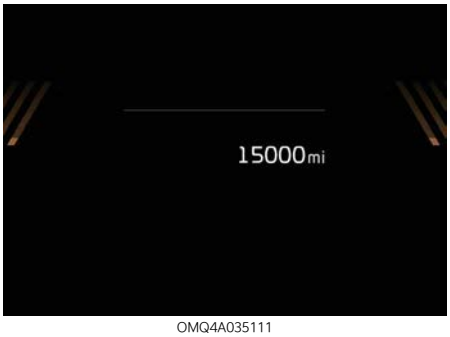
You must stop and obtain additional fuel as soon as possible if the warning light illuminates or when the gauge indicator comes close to the "E" (Empty) level.

NOTE

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

Odometer

Type A



OMQ4A035111

Type B



OMQ4A035112

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

- Odometer range: 0-999,999 mi or 0-1,599,999 km.

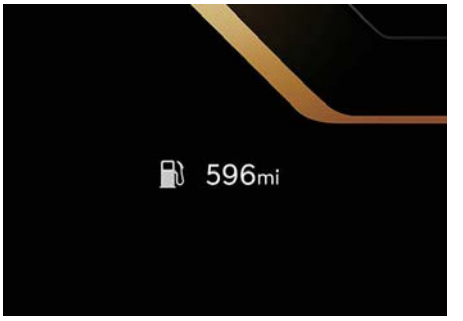
Distance to empty

Type A



OMQ4A035113

Type B



OMQ4A035114

- The distance to empty is the estimated distance you can drive the vehicle with the current amount of fuel.
  - Distance range: 1 - 9,999 mi or 1 - 9,999 km.
- If the estimated distance is below 1 mile (1.6 km), the trip computer will display "---" as the distance to empty.
- You must add more than 1.6 gallons (6 liters) of fuel for the fuel gauge to change.

TIP

- 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 only an estimate.
- The trip computer may not register additional fuel if you add fewer than 1.6 gallons (6 liters) of fuel to the vehicle.
- The fuel economy and distance to empty may vary significantly based on driving conditions, driving habits, and the condition of the vehicle.

Outside temperature gauge

Type A



OMQ4A035115

Type B



OMQ4A035116

This gauge indicates the current outside air temperatures by 1°F or (1°C).

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

To prevent distracted driving, the outside temperature on the display may not change immediately as a regular thermometer would.

To change the temperature unit from Fahrenheit to Celsius or vice versa, use the LCD Display's "User Settings" mode.

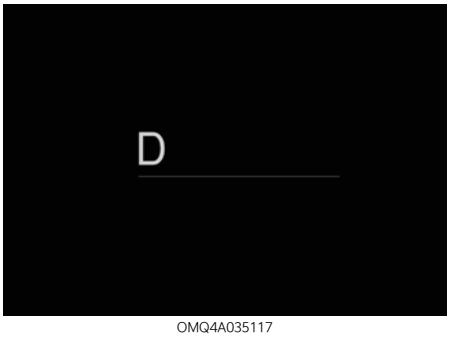
* For more details, refer to "LCD display modes" on page 164.

Transmission shift indicator

The transmission shift indicator displays gear information depending on your vehicle's transmission type.

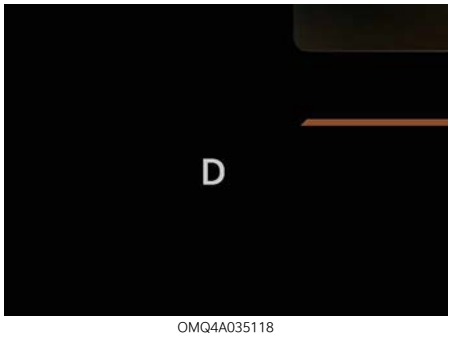
Automatic transmission shift indicator

Type A



OMQ4A035117

Type B



OMQ4A035118

The transmission shift indicator displays which automatic transmission gear is currently selected.

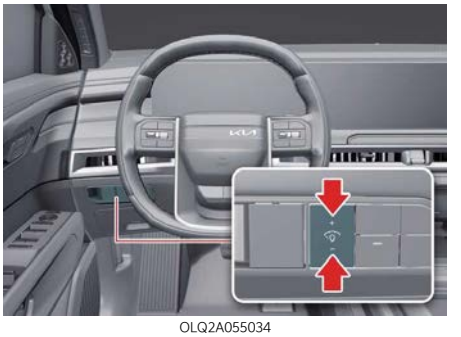
• Park: P

• Reverse: R

- Neutral: N
- Drive: D

Adjusting instrument cluster illumination

To change the brightness of the instrument panel illumination, press the illumination control button ("+" or "-") when the ENGINE START/STOP button is ON or when the tail lights are turned ON.



OLQ2A055034

WARNING

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

Warning and indicator lights

The warning and indicator lights show whether various functions are activated and indicate situations in which the driver should be careful.

Warning lights

The warning lights indicate situations that require the driver to pay extra attention.

TIP

Warning lights

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

Air bag warning light

This warning light appears:

- When you press the ENGINE START/STOP button in the ON position. The light illuminates for approximately 3-6 seconds and then disappears.
- When there is an SRS malfunction. If this happens, have the vehicle inspected by an authorized Kia dealer.

Seat belt warning light

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

* For more details, refer to "Seat belts" on page 237.

Parking brake and brake fluid warning light

This warning light appears:

- When you press the ENGINE START/STOP button in the ON position.
  - The light appears for approximately 3 seconds.
  - The light remains on if the parking brake is applied.
- When you apply the parking brake.
- When the brake fluid level in the reservoir is low.
  - If the warning light appears when you release the parking brake, the brake fluid level in the reservoir is low.

If the brake fluid level in the reservoir is low, follow these steps:

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" on page 712). Then check all brake components for fluid leaks. Do not drive the vehicle if you find a leak in the brake system, the warning light remains on, or the brakes do not operate properly.

   Have your vehicle towed to and inspected by an authorized Kia dealer.

Dual-diagonal braking system

Your vehicle is equipped with dual-diagonal braking systems, which means you still have braking on 2 wheels even if one of the dual systems should fail.
With only 1 of the dual systems working, you need to press the pedal further and harder to stop the vehicle.
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 and brake fluid warning light

Driving the vehicle with a warning light ON is dangerous. If the Parking brake and brake fluid warning light appears while the parking brake is released, it indicates that the brake fluid level is low.
Have your vehicle inspected by an authorized Kia dealer.

Anti-lock Brake System (ABS) warning light

This warning light appears:

- For approximately 3 seconds when you press the ENGINE START/STOP button in the ON position.
- If the ABS malfunctions, the normal braking system will still be operational.

  Have the vehicle inspected by an authorized Kia dealer.

EBD system warning light

These 2 warning lights appear at the same time when both the ABS and regular brake system are not working. In this case, have your vehicle inspected by an authorized Kia dealer.

WARNING

EBD system warning light

When both the ABS and Parking brake and brake fluid warning lights are on, the brake system will not work normally, and sudden braking may cause a dangerous or unexpected situation.

Avoid high speed driving and abrupt braking.

Have your vehicle inspected by an authorized Kia dealer as soon as possible.

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

This warning light appears:

- For approximately 3 seconds when you press the ENGINE START/STOP button in the ON position.
- When the EPB is malfunctioning. In this case, have the vehicle inspected by an authorized Kia dealer.

TIP

EPB warning light

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

Motor Driven Power Steering (MDPS) warning light

This warning light appears:

- For approximately 3 seconds when you press the ENGINE START/STOP button in the ON position.
- When the MDPS is malfunctioning. In this case, have the vehicle inspected by an authorized Kia dealer.

Charging system warning light

This warning light appears:

- When you press the ENGINE START/STOP button in the ON position.
- When either the alternator or electrical charging system is malfunctioning.

If either the alternator or electrical charging system is malfunctioning, follow these steps.

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.
   In this case, have the vehicle inspected by an authorized Kia dealer.

Malfunction Indicator Lamp (MIL)

This warning light appears:

- For approximately 3 seconds when you press the ENGINE START/STOP button in the ON position.
- Whenever there is a malfunction with the emission control system, engine, or vehicle powertrain. Have the vehicle inspected by an authorized Kia dealer.

NOTE

MIL

- Driving with the MIL on may cause damage to the emission control systems, which could affect drivability and fuel economy.
- If the enhanced engine protection system is activated due to a lack of engine oil, the engine will have limited power, and all available vehicle speed is reduced. If this continues, the MIL will appear.

TIP

If the oil pressure lowers due to insufficient engine oil or another cause, the engine oil pressure warning light will turn on, and an enhanced engine protection system that limits the engine's power activates. The engine warning light will turn on if you continue driving.

NOTE

If the MIL appears, catalytic converter damage is possible, which could result in loss of engine power, and accordingly vehicle speed is reduced. In this case, have the vehicle inspected by an authorized Kia dealer.

Engine oil pressure warning light

This warning light appears:

- When you press the ENGINE START/STOP button in the ON position until the engine starts.
- When the engine oil pressure is low.

If the engine oil pressure is low:

- Drive carefully to the nearest safe location and stop your vehicle.
- Turn the engine off and check the engine oil level (for more details, refer to "Changing the engine oil and filter" on page 706). If the level is low, add oil as required.
- If the warning light remains on after you add oil, or if oil is not available, have the vehicle inspected by an authorized Kia dealer. Continuing to drive with the warning light on may cause engine failure.

TIP

- When engine oil pressure decreases due to insufficient engine oil or another cause, the engine oil pressure warning light will appear.
- The enhanced engine protection system, which limits engine power, will activate. When the engine oil pressure is restored, the warning light and the enhanced engine protection system will turn off after you restart the engine.

NOTE

Engine overheating
Do not continue driving when the engine is overheated. Otherwise, the engine may be damaged.

NOTE

Engine damage
After the engine oil pressure warning light appears and stays on while the engine is running, serious engine damage may occur if you do not stop the engine immediately.

Exhaust system (GPF) warning light (Gasoline Engine)

This warning light appears:
- When there is a malfunction with the Gasoline Particulate Filter (GPF) system.
- When this warning light appears, it may turn off after you drive the vehicle.
  - Drive the vehicle for more than 30 minutes at a speed of 50 mph (80 km/h) or faster.
  - Ensure that the following conditions are all met: safe road conditions, transmission 3rd gear or above, and engine speed of 1,500-4,000 rpm.

If this warning light blinks despite following the above procedure (at this time, the LCD warning message will display), have the GPF system checked by an authorized Kia dealer.

NOTE

Gasoline engine with GPF (if equipped)
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.

Low fuel level warning light

This warning light appears when the fuel tank is nearly empty. Add fuel as soon as possible.
If the fuel tank is nearly empty, add fuel as soon as possible.

NOTE

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

Master warning light

This warning light appears in the following situations:
- LED headlamp malfunction (if equipped)
- Lamp malfunction
- High Beam Assist malfunction (if equipped)

To identify the details of the warning, look at the LCD display.
If the warning situation is solved, the master warning light will turn off.

Low tire pressure warning light

This warning light appears:

- For approximately 3 seconds when you press the ENGINE START/STOP button in the ON position.
- When 1 or more of your tires are significantly underinflated. The LCD display shows the location of any underinflated tire.)

* For more details, refer to "Tire Pressure Monitoring System (TPMS)" on page 667.

This warning light remains on after blinking for approximately 60 seconds or repeats blinking on and off at intervals of approximately 3 seconds when the TPMS malfunctions. In this case, have the vehicle inspected by an authorized Kia dealer.

* For more details, refer to "Tire Pressure Monitoring System (TPMS)" on page 667.

WARNING

Low tire pressure

- Significantly low tire pressure makes the vehicle unstable and can contribute to loss of control and increased braking distances, which may cause an accident resulting in severe injury, death, or property damage.
- Continued driving on low pressure tires will cause the tires to overheat and fail.

WARNING

Safe stopping

- The TPMS cannot alert you about 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.

LED headlamp warning light

This warning light appears:

- For approximately 3 seconds when you press the ENGINE START/STOP button in the ON position.
- When there is a malfunction with the LED headlamp.

Have the vehicle inspected by an authorized Kia dealer.

This warning light blinks:

- When there is a malfunction with an LED headlamp related part.

Have the vehicle inspected by an authorized Kia dealer.

NOTE

LED headlamp warning light

Continuous driving with the LED Headlamp Warning Light on or blinking can reduce LED headlight (low beam) life.

Forward Safety warning light

This warning light appears:

- For approximately 3 seconds when you press the ENGINE START/STOP button in the ON position.
- Yellow: When Forward Collision-Avoidance Assist Forward Safety is deselected or disabled, or when a malfunction is detected.

  If the yellow warning light remains on after the sensor has been uncovered or unblocked when you set Forward Safety, have your vehicle inspected by an authorized Kia dealer.

This warning light blinks red when the Forward Safety or Forward Cross-Traffic Safety function is operating.

* For more details, refer to "Forward Collision-avoidance Assist (FCA) (Sensor Fusion)" on page 464.

Emergency steering warning light (if equipped)

This warning light appears:

- For approximately 3 seconds when you press the ENGINE START/STOP button in the ON position.
- Yellow: When Forward Collision-Avoidance Assist Forward/Side Safety is deselected or disabled, or when a malfunction is detected.

  If the warning light remains on after the sensor has been uncovered or unblocked when Forward/Side Safety is on, have your vehicle inspected by an authorized Kia dealer.

This warning light blinks red when the Forward/Side Safety function is operating.

* For more details, refer to "Forward Collision-avoidance Assist (FCA) (Sensor Fusion)" on page 464.

Icy road warning light (if equipped)

This warning light appears when the temperature on the outside temperature gauge is below approximately 40°F (4°C) to warn the driver that the road may be icy. The outside temperature gauge blinks before the Icy Road Warning appears and the warning chime sounds once.

Washer fluid warning light

This warning light appears when the washer fluid level in the reservoir is nearly empty. In this case, you should refill the washer fluid.

Door ajar warning light

This warning light appears when a door is not closed securely.

Liftgate open warning light

This warning light appears when the liftgate is not closed securely.

Forward Attention Warning light (if equipped)

This warning light illuminates:

- For approximately 3 seconds when you press the ENGINE START/STOP button in the ON position.

- When Forward Attention Warning is disabled or a malfunction is detected. If the warning light remains on after the in-cabin camera has been uncovered or unblocked, have the vehicle inspected by an authorized Kia dealer.

This warning light blinks:

- Forward Attention Warning warns the driver to keep eyes on the road.

* For more details, refer to "Forward Collision-avoidance Assist (FCA) (Sensor Fusion)" on page 464.

Indicator lights

Electronic stability control (ESC) indicator light

This indicator light appears:

- For approximately 3 seconds when you turn the ENGINE START/STOP button to the ON position.
- When there is an ESC system malfunction. In this case, have the vehicle inspected by an authorized Kia dealer.

This indicator light blinks while the ESC is operating.

* For more details, refer to "Electronic Stability Control (ESC)" on page 393.

Electronic stability control (ESC) OFF indicator light

This indicator light appears:

- For approximately 3 seconds when you press the ENGINE START/STOP button in the ON position.
- When you deactivate the ESC system by pressing the ESC OFF button.

* For more details, refer to "Electronic Stability Control (ESC)" on page 393.

Auto stop indicator light

This indicator light appears when the engine enters Idle Stop mode in the ISG (Idle Stop and Go) system.

This indicator light blinks for 5 seconds when the engine starts automatically.

* For more details, refer to "Idle Stop and Go (ISG)" on page 403.

> **TIP**
>
> When the engine starts automatically with the ISG system, warning lights such as the ABS, ESC OFF, MDPS, or parking brake warning light may illuminate for a few seconds. This is due to the low battery voltage and does not indicate a system malfunction.

AUTO HOLD indicator light

This indicator light appears:

- White when you activate the Auto Hold system by pressing the AUTO HOLD button.
- Green when you stop the vehicle completely by engaging the brake pedal with the Auto Hold system activated.
- Yellow when there is a malfunction with the Auto Hold system. In this case, have the vehicle inspected by an authorized Kia dealer.

* For more details, refer to "AUTO HOLD" on page 386.

Immobilizer indicator light (with smart key)

This indicator light appears for up to 30 seconds when the vehicle properly detects the smart key inside of the vehicle while the ENGINE START/STOP button is in the ACC or ON position. The indicator light will disappear after you start the engine.

This indicator light blinks for a few seconds when the smart key is not in the vehicle. You will not be able to start the engine.

This indicator light appears for 2 seconds then disappears when the vehicle cannot detect the smart key in the vehicle and the ENGINE START/STOP button is ON. In this case, have the vehicle inspected by an authorized Kia dealer.

This indicator light blinks:

- When the smart key battery is weak. You will not be able to start the engine unless you press the ENGINE START/STOP button with the smart key. (For more details, refer to "Immobilizer system" on page 46).
- When the immobilizer system is malfunctioning. In this case, have the vehicle inspected by an authorized Kia dealer.

Turn signal indicator light

This indicator light blinks when you engage the turn signal.

The turn signal system may be malfunctioning and should be inspected by an authorized Kia dealer if the indicator light does any of the following:

- The indicator light appears but does not blink.
- The indicator light blinks more rapidly.
- The indicator light does not appear at all.

Low beam indicator light

This indicator light appears when the headlights are ON.

High beam indicator light

This indicator light appears:

- When the high beam lights are ON.
- When the turn signal is set to Flash-to-Pass.

High Beam Assist indicator light

This indicator light appears:

- When the light switch is set to AUTO and the high beam lights are ON.
- If your vehicle detects oncoming vehicles or vehicles ahead, High Beam Assist will automatically switch the headlight from high beam to low beam.

* For more details, refer to "High Beam Assist (HBA)" on page 182.

Light ON indicator light

This indicator light appears when the taillight or headlight is ON.

Front fog indicator light (if equipped)

This indicator light appears when the front fog lights are ON.

Lane Safety indicator light

This indicator light appears:

- For approximately 3 seconds when you press the ENGINE START/STOP button in the ON position.
- Gray when Lane Keeping Assist operating conditions are not satisfied.
- Green when Lane Keeping Assist operating conditions are satisfied.
- Yellow when Lane Safety is disabled or a malfunction is detected.

  If the yellow warning light remains illuminated after the sensor has been uncovered or unblocked when Lane Safety is ON, have your vehicle inspected by an authorized Kia dealer

The indicator light blinks green when Lane Keeping Assist is operating.

* For more details, refer to "Lane Keeping Assist (LKA)" on page 493.

Downhill Brake Control (DBC) indicator light

This indicator light appears:

- For approximately 3 seconds when you press the ENGINE START/STOP button in the ON position.
- When you activate the system by pressing the DBC button.

This indicator light blinks when DBC is operating.

This indicator light appears yellow when the DBC system is malfunctioning.

In this case, have your vehicle inspected by an authorized Kia dealer.

* For more details, refer to "Downhill Brake Control (DBC)" on page 398.

All Wheel Drive (AWD) LOCK indicator light

This indicator light appears:

- For approximately 3 seconds when you press the ENGINE START/STOP button in the ON position.
- When you select **AWD LOCK** mode by pressing the **AWD LOCK** button. **AWD LOCK** mode increases drive power when driving on wet pavement, snowy roads, or offroad.

NOTE

AWD LOCK mode

Do not use **AWD LOCK** mode on dry paved roads or highways, as this can cause noise, vibration, or damage to **AWD** related parts.

Drive mode indicator light (ECO/SPORT/MY) (if equipped)

This indicator light appears according to which drive mode you select.

For more details, refer to "Drive mode integrated control system" on page 411.

Inattentive Driving indicator light (if equipped)

This indicator light appears:

- For approximately 3 seconds when you press the ENGINE START/STOP button in the ON position.
- Yellow when the Driver Attention Warning is disabled or malfunctioning.

  If the indicator light remains yellow after you have uncovered or unblocked the front view camera, have your vehicle inspected by an authorized Kia dealer.

This indicator light blinks yellow when the Driver Attention Warning recommends that you take a break from driving.

* For more details, refer to "Driver Attention Warning (DAW)" on page 542.

Intelligent Speed Limit Assist indicator light (if equipped)

This indicator light appears:

- For approximately 3 seconds when you press the ENGINE START/STOP button in the ON position.
- Yellow when Intelligent Speed Limit Assist is OFF, disabled, or malfunctioning.
- When the Intelligent Speed Limit Assist system is ON, the indicator displays the speed limit. When the vehicle is speeding, the speed limit displays red.

* For more details, refer to "Intelligent Speed Limit Assist (ISLA)" on page 535.

Highway Lane Change Assist indicator light (if equipped)

This indicator light appears:

- Green when Highway Lane Change Assist is ready to operate.
- Gray when Highway Lane Change Assist is on standby.

This indicator light blinks:

- Green when Highway Lane Change Assist is operating.
- White when Highway Lane Change Assist is canceled.

* For more details, refer to "Highway Driving Assist (HDA)" on page 586.

Lane Following Assist indicator light

This indicator light appears:

- When you press the Lane Following Assist button ON.
- Yellow when there is a problem with the Lane Following Assist function.

* For more details, refer to "Lane Following Assist (LFA)" on page 502.

LCD display

You can change the LCD display modes using the control buttons.

LCD display control



OLQ2A055035

Switch	Control	Action
Mode (1)	Short Press	Changing view modes
OK (2)	Short Press	Operating additional functions
	Long Press	Resetting menu information
Up/Down (3)	Short Roll	Searching utility information

LCD display modes

The LCD display has 3 modes. You can switch modes by pressing the Mode button.

View	Description
Driving Assist view	Displays information related to the Driver assistance system
Navigation view	Displays information related to the navigation system
Utility information view	Displays information related to driving, warnings, and so on

Driving assist view



OLQ2A005097

This mode displays the state of:

- Lane Keeping Assist
- Smart Cruise Control
- Lane Following Assist

* For more details, refer to "Driver assistance guide" on page 457.

Navigation view



OMQ4A035120

This mode displays the navigation state.

Utility information view

Low pressure warning display



OLQ2A115031

(1) **Low tire pressure**

This warning message displays when the tire pressure is low and indicates which tire is low.
* For more details, refer to "Tire Pressure Monitoring System (TPMS)" on page 667.

Fuel economy

This information is always displayed at the bottom center of the Full LCD information cluster.



OMQ4A035146

(1) **Average fuel economy**

(2) **Instant fuel economy**

Average fuel economy

- Average fuel economy is calculated using the total driving distance and fuel consumption of the last trip.
  - Fuel economy range: 0-99.9 mpg or km/L, L/100 km

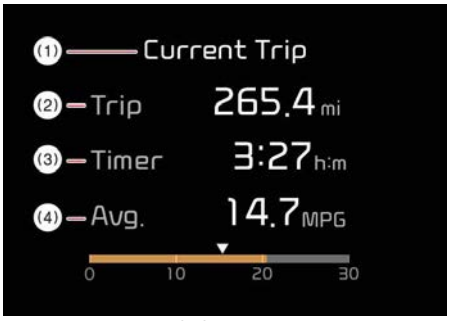
> **TIP**
>
> For more accurate calculation, the average fuel economy is not displayed if you do not drive the vehicle for more than 10 seconds or 0.03 miles (50 m) after you turn the ENGINE START/STOP button ON.

Instant fuel economy

- This mode displays the instant fuel economy during the last few seconds when the vehicle speed is more than 6.2 mph (10 km/h).
  - Fuel economy range: 0.0-50.0 mpg or 0.0-30 km/L, L/100 km

Drive Info display

The Drive Info display shows the trip distance, average fuel efficiency, and total driving time once per ignition cycle.

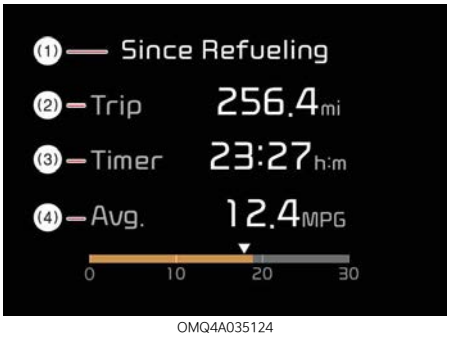


OMQ4A035121

(1) **Current Trip**
(2) **Trip**
(3) **Timer**
(4) **Avg.**

- After the vehicle runs for more than 0.19 miles (300 m), the Fuel efficiency is calculated.
- The information will automatically reset when the driver's door is opened after the ignition is turned off, or approximately 3 minutes after the ignition is turned off.
- If you press the "OK" button for more than approximately 1 second after the driving information is displayed, the information will be reset.
- Information is accumulated when the engine is running, even if the vehicle is not in motion.

Information since refueling



OMQ4A035124

(1) **Since Refueling**
(2) **Trip**
(3) **Timer**
(4) **Avg.**

This display shows the trip distance, the average fuel efficiency, and the instant fuel efficiency (or the total driving time) since refueling.

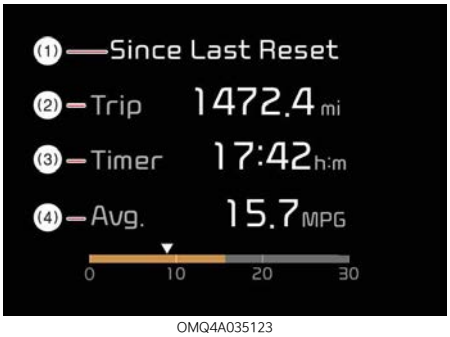
- After the vehicle runs for more than 0.19 miles (300 m), the information since refueling is calculated.
- If you press the "OK" button for more than 1 second after the information since refueling is displayed, the information is reset.
- When driving after refueling, the information is automatically reset.
- Information is accumulated when the engine is running, even if the vehicle is not in motion.

TIP

The vehicle must be driven for at least 0.19 miles (300 m) since the last ignition cycle before the average accumulated driving information is recalculated.

Accumulated driving information mode

This display shows the accumulated trip distance, the average fuel efficiency, and the total driving time.



OMQ4A035123

(1) **Since Last Reset**
(2) **Trip**
(3) **Timer**
(4) **Avg.**

- After the vehicle runs for more than 0.19 miles (300 m), the Accumulated information is calculated.
- If you press the "OK" button for more than 1 second after the Cumulative Information is displayed, the information will be reset.
- Information is accumulated when the engine is running, even if the vehicle is not in motion.

Other view modes

Master warning mode



N_CT25Z021

This mode informs you of the following situations:

- Driver assistance system malfunction, limitation, or a radar or camera interference (if equipped)
- LED headlamp malfunction

- Lamp malfunction
- TPMS (Tire Pressure Monitoring System) failure, low tire pressure, and so on.

The Master Warning icon (⚠) will appear. If the warning situation resolves, the master warning light will turn off and the Master Warning icon will disappear.

Service mode

This mode reminds you of scheduled maintenance information.



OCL4M035116N

(1) **Service in**

Service interval

The vehicle calculates and displays when you need a scheduled maintenance service (based on mileage or days).
If the remaining mileage or time reaches 900 miles (1,500 km) or 30 days, the "Service Interval" message displays for several seconds each time you turn the ENGINE START/STOP button to the ON position.

Service required

If you do not have your vehicle serviced according to the default service interval, the "Service required" message displays for several seconds each time you turn the ENGINE START/STOP button to the ON position.

TIP

Mileage and days may be incorrect in the following situations:
- The battery cable is disconnected.
- The battery is discharged.

LCD display messages

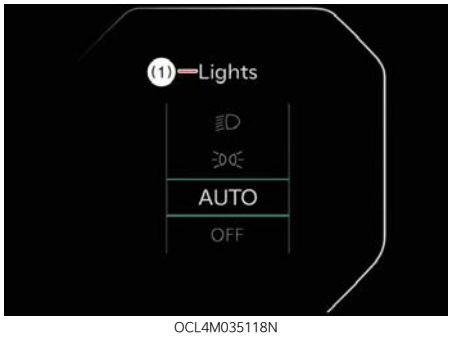
Door, hood, liftgate, or sunroof open



OLQ2A005096

This warning displays when a door, the hood, the liftgate, or the sunroof is open and indicates which is open.

Lights mode



OCL4M035118N

(1) **Lights**

This indicator displays which exterior light is selected using the lighting control.
You can activate or deactivate the Wiper/Lights Display function in the information cluster LCD display's User Settings mode.

Wiper mode



N_CT25_C00_170_A

(1) **Front Wiper**

This indicator displays which wiper speed is selected using the wiper control.
You can activate or deactivate the Wiper/Lights Display function in the information cluster LCD display's User Settings mode.

Low washer fluid

This warning message displays when the washer fluid level in the reservoir is nearly empty.
Refill the washer fluid reservoir.

Engine overheated

This warning message displays when the engine coolant temperature is above 248°F (120°C).
This means that the engine is overheated and may be damaged.
* If your vehicle is overheated, refer to "If the engine overheats" on page 665.

Ice possible. Drive with care.

This warning appears when the road may be icy.
When the temperature on the outside temperature gauge is below approximately 40°F (4°C), the warning light and outside temperature gauge will blink 5 times, then remain lit. A warning chime will sound once.

⚠ WARNING

If the icy road warning appears while you are driving, you should drive even more attentively and cautiously. Refrain from speeding, rapid acceleration, sudden braking, sharp turning, and other potentially dangerous driving.

Low engine oil

This warning message appears when the engine oil level is insufficient.
For more details, refer to "Engine oil (Gasoline)" on page 705.

TIP

When the engine oil level warning light appears, ensure that you have followed the engine oil replacement maintenance schedule in the owner's manual before replenishing the oil. If you have not followed the schedule, you must replace the engine oil.

Engine oil change due soon. Reset oil life after oil change.

This warning message appears when the remaining engine oil life reaches 5% or below. Refill the engine oil.
For more details, refer to "Engine oil (Gasoline)" on page 705.

Engine oil change due now. Reset oil life after oil change.

This warning message appears when the remaining engine oil life reaches 1% or below. Replace the engine oil immediately through an authorized Kia dealer.
For more details, refer to "Engine oil (Gasoline)" on page 705.

Low key battery (for smart key system)

This warning message appears if the smart key's battery is discharged when you turn the ENGINE START/STOP button to the OFF position.

Press START button while turning wheel (for smart key system)

This warning message appears if the steering wheel does not unlock normally when you press the ENGINE START/STOP button. To resolve the issue, press the ENGINE START/STOP button while turning the steering wheel right and left.

Steering wheel not locked (for smart key system)

This warning message appears if the steering wheel does not lock when you turn the ENGINE START/STOP button to the OFF position.

Check steering wheel lock system (for smart key system)

This warning message appears if the steering wheel does not lock normally when you turn the ENGINE START/STOP button to the OFF position.

Key not in vehicle (for smart key system)

This warning message appears if the smart key is not in the vehicle when you press the ENGINE START/STOP button. Always have the smart key with you.

Key not detected (for smart key system)

This warning message appears if the smart key is not detected when you press the ENGINE START/STOP button.

Shift to P or N to start engine (for smart key system)

This warning message appears if you try to start the engine without the gear in P (Park) or N (Neutral).

Press brake pedal to start engine (for smart key system)

This warning message appears if the ENGINE START/STOP button changes to the ACC position

twice when you press the button repeatedly without engaging the brake pedal. Engage the brake pedal to start the engine.

Battery discharging due to external electrical devices

The vehicle can detect self-discharge of the battery due to overcurrent generated by unauthorized electrical devices, such as a instrument panel camera.

If the warning continues after you disconnect external electrical devices, have your vehicle inspected by an authorized Kia dealer.

Press START button again (for smart key system)

- This warning message appears if you cannot operate the ENGINE START/STOP button due to a problem with the button system.
- You can start the engine by pressing the ENGINE START/STOP button once more.
- If the warning appears every time you press the ENGINE START/STOP button, have the vehicle inspected by an authorized Kia dealer.

Press START button with key (for smart key system)

- This warning message appears if you press the ENGINE START/STOP button while the warning message "Key not detected" is illuminated.
- The immobilizer indicator light will blink.

Headlights are Off

This warning message appears if the headlights are OFF when you are in dark surroundings.

Head-Up DIsplay (HUD) (if equipped)

The Head-Up Display is a transparent display that projects an image of certain information from the instrument cluster and navigation system onto the windshield glass.



OLQ2A005115

- The head up display image on the HUD screen may be hard to see when:
  - Sitting posture is improper.
  - Wearing polarized sunglasses.
  - There is an object on the cover of the head up display.
  - Driving on a wet road.
  - An inadequate lighting is turned on inside the vehicle.

- Any light comes from the outside.
- Wearing inappropriate eyeglasses.

- If the head up display image is hard to see, adjust the height, rotation or illumination of the head up display on the LCD display.
- If the head up display needs inspection or repair, visit an authorized Kia dealer.

WARNING

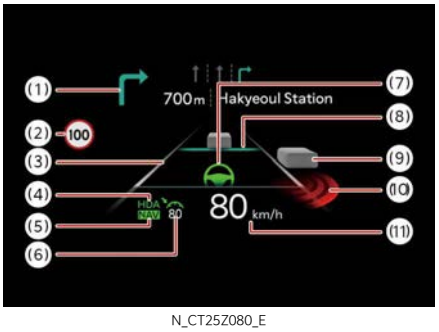
Head-Up Display

- Do not add tint or other coating to the windshield. The Head-up display image may be obscured.
- Do not place any accessories on the instrument panel or attach any objects on the windshield glass.
- Blind-Spot Collision-Avoidance Assist is a supplemental function to assist when changing lanes. It is not a substitute for the driver turning the head and looking directly to see that the adjacent lane is safe to enter. Do not rely only on the Blind-Spot Safety when changing lanes. Always pay attention to drive safely.

CAUTION

When replacing the front windshield glass of the vehicles equipped with the Head-Up Display, replace it with a windshield glass designed for the Head-Up Display operation. Otherwise, duplicate images may be displayed on the windshield glass.

Head Up Display Information



N_CT25Z080_E

(1) Turn By Turn (TBT) navigation information
(2) Traffic information
(3) Lane Safety information
(4) Highway Driving Assist information (if equipped)
(5) Highway Auto Speed Change information (if equipped)
(6) SCC set speed information (if equipped)
(7) Lane Following Assist information (if equipped)
(8) SCC vehicle distance information (if equipped)
(9) Surrounding vehicle information (if equipped)
(10) Blind-Spot Safety information
(11) Speedometer information

Head-Up Display Setting

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

1. Display height
2. Rotation
3. Brightness
4. Content selection

Lighting

This vehicle is equipped with a variety of lights to illuminate both the interior and exterior of the vehicle.

NOTE

To prevent the battery from discharging, do not leave the headlamps or interior lights on for a prolonged period of time while the vehicle is not running.

Battery saver function

The purpose of this feature is to prevent the battery from discharging if the lights are left on. The function automatically shuts off the position lamps once the engine is off and the driver's door is opened.

The position lamps, however, will stay on if you operate the light switch after turning the vehicle off, even when the driver's door is open.

To keep the lights on after turning off the vehicle, turn the position lamps off and on again using the headlamp switch on the steering column.

Headlight delay function

If you set the vehicle to OFF or to ACC position with the headlamps on, the headlamps and position lamps will remain on for approximately 5 minutes.

When the vehicle is off and the driver's door is opened and shut, the headlamps and position lamps will turn off after 15 seconds.

You can turn off the headlamps and position lamps by pressing the smart key's lock button twice or turning the light switch to the OFF or AUTO position. Keep in mind that the headlamps will not turn off if you turn the light switch to the AUTO position when it is dark outside.

You can activate or deactivate the headlight delay function in the **Settings** menu on the infotainment system screen. If your vehicle is equipped with additional navigation features, refer to the infotainment system manual supplied separately.

TIP

If the driver exits the vehicle through any door other than the driver's, the battery saver function will not operate, and the headlight delay function will not turn off automatically.

In this case, the 12V battery may discharge. To avoid 12V battery discharge, turn the headlamps off manually using the headlight switch before exiting the vehicle.

Daytime running light (DRL)

The DRL can make it easier for others to see the front of your vehicle during the day.

The DRL can be helpful in many different driving conditions, especially after dawn and before sunset.

The DRL will turn its DRL lamp off when:

- The light switch is set to AUTO and the headlamps and taillight are on.

- The vehicle is in OFF position.
- The parking brake is engaged.
- The front fog lamps are on. (if equipped)

Reverse guide light (if equipped)

When the vehicle is in R (Reverse), the reverse light turns on and the reverse guide light illuminates the ground behind the vehicle. This light informs nearby drivers that your vehicle is backing up.

NOTE

The length of the light on the left and right sides may vary depending on the number of passengers, the load, or the vehicle's tilt condition.

Lighting control

The light switch has a headlight and a position lamp setting.

(1) Headlamps ON
(2) Position lamp and taillight
(3) AUTO
(4) OFF



OLQ2A055001

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

Position Lamp & Taillight



OLQ2A055002

When the light switch is in the lamp position, the front position lamp, taillight, and the license plate lamp will turn on.

Headlight (Low Beam)



OLQ2A055003

When the light switch is in the headlight position, headlight (low beam), taillight and license plate lamp will turn on.

> **TIP**
>
> The vehicle must be in the ON position to turn on the headlights.

Headlight (High Beam)



OLQ2A055005



OLQ2A055006

- To turn on the high beam headlights, push the lever away from you.
  When the high beam headlights are turned on, the lever will return to its original position, and the high beam indicator on the instrument cluster will illuminate.
- To flash the high beam headlamps, pull the lever toward you.
  The lever will return to the normal (low beam) setting when released. The headlight switch does not need to be on to flash the high beam headlights.

WARNING

High beams

Do not use the high beam headlight when there are other vehicles in front of or approaching your vehicle, as the light may obstruct the other driver's vision.

Auto light



OLQ2A055004

When the light switch is in the AUTO light position, the taillights and headlights will turn on or off automatically depending on the amount of ambient light.

Light switch settings

Setting	Result
Position lamp and taillight   OLQ2A055002	Front position lamp, taillights, and license plate lamp are on. **TIP** The vehicle must be in the ON position to turn on the headlights.

Setting	Result
Headlight (low beam)   OLQ2A055003	Low beam headlight, taillight, and license plate lamp are on.
AUTO light  OLQ2A055004	Taillights and headlights turn on or off automatically depending on the amount of ambient light.

NOTE

- The sensor (1) is located on the front windshield for optimal AUTO light setting performance.



OLQ2A055036

- Do not clean the sensor with a window cleaner, as it may leave a thin film that could interfere with sensor operation.
- If your vehicle has a window tint or other metallic coating on the front windshield, the AUTO light system may not work properly.

Turn and lane change signal operation



OLQ2A055007

The vehicle must be in the ON position for the turn signals to function.

- To engage the turn signal, move the lever up or down (1).
  The green arrow indicators on the instrument panel indicate which turn signal is operating.
  The turn signal will cancel itself after you complete a turn. If the indicator continues to flash after a turn, manually return the lever to the OFF position.
- To signal a lane change, move the turn signal lever slightly and hold it in position (2).
  The lever will return to the OFF position when released.

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 need to be replaced.

One-touch lane change function

To use the one-touch lane change function, move the turn signal lever slightly, then release it. The lane change signals will blink 3, 5, or 7 times.

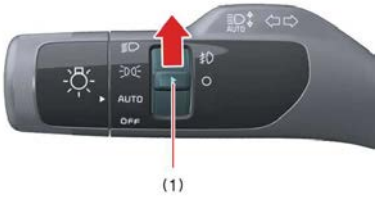
Select **Settings > Vehicle > Lights > One Touch Turn Signal** from the infotainment system to activate or deactivate the one-touch lane change function or choose the length of blinking (3, 5, or 7 times).

TIP

If an indicator flash is abnormally quick or slow, a bulb may have a poor electrical connection in the circuit, or it may be burned out and need to be replaced.

Front fog light operation (if equipped)

Front fog lights are designed to improve visibility in fog, rain, or snow.



OLQ2A055008

- To turn on the fog lights, turn the fog light switch (1) ON after turning the headlights on.
- To turn off the fog lights, turn the fog light switch (1) to the OFF position.

TIP

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

High Beam Assist (HBA)



OLQ2A105003

The HBA function automatically adjusts the headlight range (switches between high beam and low beam) depending on the brightness of detected vehicles and certain road conditions.

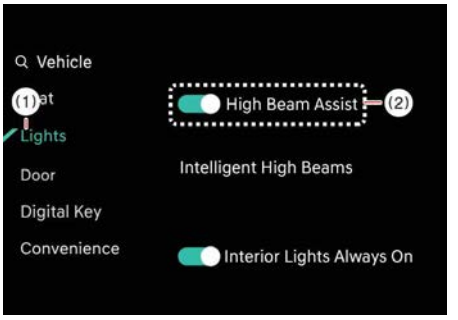
Detection sensor

Please refer to "Detecting sensor(s)" on page 461 for the applicable sensors and their locations.

TIP

- Always keep the front view camera in good condition to maintain optimal performance of High Beam Assist.
- For more information about the front view camera, refer to "Forward Collision-avoidance Assist (FCA) (Sensor Fusion)" on page 464.

High Beam Assist (HBA) setting



OCL4M035130N

(1) **Lights**

(2) **High Beam Assist**

With the vehicle ON, select **Setup > Vehicle > Lights > High Beam Assist** in the **Settings** menu to turn on the High Beam Assist function.

WARNING

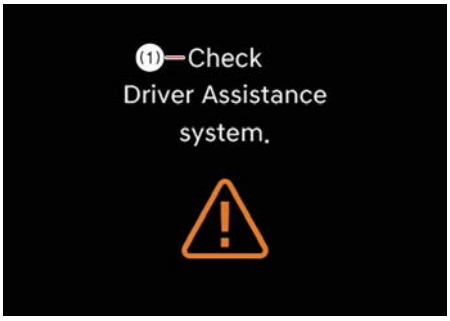
For your safety, change the settings only after parking the vehicle at a safe location.

High Beam Assist (HBA) operation

- After selecting **High Beam Assist** in the Settings menu, the function operates as follows:
  - To enable the function, set the headlight switch to AUTO and push the headlamp lever toward the instrument cluster. The HBA (AUTO) indicator light will appear on the instrument cluster.
  - When HBA is enabled, the high beam will turn on when the vehicle speed is above 20 mph (30 km/h). The high beam will not turn on when the vehicle speed is below 12 mph (20km/h).
  - The high beam ( ) indicator light will appear on the cluster when the high beam is on.
- If you use the headlight lever or switch when HBA is operating, the function operates as follows:
  - To turn the high beam on without canceling HBA, pull the headlight lever toward you when the high beam is off. When you let go of the headlight lever, it will move to the middle and the high beam will turn off.
  - To turn the high beam on and cancel HBA, push the light switch toward the instrument cluster.
  - If you change the headlight switch from AUTO to another setting, HBA will turn off and the corresponding lamp will turn on.
- When HBA is operating, the headlight switches from high to low beam in the following situations:
  - When an oncoming vehicle headlight is detected.
  - When the taillight of a vehicle in front is detected.
  - When the headlight or taillight of a motorcycle or bicycle is detected.
  - When the surrounding ambient light is bright enough that high beams are not required.
  - When streetlights or other lights are detected.

High Beam Assist malfunction and limitations

High Beam Assist (HBA) malfunction



OCL4M055096N

(1) **Check Driver Assistance system.**

When HBA is not working properly, the Master warning light (⚠) appears on the instrument cluster, along with a warning message that lasts for several seconds. Have the function inspected by an authorized Kia dealer.

High Beam Assist (HBA) limitations

HBA may not work properly in the following situations:

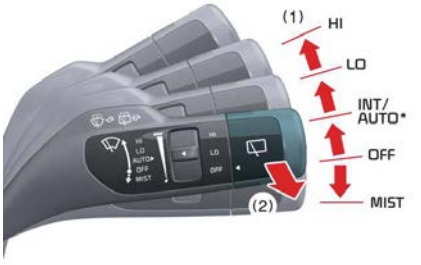
- Light from another vehicle is not detected for any reason.
- The headlights are dirty with dust, snow, or water.
- The headlight is off but the fog light is on.
- Your vehicle detects a lamp that is shaped like a vehicle headlight.
- The headlamps are damaged or incorrectly repaired.
- The headlamps are not aimed properly.
- You are driving on a narrow, curved, rough, or steep road.
- You are driving on a crossroad or curved road and a vehicle in front of you is partially visible.
- There is a traffic light, reflective or flashing sign, or mirror ahead.
- There is a temporary reflector or flash ahead from a construction area.
- Road conditions are wet, icy, snowy, or otherwise poor.
- A vehicle suddenly appears from around a curve.
- A vehicle is tilted because of a flat tire or is being towed.
- Light from a vehicle is not detected because of exhaust fumes, smoke, fog, snow, or other obstructions.

TIP

- The HBA function is only for your convenience and may not work properly at times. It is the responsibility of the driver to maintain safe driving practices and always watch the road.
- HBA may not operate for 15 seconds after you start the vehicle or after you initialize or restart the front view camera.
- When HBA does not operate normally, manually switch the headlights between high and low beam.

Wipers and washers

The wipers and washers remove foreign substances from the windshield and rear window to help maintain visibility.



OLQ2A055010



OLQ2A055011



OLQ2A055012

(1) Wiper speed control
- MIST: Single wipe
- OFF: Off
- INT: Intermittent wipe
- AUTO*: Automatically controlled wipe
- LO: Low wiper speed
- HI: High wiper speed

(2) Wash with brief wipes (pull lever toward you)
(3) Intermittent control and AUTO control wipe time adjustment*
(4) Rear wiper/washer control
- HI: Continuous wipe
- LO: Intermittent wipe
- OFF: Off

(5) Rear wash with brief wipes (push lever away from you)

* : if equipped

Windshield wipers

When the vehicle is in ON position, operate the windshield wipers as follows:

- MIST: For a single wiping cycle, move the lever to this position and release it. If the lever is held in this position, wipers will operate continuously.
- OFF: Wiper is not in operation.
- INT: Wiper operates intermittently at the same wiping intervals. Use this mode in light rain or mist. To change the speed setting, turn the speed control knob.
- LO: Normal wiper speed
- HI: Fast wiper speed

WARNING

Do not use the washer in freezing temperatures before warming the windshield with the defroster, as the washer solution could freeze on the windshield and obscure your view, leading to an accident resulting in severe injury, death, or property damage.

NOTE

If there is a heavy accumulation of snow or ice on the windshield, do not drive until you defrost the windshield for about 10 minutes, or remove the snow and ice before using the windshield wipers to ensure proper operation. If you do not remove the snow and ice before using the wiper and washer, you may damage the wiper and washer system.

NOTE

- If a communication malfunction occurs in the wiper system and the wipers do not operate normally, set the wiper switch to the LO position. The wipers will operate at a constant LO speed. If this occurs, have your vehicle checked by an authorized Kia dealer.
- When the wiper switch is in the HI position, the wiper speed may gradually decrease as rainfall lessens and friction increases. When rainfall increases again and friction decreases, the wiper speed will return to normal.

TIP

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

TIP

If you operate the wipers while driving on snowy roads, the wipers may stop due to snow buildup on your windshield. This is normal and not a failure, but a safety feature to prevent vehicular accidents and wiper damage from overloading the wiper motor. If the wipers stop, remove snow accumulated on the top or bottom of the windshield before using the wipers.

AUTO control (if equipped)

(1) Wiper speed control switch



OLQ2A055013

The rain sensor, located on the upper end of the windshield, senses the amount of rainfall and controls the wiping cycle at the proper interval. The more it rains, the faster the wiper operates. When the rain stops, the wiper stops.

To change the speed setting, turn the speed control switch (1).

If you set the wiper switch to AUTO when the vehicle is in ON position, the wiper will operate once to check the system. Set the wiper to OFF when not in use.

WARNING

When the vehicle is in ON position and the windshield wiper switch is set to AUTO, follow these precautions to avoid any injury to your hands or other body parts:

- Do not touch the upper end of the windshield glass facing the rain sensor.
- Do not wipe the upper end of the windshield glass with a damp or wet cloth.
- Do not put pressure on the windshield glass.

NOTE

- When washing the vehicle, set the wiper to OFF to stop automatic wiper operation.
  The wiper may operate and be damaged if you set it to AUTO while washing the vehicle.
- Do not remove the sensor cover located on the upper end of the passenger side windshield glass. This may cause damage to the system parts that may not be covered by your vehicle warranty.
- When starting the vehicle in winter, set the wiper to OFF. Otherwise, the wipers may operate, and ice may damage the windshield wiper blades. Always remove all snow and ice and defrost the windshield properly before operating the windshield wipers.
- If you tint the windshield, be careful not to let any fluid get into the sensor in the top center of the front windshield, as the fluid may damage related parts.

Windshield washer operation



OLQ2A055014

1. Turn the wiper speed control switch to OFF.
2. Gently pull the lever toward you to spray washer fluid on the windshield and run the wipers 1-3 cycles when the windshield is dirty. The spray and wiper operation will continue until you release the lever.

   If the windshield washer does not work, check the washer fluid level. If the fluid level is not sufficient, you will need to add appropriate non-abrasive windshield washer fluid to the washer fluid reservoir.

   The reservoir filler neck is in the front of the engine compartment on the passenger side.

WARNING

Do not use the washer in freezing temperatures before warming the windshield with the defroster, as the washer solution could freeze on the windshield and obscure your view.

NOTE

To prevent possible damage to the washer pump, do not operate the washer when the fluid reservoir is empty.

NOTE

- 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 blades, do not use gasoline, kerosene, paint thinner, or other solvents on or near the wiper blades.
- To prevent damage to the wiper arms and other components, do not attempt to move the wipers manually.
- To prevent damage to the wipers and washer system, use washer fluid containing anit-freeze in the winter season or cold weather.

Rear windshield wiper and washer operation

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

- To operate the rear wiper and washer, turn the switch to the desired position.



OLQ2A055015

  - HI: Normal wiper operation
  - LO: Intermittent wiper operation
  - OFF: Wiper is not in operation
- Push the lever away from you to spray rear washer fluid and to run the rear wipers several times.



OLQ2A055016

The spray and wiper operation will continue until you release the lever.
When you activate the front wiper and shift to R (Reverse), the rear wiper will activate once to provide better visibility.
The rear wiper operates while the vehicle is in R (Reverse) with the front wiper on.
Select **Setup > Vehicle > Convenience > Auto Rear Wiper (in R)** from the infotainment system.

Camera cleaning system

A contaminated rear camera may cause the displayed image to appear blurred. Use the washer to clean the camera.



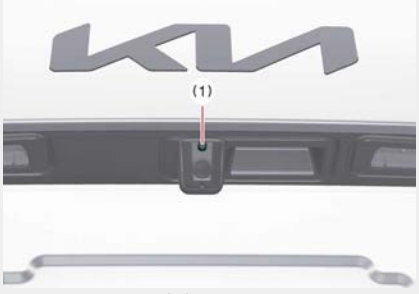
OLQ2A055016

To spray washer fluid onto the camera, push the wiper lever toward the instrument cluster.

- The rear window wiper will operate and washer fluid will be sprayed onto both the rear window and the camera.
- If you push and hold the lever, the wipers will continue to operate and washer fluid will be sprayed repeatedly.
- Release the lever once the camera is cleaned. The washer will stop spraying.
- If the dirt on the camera lens is not removed, clean it with a soft cloth or a cotton swab moistened with water.

WARNING

- Be careful not to clog the nozzle when washing or maintaining the vehicle.



OLQ2A055018



OLQ2A055037

(1) Wide-rear view camera

(2) Digital center mirror (if equipped)

- If the nozzle becomes contaminated, remove the dirt by wiping it with a soft cloth or a cotton swab moistened with water.

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Seating and safety restraints

Important safety precautions

You will find many safety precautions and recommendations throughout this section and 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. Even though your Kia is equipped with air bags, ALWAYS fasten your seat belt and make sure all of your passengers have properly fastened their seat belts or restraints before placing your Kia in motion.

Restrain all children

All children under age 13 should be properly restrained in a rear seat, not the front seat. Each infant and small child should be restrained in an appropriate child restraint. Larger children should use a booster seat with the lap/shoulder belt until they can use the seat belt properly without a booster seat. Please refer to applicable State and Federal laws for child seating requirements.

Air bag hazards

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

Driver distraction

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

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

- ALWAYS set up your mobile devices (such as MP3 players, phones, navigation units, and so on) when your vehicle is parked or safely stopped.
- ONLY use your mobile device when allowed by law, and when conditions permit safe use. NEVER text or email while driving. Most states have laws prohibiting drivers from texting. Some states and cities also prohibit drivers from using handheld phones.
- NEVER let the use of a mobile device distract you from driving. You have a responsibility to your passengers and others on the road to always drive safely, with your hands on the wheel and 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. Serious injuries can also occur at lower speeds. Never drive faster than what is safe for current driving conditions, regardless of the maximum speed posted.

Keep your Kia 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 pressure and condition frequently, and perform all regularly scheduled maintenance.

Seats

Front seat



OLQ2A065001_4

* The actual features may differ from the illustration.

(1) Seatback angle
(2) Forward and backward
(3) Seat cushion height
(4) Seat cushion tilt
(5) Leg support/cushion support
(6) Relaxion comfort seat
(7) Lumbar support
(8) Bolster adjuster

Rear seat (7 passenger)



OLQ2A065002_5

* The actual features may differ from the illustration.

(1) Seatback angle
(2) Forward and backward
(3) Walk-in switch
(4) Relaxation comfort seat
(5) 3rd row seatback angle strap
(6) 3rd row seatback folding strap

Rear seat (8 passenger)



OLQ2AH066011_6

* The actual features may differ from the illustration.

(1) Seatback angle
(2) Forward and backward
(3) Armrest
(4) 2nd row emergency folding strap
(5) 3rd row seatback angle strap
(6) 3rd row seatback folding strap
(7) Walk-in switch

WARNING

Loose objects

Loose objects in the driver's foot area could interfere with the operation of the foot pedals, possibly causing an accident. Do not place anything under the front seats.

⚠ CAUTION

Raising a seat upright

Do not press the release lever on a manual seatback without holding and controlling the seatback. The seatback will spring upright, possibly impacting you or other passengers.

⚠ WARNING

Driver responsibility for passengers



OLQ2A065083

The driver must advise the passengers to keep seatbacks in upright positions whenever the vehicle is in motion. If a seat is reclined during an accident, the restraint system's ability to restrain the passenger is greatly reduced.

⚠ WARNING

Seat cushion

Occupants should never sit on aftermarket seat cushions. The passenger Occupant Detection System (ODS) may not operate properly, or the passenger's hips may slide under the lap portion of the seat belt during an accident or a sudden stop.

⚠ WARNING

Driver's seat

- Never attempt to adjust the seat while the vehicle is moving. This could result in loss of control of your vehicle.
- Do not allow anything to interfere with the normal position of the seatback. For example, storing heavy items against the seatback could result in serious or fatal injury in a sudden stop or collision.
- Sit as far back as possible from the steering wheel while still maintaining comfortable control of your Kia. A distance of at least 10 inches (25 cm) from your chest to the steering wheel is recommended. Failure to do so can result in air bag inflation injuries to the driver.

WARNING

Rear seatbacks
Always lock the rear seatback before driving. Failure to do so could result in passengers or objects being thrown forward, injuring occupants.

WARNING

Unexpected seat movement
After adjusting a manual seat, always check that it is locked by shifting your weight to the front and to the back. Sudden or unexpected movement of the driver's seat could cause you to lose control of the vehicle.

WARNING

Seat adjustment
- Do not adjust the seat while wearing seat belts. Moving the seat forward may put strong pressure on the abdomen.
- Do not place your hand near the seat bottom or seat track while adjusting the seat. Your hand could get caught in the seat mechanism.

WARNING

Luggage and cargo
Do not stack or pile luggage or cargo higher than the seatback in the cargo area. In an accident, the cargo could strike and injure a passenger. If objects are large, heavy, or must be piled, secure them in the cargo area.

WARNING

Cargo area
Do not allow passengers to ride in the cargo area under any circumstance. The cargo area is solely for the purpose of transporting luggage or cargo.

CAUTION

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

NOTE

Precautions with seat covers
Use caution when working on the seat cover. A short circuit or disconnection may occur, which could cause an abnormal noise or damage the ventilation system.

WARNING

Seat short circuit risk

Be aware of wires or air vents when placing a seat cover or covering the seat with plastic. Short circuits and blocked vents can cause damage and could lead to fire.

Seat leather (if equipped)

- Your car seats are upholstered with artificial leather. Wrinkles could appear depending on the temperature and humidity.
- The seat cover is made of stretchable material to improve occupant comfort.
- The seats are curved and the side supporting areas are high, which provides driving comfort and stability.

NOTE

- Belts with metallic accessories, zippers, and keys may damage the seat fabric.
- Make sure not to get the seat wet. It may damage the leather.
- Bleach on clothes may stain the leather.

TIP

Wrinkles or abrasions may appear naturally from usage. It is not a defect. Wrinkles or abrasions are not covered by warranty.

Front seat adjustment for manual seat (if equipped)

Use the control levers on the outside of the seat cushion to adjust the front seat.

Moving forward and backward

Adjust the seat before driving. Make sure the seat is locked securely by trying to move forward and backward without using the lever. If the seat moves, it is not locked properly.



OLQ2A065070

To move the seat forward or backward:

1. Pull the seat slide adjustment lever up 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.

Reclining seatback



OLQ2A065071

To recline the seatback:

1. Lean forward slightly and lift the seatback recliner lever.
2. Carefully lean back on the seat and adjust the seatback to the desired position.
3. Release the lever and make sure the seatback is locked in place.
   The lever MUST return to its original position for the seatback to lock.

WARNING

Reclining seatback

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

Seat belts must be snug against an occupant's 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. In an accident, you could be thrown into the seat belt or slide under the seat belt, causing neck, abdominal, spinal, or other injuries.

The more the seatback is reclined, the greater chance you hips could slide under the lap belt or your neck will strike the shoulder belt.

Changing seat cushion height



OLQ2A065072

To change the height of the seat cushion:

1. To lower the seat cushion, push the lever down several times.
2. To raise the seat cushion, pull the lever up several times.

Front seat adjustment for power seat (if equipped)

You can adjust the driver's seat by using the control switches located on the outside of the seat cushion. Before driving, adjust the seat to the proper position so you can easily control the steering wheel, pedals, and switches on the instrument panel.

WARNING

Unattended children

Never leave children unattended in a vehicle. Children might operate features of the vehicle that could injure them.

NOTE

Power seating adjustments

- The power seating controls function by motor. Repeated operation may cause damage to the electrical equipment.
- Do not operate 2 or more power seat control switches at the same time. This may cause damage to the power seat motor or electrical components.

Moving forward and backward



OLQ2A065003

To move the seat forward or backward:

1. Push the control switch forward or backward to move the seat to the desired position.
2. Release the switch once the seat reaches the desired position.

Reclining seatback



OLQ2A065004

To recline the seatback:

1. Push the control switch forward or backward to move the seatback to the desired angle.
2. Release the switch once the seat reaches the desired position.

Changing seat cushion tilt and height



OLQ2A065061



OLQ2A065005

To change the height of the seat:

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

Adjusting lumbar support (if equipped)

Type A



OLQ2A065006

Type B



OLQ2A065007

Adjust the lumbar support by pressing the lumbar support switch on the side of the seat.

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

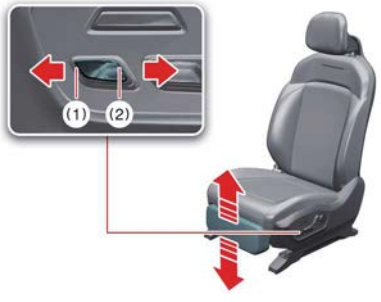
Adjusting cushion extension (if equipped)



OLQ2A065008

1. Press the front portion of the switch to move the cushion extension forward and the rear portion of the switch to move it back.
2. Release the switch once the cushion extension reaches the desired position.

Leg support



OLQ2A065062

(1) Upward
(2) Downward

Operation

- Push the back of the switch (1) to the front to move the leg support upwards.
- Push the front of the switch (2) to the rear to move the leg support downwards.

WARNING

- When you adjust the leg support of a seat, it's possible for your feet to get stuck under or on nearby objects located in the space between the front seat and the instrument panel. It's important to be cautious and mindful during this process, as unexpected injuries could occur.
- It's important to exercise caution when using the switch around children, as there is a risk of unexpected injuries.

NOTE

Do not sit on the edge of the leg support or place heavy objects on it. It can cause the leg support to malfunction.

NOTE

Move the seat back before using the leg support. If the seat is too close to surrounding parts, it may restrict the use of the leg support.

Cushion support

The cushion support adjustment function allows the driver to adjust the position of the cushion to increase comfort while driving. It is a feature that is designed to provide better support and reduce fatigue during long drives.



OLQ2A065063

(1) Upward
(2) Downward

Operation

- Push the cushion support adjustment switch upward(1) to raise the cushion support.
- Push the cushion support adjustment switch downward(2) to lower the cushion support.
- To adjust the cushion support height to the maximum, operate the cushion support adjustment switch for approximately 8 seconds. After reaching the maximum height, the height will not change even if you continue to operate the cushion support adjustment switch. Simply take your hand off the cushion support adjustment switch at this point.

Seat bolster (Driver's seat) (if equipped)

The seat bolster provides firm support to the driver's side while driving, which helps prevent the upper body from leaning to the side during turns. This improves stability and control while driving, especially during sporty or aggressive driving.



OLQ2A065064

Operation

- Turn the seat bolster adjustment switch clockwise and the seatback bolster will be tightened.
- Turn the seat bolster adjustment switch counterclockwise and the seatback bolster will be loosened.
- To adjust the seat bolster adjustment switch height to the maximum, turn the seat bolster adjustment switch clockwise for approximately 8 seconds. After reaching the maximum position, the seat bolster position will not change even if you continue to operate the seat bolster adjustment switch. Simply take your hand off the switch at this point.

Smart support (Driver's seat)

When driving in SPORT mode, the driver's seat bolster tightens to provide additional support to the driver's waist, which helps improve stability during sporty driving.

Operation

- Select **Setup** > **Vehicle** > **Seats** > **Smart posture care** from the infotainment system.

Operating condition(s)

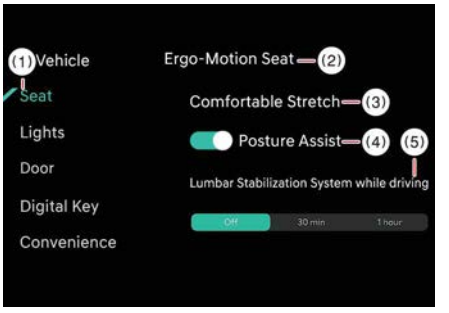
- When SPORT mode is selected in the Drive Mode
  - The seat bolster is tightened
  - The cushion support position returns to the vehicle's initial setting position.
- The seat bolster is tightened further when the vehicle's speed is approximately 80 mph (130 km/h) or higher.
- If both conditions below are satisfied, the seat bolster and cushion support position return to the previous state.
  - When the Drive Mode other than SPORT mode is selected
  - When the vehicle's speed is below approximately 70 mph (110 km/h).

Ergo-motion seat (Driver's seat) (if equipped)

Setting the Ergo-motion seat

Ergo-motion seat uses air pockets to provide adjustable cushioning and support to the driver, helping to reduce fatigue and improve comfort during long drives or in varying driving condi-

tions.



OLQ2A005101

(1) **Seat**
(2) **Ergo-motion seat**
(3) **Comfortable stretch**
(4) **Posture Assist**
(5) **Lumbar Stabilization System while driving**

Operation

- Select **Setup** > **Vehicle** > **Seat** > **Ergo-motion seat** from the infotainment system.

Ergo-motion seat modes

Comfort stretching



OLQ2A065020

Operation

- Each time the comfort stretch control switch located on the driver's door is pressed, the mode changes in the following order and is displayed on the infotainment system screen.
  - **Pelvic stretching** : The cushion part moves to help the pelvis move left and right.
  - **Lumbar stretching** : The lumbar support moves and helps exercise the back and front of the waist.
  - **Whole body stretching** : The cushion and lumbar support move sequentially to help the whole body exercise to relieve fatigue.
  - **Off** : Disable the comfort stretching function.
- Comfort Stretching can be turned off by pressing the switch for approximately 1 second or longer during comfort stretching operation.

- During the operation of the Comfort Stretching function, press any of the seat adjustment switches (cushion support, lumbar support, bolster adjustment device), so the operation stops.
- Select **Setup > Vehicle > Seats > Ergo-motion seat > Comfortable stretch** from the infotainment system to change the intensity and duration of the comfort stretching feature.
  - Intensity: **Normal** / **Strong**
  - Duration: **Short (10 min.)** , **Normal (15 min.)** , **Long (20 min.)**

Posture assist

After about an hour of driving with the driver's seat belt fastened, the posture assist function automatically turns on and assists the driver's posture by adjusting the driver's seat's hips and waist parts.

Operation

- Select **Setup > Vehicle > Seats > Ergo-motion seat > Posture Assist** from the infotainment system.
- If you press the seat adjustment switch (cushion support, lumbar support, bolster adjustment device) while the posture assist function is operating, the operation stops.

Operating condition(s)

If both conditions below are satisfied, the posture assist function automatically operates to assist the driver's posture.

- The vehicle is in ON position
- The driver's side seatbelt is fastened

Lumbar Stabilization System while driving

This function repeats the adjustment of the lumbar support in a regular pattern to reduce back fatigue when driving continuously for a long time.

Operation

- Select **Setup > Vehicle > Seats > Ergo-motion seat > Lumbar Stabilization System while driving (Off, 30 min, 1hour)** from the infotainment system.
- If you press the lumbar support adjustment switch while the lumbar support function is operating while driving, the operation stops.

Operating condition(s)

- Activates automatically after 30 minutes or 1 hour of continuous driving.

Relaxion comfort seat (front seats) (if equipped)

Relaxion comfort seats distribute body pressure and concentrated weight on specific body parts that occur while sitting in the same position for a long period of time. The seat relieves fatigue and discomfort by providing the optimal sit position.



OLQ2A065084

WARNING

- Do not use the relaxion comfort seat while the vehicle is moving. Using the relaxion comfort seat could distract the driver and increase the risk of injuries in the event of a collision or sudden stop.
- Be careful not to get your body or objects caught while the relaxion comfort seat is operating.
- As the risk of injury may increase in the event of a collision with the relaxation comfort seat is being operated, use it only when parked/stopped or while resting.
- If you operate the relaxation comfort seat while wearing the seat belt, the seat belt on the chest side may not adhere to your chest firmly, so use it only when parked/stopped or while resting.

WARNING

- Do not use the relaxion comfort seat while the vehicle is moving. The shoulder belt may not adhere to your chest firmly.
- Do not use the relaxion comfort seat when the luggage or other objects are placed on the rear seat.
- Do not use the relaxion comfort seat when the rear seats are not in the rearmost position and upright.
- Check the occupants or other cargo in the luggage area before operating the relaxion comfort seat. Operate after securing sufficient clearance from the instrument panel or rear seatback.

Operating relaxion comfort seat



OLQ2A065067

(1) Relaxion comfort seat return switch
(2) Relaxion comfort seat switch

Operation

1. Press the rear portion of the relaxion comfort seat switch (2) to move the seat to the desired position.
2. Release the switch once the seat reaches the desired position
3. After operating the relaxation comfort seat, you can adjust it for a more comfortable posture using the seat adjustment switch.

Non-operating condition(s)

- When the vehicle is in R (Reverse)/N (Neutral)/D (Drive) position (Driver's seat)
- When the vehicle speed is above 2 mph (3 km/h) (Driver's seat)
- When the integrated memory system needs initialization

Returning relaxion comfort seat

Operation

- While the seat is in the relaxion comfort seat position, press the front portion of the relaxion comfort seat switch (1).

  Do not operate both switches at the same time. It may damage the relaxion comfort seat system.

Saving the return position of the passenger seat

To save the current passenger seat position as the return position, adjust the passenger seat to the desired position, and then press the front side (1) of the relaxion switch located at the bottom of the seat cushion 3 times within a 2-second period. This will save the current position as the return position.

Non-operating condition(s)

- When the vehicle is in R (Reverse)/N (Neutral)/D (Drive) position (Driver's seat)
- When the vehicle speed is above 2 mph (3 km/h) (Driver's seat)
- When the integrated memory system needs initialization

NOTE

Do not operate both switches at the same time. It may damage the relaxion comfort seat system.

TIP

To save the current passenger seat position as the return position, adjust the passenger seat to the desired position, then press the front side (1) of the relaxion switch located at the bottom of the seat cushion 3 times within a 2-second period. This will save the current position as the return position.

Resetting relaxion comfort seat



OLQ2A065068

(1) Forward/backward adjustment switch
(2) Seatback angle adjustment switch

Driver's side

Operation

1. Open the driver's side door when the vehicle is stopped and the vehicle in ON position.
2. Move the seat forward as far as possible, and raise the seatback angle as forward as possible by using the driver's seat forward/backward adjustment switch and seatback angle adjustment switch.
3. Press the driver's seatback angle adjustment switch and push the front portion of the driver's seat forward/backward adjustment switch (the direction to move the seat position forward) at the same time for approximately 2 seconds.

NOTE

Make sure there are no obstacles around the driver's seat before initialization.

- The initialization process are as follows.
  - With a beep sound, the initialization process begins.
  - The seat and backrest automatically move to the rear. A beep sounds continuously during operation.
  - The seat and backrest will move to the center again and the initialization process will end with the last beep sound.

Non-operating condition(s)

The initialization process will be interrupted in the following situations.
- When the driver's side seat adjustment switch is pressed
- When the vehicle speed is above 3 mph (5 km/h)
- When the driver's side door is closed

If the driver's seat operation and a beep sound stop during initialization, start initialization again. After initialization, adjust the seat to suit the driver and save it to the driving position memory system again.

Passenger's side

1. Open the passenger's side door when the vehicle is stopped and the vehicle in ON position.
2. Move the seat forward as far as possible, and raise the seatback angle as forward as possible by using the driver's seat forward/backward adjustment switch and seatback angle adjustment switch.
3. Press the passenger's seatback angle adjustment switch and push the front portion of the passenger's seat forward/backward adjustment switch (the direction to move the seat position forward) at the same time for approximately 2 seconds.

NOTE

Make sure there are no obstacles around the passenger seat before initialization.

- The initialization process are as follows:
  - With a beep sound, the initialization process begins.
  - The seat and backrest automatically move to the rear. A beep sounds continuously during operation.
  - The seat and backrest will move to the center again and the initialization process will end with the last beep sound.

Non-operating condition(s)

The initialization process will be interrupted in the following situations:
- When the passenger's side seat adjustment switch is pressed

NOTE

- If the passenger side seat stops working during initialization, start initialization again.
- After initialization, adjust the passenger seat to fit the passenger.

Rear seat adjustment for manual seat

Forward and backward (2nd row seat)



OLQ2A065073

To move the seat forward or backward:

1. Pull the seat slide adjustment lever up 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.

   Adjust the seat before driving. Make sure the seat is locked securely by trying to move forward and backward without using the lever. If the seat moves, it is not locked properly.

Seatback angle

2nd row seat



OLQ2A065074

3rd row seat



OLQ2A065105

To recline the seatback:

1. Lift the seatback recliner lever (for 2nd row) or strap (for 3rd row).
2. Hold the lever (for 2nd row) or strap (for 3rd row) and adjust the seatback to the desired position.
3. Release the lever (for 2nd row) or strap (for 3rd row) and make sure the seatback is locked in place.

   The lever must return to its original position for the seatback to lock.

Folding the rear seat

2nd row seat folding

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

WARNING

Never attempt to fold the seat when there are passengers, animals, or other obstructions in the 2nd or 3rd row seats or rear seating area, or while an occupant is entering or exiting the vehicle. Failure to do so increases the risk of serious injury or death. Children occupying the 2nd or 3rd row seats or rear seating area should be supervised at all times.

Folded Seatback

Do not sit on folded or not fully unfolded seatbacks. The purpose of the fold-down rear seatbacks is to allow you to carry longer objects that could not otherwise be accommodated.

- Never allow a passenger to sit on top of the folded down seatback while the car is moving. This is not a proper seating position since the seat has important crash protection features and seat belts are not available in this seat configuration.
- To reduce the risk of injury caused by sliding cargo within the passenger compartment of the vehicle, objects carried on the folded down seatback should not extend higher than the top of the front seats.

1. Insert the rear seat belt buckle in the pocket between the rear seatback and cushion, and insert the rear seat belt webbing in the guide to prevent the seat belt from being damaged.

2nd row seat



OLQ2A065009

3rd row seat



OLQ2A065013



OLQ2A065014

2. Set the front seatback to the upright position and, if necessary, slide the front seat forward.
3. Lower the rear headrests to the lowest position.

WARNING

Objects

Objects carried on the folded down seatback should not extend higher than top of the front seatbacks. Cargo that extends higher than the top of the front seatbacks could slide forward and cause injury or damage during sudden stops.

4. Pull the seatback folding lever, then fold the seat toward the front of the vehicle.

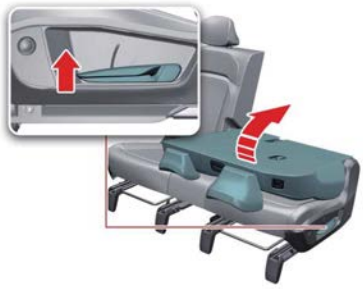
2nd row seat



OLQ2A065075

5. To use the rear seat, lift and pull the seatback backward by pulling on the folding lever.
   Pull the seatback firmly until it clicks into place.
   Make sure the seatback is locked in place.

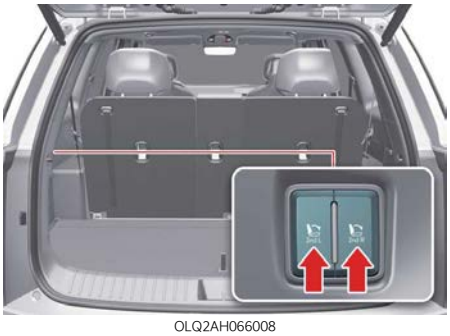
2nd row seat



OLQ2A065076

6. Return the rear seat belt to the proper position.

2nd row seat folding (from the luggage room)



OLQ2AH066008

The 2nd row seat folding switch is located on the left side in the luggage room.
If you press the left switch, the left side seatback and center seatback will fold.
If you press the right switch, the right side seatback will fold.

WARNING

Do not fold the rear seatbacks down until the driver's seat is positioned properly. Failure to heed this warning could cause the driver to operate the vehicle with the seat out of position, which increases the risk of bodily injury in a sudden stop or collision.

WARNING

Raising the seatback upright

When you return the seatback to its upright position, hold the seatback and return it slowly. If the seatback is returned without holding it, the back of the seat could spring forward, striking the driver or passengers and resulting in injury.

WARNING

Never attempt to fold the seat when there are passengers, animals, or other obstructions in the 2nd or 3rd row seats or rear seating area, or while an occupant is entering or exiting the vehicle. Failure to do so increases the risk of serious injury or death. Children occupying the 2nd or 3rd row seats or rear seating area should be supervised at all times.

WARNING

Rear seatback

To ensure maximum protection in the event of an accident or sudden stop, when returning the rear seat to the upright position:

- Be careful not to damage the seat belt webbing or buckle.
- Do not allow the rear seat to pinch or catch the seat belt webbing or buckle.
- Ensure the seatback is completely locked into its upright position by pushing on the top of the seatback.

NOTE

Protecting rear seat belt buckles

When you fold the rear seatback, insert the buckle between the rear seatback and cushion. Doing so can prevent the rear seatback from damaging the buckle.

TIP

Rear seat belts

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

WARNING

Cargo

Always secure cargo 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 shift lever is set to P (Park), and the parking brake is applied when loading or unloading cargo. Failure to take these steps may allow the vehicle to move if the shift lever is inadvertently set to a different gear.

3rd row seat folding



OLQ2A065017

To fold the 3rd row seat, pull the seatback folding strap, then fold the seat forward the front of the vehicle.
To unfold the 3rd row seat, lift the seatback backward by pulling on the folding strap. Pull the seatback firmly until it clicks into place. Make sure the seatback is locked in place.

Rear seat adjustment for power seat

Forward and backward (2nd row seat)



OLQ2AH066002

To move the seat forward or backward:
1. Push the control switch forward or backward to move the seat to desired position.
2. Release the switch once the seat reaches the desired position.

Seatback angle (2nd row seat)



OLQ2AH066003

To recline the seatback:

1. Push the control switch forward or backward to move the seatback to desired angle.
2. Release the switch once the seat reaches the desired position.

Walk-in seat (2nd row seat)

To access or exit the 3rd row seat:

1. Route the seat belt webbing through the 2nd row seat belt guide clip. Insert the belt and pull it upward to tighten.



OLQ2A065009

2. Press and hold either switch (1) on the top of the 2nd row seat or switch (2) at the bottom to move the seat to a preset position.

for 7 passenger



OLQ2AH066012



OLQ2AH066013

for 8 passenger (right side seat)



OLQ2AH066014_2

Press and hold the walk-in switch located at the top of the 2nd row seatback or on the outer side of the seat. The seat cushion and seatback will tilt forward simultaneously, and the seat will move to a preset position.

for 8 passenger (center and left and side seat)



OLQ2AH066015_2

3. Press either switch (1) on the top of the 2nd row seat or switch (2) at the bottom to move the seat to a predefined position.

WARNING

Do not attempt to operate the 2nd row walk-in switch while the vehicle is in motion. The seat may move unexpectedly, which could result in passenger injury.

4. After using the walk-in switch and before entering the vehicle, adjust the seatback angle switch (1) or the forward/backward switch (2) to adjust the seat to your preferred position.



OLQ2AH066018

WARNING

Do not press the seatback angle switch or the seat cushion forward/backward switch while the seat is occupied, or when someone is entering or exiting the vehicle. Doing so may cause the seat to move unexpectedly, increasing the risk of serious injury or death. Always supervise children seated in the 2nd row. After use, ensure the 2nd row seatback is returned to the proper seating position.

TIP

The walk-in feature must not be used if a Child Restraint System is installed or if there is a passenger in the seat. To use the feature, first remove the Child Restraint System from the seat.

Emergency folding strap (for 8 passenger)

The 2nd row seat can also be unlocked by pulling the strap located behind the right side of 2nd row seat seatback.



OLQ2AH066007

Integrated Rear Seat Control

This feature is used to provide comfort to 2nd row passengers by adjusting seat settings, such as ventilation, heating, position, and tilt.

To turn on this feature, select **Home > Seats** in the infotainment system settings. Change specific settings for the 2nd row seats, such as ventilation, heating, position, and tilt.

For more information, refer to the QR code in the quick guide of the infotainment system to access the web manual and check the updated information.

Folding the rear seat

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

WARNING

Never attempt to fold the seat when there are passengers, animals, or other obstructions in the 2nd or 3rd row seats or rear seating area, or while an occupant is entering or exiting the vehicle. Failure to do so increases the risk of serious injury or death. Children occupying the 2nd or 3rd row seats or rear seating area should be supervised at all times.

Folded Seatback

Do not sit on folded or not fully unfolded seatbacks. The purpose of the fold-down rear seatbacks is to allow you to carry longer objects that could not otherwise be accommodated.

- Never allow a passenger to sit on top of the folded or not fully unfolded seatback while the car is moving. This is not a proper seating position since the seat has important crash protection features and seat belts are not available in this seat configuration.
- To reduce the risk of injury caused by sliding cargo within the passenger compartment of the vehicle, objects carried on the folded seatback should not extend higher than the top of the front seats.

1. Insert the rear seat belt buckle in the pocket between the rear seatback and cushion, and insert the rear seat belt webbing in the guide to prevent the seat belt from being damaged.
   - With the gear in P (Park), the seat belt unfastened, and the door open, fold the seatback forwards as far as possible, and pull the upper area of the seatback angle adjustment switch forwards until the seatback is fully folded.

- If you stop pulling the seatback angle adjustment switch while the seatback is folding or unfolding, the seatback stops moving. To resume, pull the switch again.

2nd row seat



OLQ2A065009

3rd row seat



OLQ2A065013



OLQ2A065014

2. Set the front seatback to the upright position and, if necessary, slide the front seat forward.
3. Lower the rear headrests to the lowest position.

WARNING

Objects

Objects carried on the folded down seatback should not extent higher than top of the front seatbacks. Cargo that extends higher than the top of the front seatbacks could slide forward and cause injury or damage during sudden stops.

4. Push the seatback angle adjustment switch forward to move the 2nd row seatback forward.



OLQ2AH066004

5. Release the switch once the 2nd row seatback reaches the frontmost seating position.
6. Push the switch forward to move the 2nd row seat to the folded position.



OLQ2AH066005

7. Release the switch once the 2nd row seatback reaches the folded position.

Unfolding the rear seat

1. To use the 2nd row seat, push the seatback angle adjustment switch backward.



OLQ2AH066006

TIP

If you stop pulling the switch while the seatback is folding or unfolding, the seatback stops moving. To resume, pull the switch again.

2. Adjust the seatback angle switch to the desired position. When the seatback reaches the upright position, operation will automatically stop.

Relaxation comfort seat (if equipped)

Relaxation comfort seats distribute body pressure and concentrated weight on specific body parts that occur while sitting in the same position for a long period of time. The seat relieves fatigue and discomfort by providing the optimal sit position.



OLQ2A065110

WARNING

- Do not use the relaxation comfort seat while the vehicle is moving. Using the relaxation comfort seat could increase the risk of injuries in the event of a collision or sudden stop.
- Be careful not to get your body or objects caught while the relaxation comfort seat is operating.
- As the risk of injury may increase in the event of a collision with the relaxation comfort seat is being operated, use it only when parked/stopped or while resting.

CAUTION

Check the occupants or other cargo in the back seat before operating the relaxation comfort seat. Operate after securing sufficient distance between the front and rear seats.

Operating relaxation comfort seat



OLQ2A065069

(1) Relaxation comfort seat return switch
(2) Relaxation comfort seat switch

Operation

1. Press and hold the rear portion of the relaxation comfort seat switch (2) to move the seat to the desired position.
2. Release the switch once the seat reaches the desired position.
3. After operating the relaxation comfort seat, you can adjust it for a more comfortable posture using the seat adjustment switch.

TIP

Depending on the driver's seat position, the 2nd row relaxation comfort seat behind the driver's seat may not operate. Move the driver's seat forward.

Returning relaxation comfort seat

Operation

- While the seat is in the relaxation comfort seat position, press and hold the front portion of the relaxation comfort seat switch (1) to return the seat to the pre-saved seat position.

NOTE

- Do not operate both switches at the same time. It may damage the relaxation comfort seat system.
- If you pull the emergency seat folding strap located at the back, the operation of the relaxation comfort seat function and the dynamic body care function are disabled.

TIP

To save the current passenger seat position as the return position, adjust the passenger seat to the desired position, then press the front side (1) of the relaxation switch located at the bottom of the seat cushion 3 times within a 2-second period. This will save the current position as the return position.

Resetting relaxation comfort seat



OLQ2A065112

(1) Forward/backward adjustment switch
(2) Seatback angle adjustment switch

Operation

1. Open the passenger's side door when the vehicle is stopped and the vehicle in ON position.
2. Move the seat forward as far as possible, and raise the seatback angle as forward as possible by using the driver's seat forward/backward adjustment switch and seatback angle adjustment switch.
3. Press the passenger's seatback angle adjustment switch and push the front portion of the passenger's seat forward/backward adjustment switch (the direction to move the seat position forward) at the same time for approximately 2 seconds.

Non-operating condition(s)

- When the passenger's side seat adjustment switch is pressed
- When the vehicle speed is above 3 mph (5 km/h)
- When the passenger's side door is closed

TIP

- If initialization stops during initialization, start initialization again. If initialization is interrupted, there may be restrictions on the operation of the relaxation function.
- Make sure there are no obstacles around the seat before initialization.

TIP

After initialization, adjust the seat to fit the occupant.

Headrest (for front seat)

The driver's and front passenger's seats are equipped with a headrest for the occupant's safety and comfort.



OLQ2A065018

The headrest not only provides comfort for the driver and front passenger, but also helps protect the head and neck in the event of a collision.
To maximize effectiveness in case of accidents, the headrest should be adjusted so the middle of the headrest is level with the center of gravity of an occupant's head. Generally, the center of gravity of most people's heads is at the same height as the top of their eyes.
Adjust the headrest as close to your head as possible. For this reason, we do not recommend using a cushion that holds your body away from the seatback.

⚠ WARNING

Headrest removal/adjustment

- Do not operate the vehicle with the headrests removed. Headrests can provide critical neck and head support in a crash.
- Do not adjust the headrest height while the vehicle is in motion. You may lose control of the vehicle.

NOTE

Excessive pulling or pushing may damage the headrest.

Adjusting the height up and down



OLQ2A065104

1. To raise the headrest, pull it up to the desired position.

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

WARNING

To properly protect the occupants, make sure the headrest locks in position after adjusting it. Do not operate the vehicle with the headrests removed. Headrests can provide critical neck and head support in a crash.

NOTE

If you angle the seatback forward with the headrest and seat cushion raised, the headrest may contact the sun visor or other parts of the vehicle.



OLQ2A065082

Forward and backward adjustment (if equipped)



OLQ2A065021

Adjust the headrest by pulling it forward to 1 of 3 different positions.
To adjust the headrest as far back as it will go, pull it all the way forward and release it.
Adjust the headrest so that it properly supports the head and neck.

Removing headrest

To remove the headrest:

1. Recline the seatback with the recline lever or switch.

Type A



OLQ2A065078

Type B



OLQ2A065023

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



OLQ2A065019_2

WARNING

Removing headrest

NEVER allow anyone to ride in a seat with the headrest removed or reversed. Headrests can provide critical neck and head support in a crash.

Reinstalling headrest



OLQ2A065111

To reinstall the headrest:

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

> **WARNING**
>
> **Headrest reinstallation**
> To reduce the risk of injury to the head or neck, always make sure the headrest is locked into position and adjusted properly after reinstalling.

Headrest (for rear seat)

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

7 passenger vehicle



OLQ2A065113

8 passenger vehicle



OLQ2A065114

The headrest not only provides comfort for passengers, but also helps protect the head and neck in the event of a collision.
To maximize effectiveness in case of accidents, the headrest should be adjusted so the middle of the headrest is level with the center of gravity of an occupant's head. Generally, the center of

gravity of most people's heads is at the same height as the top of their eyes.
Adjust the headrest as close to your head as possible. For this reason, we do not recommend using a cushion that holds your body away from the seatback.

Adjusting the height up and down (2nd row seat)



OLQ2A065025

To raise the headrest, pull it up to the desired position. To lower the headrest, push and hold the release button (1) on the headrest support and lower the headrest to the desired position.

Removal and reinstallation (2nd row seat)



OLQ2A065025

To remove the headrest, raise it as far as it can go, then press both release buttons (1) simultaneously, while pulling the headrest up.
To reinstall the headrest, put the headrest poles into the holes while pressing the release button (1). Then adjust the headrest to the appropriate height.

⚠ WARNING

To properly protect the occupants, make sure the headrest locks in position after adjusting it. Do not operate the vehicle with the headrests removed. Headrests can provide critical neck and head support in a crash.

3rd row headrest



OLQ2A065015



OLQ2A065026

The headrest will fold down automatically when you fold the seatback.

To fold the headrest manually, pull the strap.

To unfold the headrest, raise the headrest manually.

To raise the center seat headrest, pull it up to the desired position.

To lower the center seat headrest, push and hold the release button on the headrest support. Lower the headrest to the desired position.

Always be sure the headrest has locked into position after you return the seatback to an upright position.

Armrest

Armrest (2nd row seat, for 8 passenger vehicle)



OLQ2A065080

To use the armrest, pull it forward from the seatback.

Armrest adjustment (2nd row seat, for 7 passenger vehicle)



OLQ2A065027

An adjustable armrest is located on each side of 2nd row seatback. To use the armrest, pull it forward from the seatback and adjust it to desired angle. Pull the armrest backward to lock it in place.

Seatback pocket (if equipped)

There is a double pocket (2) in the front seatback for storing simple books or atlases, as well as a USB charger (1) for rear passengers.



OLQ2A065028

WARNING

Seatback pockets

Do not put heavy, stiff, or sharp objects in the seatback pockets. In an accident, they could contact and injure vehicle occupants.

Seat belts

Seat belts are designed to bear upon the skeletal structure of the body and should be worn with the lap belt part of the belt low and snug on the hips and the shoulder belt over the shoulder and across the chest.

Seat belt restraint system

For maximum protection from the seat belts, always wear them when the vehicle is moving:

- The proper position for the shoulder belt is midway over your shoulder and across your collarbone.
- Never allow children to ride in the front passenger seat. See "Child Restraint System (CRS)" on page 252 for further discussion.

WARNING

Twisted seat belt

Make sure your seat belt is not twisted when worn. A twisted seat belt may not properly protect you in an accident and could even cut into your body and cause serious injury.

WARNING

Shoulder belt

- Never wear the shoulder belt under your arm or behind your back. An improperly positioned shoulder belt cannot protect you in the event of a crash.
- Always wear both the shoulder portion and lap portion of the lap/shoulder belt.

WARNING

Damaged seat belt

Any damage to webbing or hardware may cause serious injury or death in an accident. The entire seat belt assembly should be replaced when any part of the webbing or hardware is damaged, or even after it has been worn in an accident, even if damage to the webbing or assembly is not apparent.

Seat belts are designed to bear upon the skeletal structure of the body and should be worn with the lap belt part of the belt low and snug on the hips and the shoulder belt over the shoulder and across the chest. Avoid wearing the lap section of the belt across the abdominal area.

Seat belts should be adjusted as firmly as possible, consistent with comfort, to provide maximum protection.

A slack belt can greatly reduce the protection afforded to the wearer.

Take care to avoid contaminating the webbing with polishes, oils, and chemicals, particularly battery acid. Use mild soap and water to clean the belt. Replace the belt if the webbing becomes frayed, contaminated, or damaged:

- Do not make any modifications or additions that could either prevent the seat belt adjusting devices from operating to remove slack or prevent the seat belt assembly from being adjusted to remove slack.

- When you fasten the seat belt, be careful not to latch it in the buckles of other seats. It is very dangerous and you may not be properly protected.
- Do not fasten and unfasten the seat belt while driving. This could cause loss of control and an accident resulting in death, serious injury, or property damage.
- When fastening the seat belt, make sure that the seat belt does not pass over objects other than clothing.

⚠ WARNING

Seat belt buckle

Do not allow foreign material (gum, crumbs, coins, liquids, and so on) to obstruct the seat belt buckle receptor. This may prevent the seat belt from fastening securely, and could result in serious injury or death in the event of a crash.

Seat belt warning



The seat belt warning light and warning chime operate under the following conditions:

Driver's seat belt warning

As a reminder to the driver, the seat belt warning light displays for approximately 6 seconds each time you turn the ENGINE START/STOP button ON, regardless of whether the belt is fastened. If you do not fasten the seat belt, the warning chime sounds for about 6 seconds.

If you start to drive between approximately 5 mph (9 km/h) and 12 mph (20 km/h) without the seat belt fastened, the corresponding warning light appears. The warning light turns off when the vehicle speed drops below approximately 5 mph (9 km/h).

If you drive at approximately 12 mph (20 km/h) or faster without the seat belt fastened, or unfasten it while driving at these speeds, the warning light blinks continuously and the warning chime sounds for about 100 seconds. If the seat belt is unfastened at speeds between 5 mph (9 km/h) and 12 mph (20 km/h), the warning light appears but does not blink or sound the chime until you exceed 12 mph (20 km/h).

Front passenger's seat belt warning

As a reminder to the front passenger, the seat belt warning light appears for approximately 6 seconds each time you turn the ENGINE START/STOP button ON, regardless of whether the belt is fastened. If you start to drive between approximately 5 mph (9 km/h) and 12 mph (20 km/h) without the front passenger seat belt fastened, the corresponding warning light appears. The warning light turns off when the vehicle speed drops below approximately 5 mph (9 km/h).

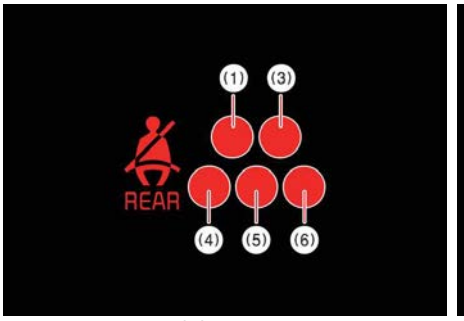
If you drive at approximately 12 mph (20 km/h) or faster without the seat belt fastened, or unfasten it while driving at these speeds, the warning light blinks continuously and the warning chime sounds for about 100 seconds. If the seat belt is unfastened at speeds between 5 mph (9 km/h) and 12 mph (20 km/h), the warning light appears but does not blink or sound the chime until you

exceed 12 mph (20 km/h).

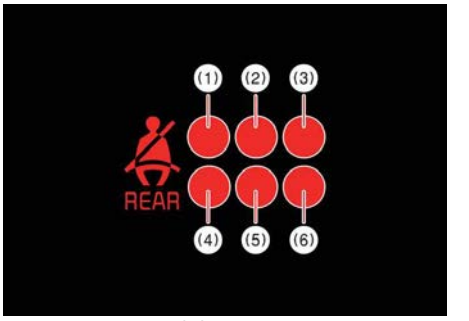
TIP

- Even if the front passenger seat is not occupied, the seat belt warning light will appear for approximately 6 seconds.
- The front passenger's seat belt warning may operate when luggage is placed on the front passenger seat.

Rear passenger's seat belt warning



OLQ2A005113



OLQ2A005114

* 2nd row seat: (1) Left side, (2) Center, (3) Right side
* 3rd row seat: (4) Left side, (5) Center, (6) Right side

As a reminder to the rear passengers, the seat belt warning light appears for approximately 6 seconds each time you turn the ENGINE START/STOP button ON, regardless of whether the belt is fastened.

If you start to drive without the seat belt fastened, the seat belt warning light blinks for approximately 70 seconds.

If you unfasten the seat belt when you drive under 12 mph (20 km/h), the seat belt warning light blinks for approximately 70 seconds.

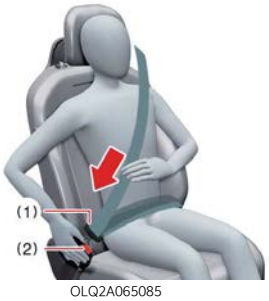
If you unfasten the seat belt when you drive over 12 mph (20 km/h), the seat belt warning chime sounds for approximately 35 seconds and the corresponding warning light blinks.

Unbuckling the seatbelt before the vehicle comes to a complete stop will cause an alarm to sound and the seatbelt reminder light to blink. This warning may continue for up to 35 seconds after you exit the vehicle. Always unbuckle your seatbelt only after the vehicle has come to a complete stop.

If the rear door is opened or closed while driving under 6 mph (10 km/h), the warning light and warning sound does not work, even if you speed up to over 12 mph (20 km/h).

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

Buckling your seat belt



OLQ2A065085

To buckle 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.

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

WARNING

Place the lap belt portion as low as possible and snugly across your hips. If the lap belt is located over the abdomen, it may increase the chance of serious injury or death in the event of a collision. in the event of a collision.



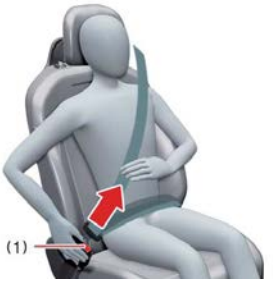
OMQ4A025111

The arm closest to the seat belt buckle should be over the belt, while the other arm should be under the belt, as shown in the illustration. Never wear the shoulder belt portion of the seat belt under the arm closest to the door.

TIP

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

Releasing the seat belt



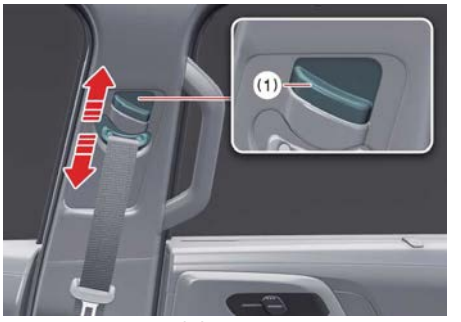
OLQ2A065086

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.

Adjusting the height of shoulder belt

You can adjust the height of the shoulder belt anchor to 1 of 4 positions for maximum comfort and safety.



OLQ2A065029

The height of the adjusted seat belt should not be too close to your neck, or you will not get the most effective protection. The shoulder portion should be adjusted so that it lies across your chest and midway over your shoulder near the door, not your neck.

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

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

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

Improperly positioned seat belts can cause serious injuries in an accident.

WARNING

Shoulder belt positioning
Verify that the shoulder belt anchor is locked into position at the appropriate height. Never position the shoulder belt across your neck or face, or under your arm. Improperly positioned seat belts can cause serious injuries in an accident.

WARNING

Seat belt replacement
After a collision, the entire seat belt assembly should be replaced, even if damage to the webbing or assembly is not apparent. Always replace any belts that are not functioning properly.

A properly buckled seat belt will be locked into the buckle on each seat cushion.

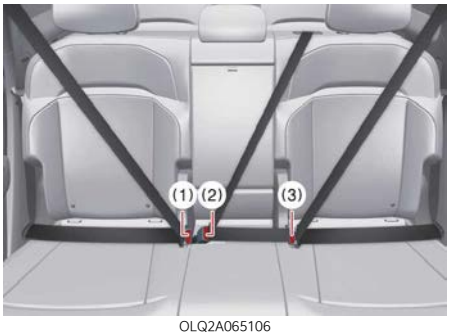
2nd row seat (7 passenger vehicle)



OLQ2A065030

(1) Rear right seat belt buckle
(2) Rear left seat belt buckle

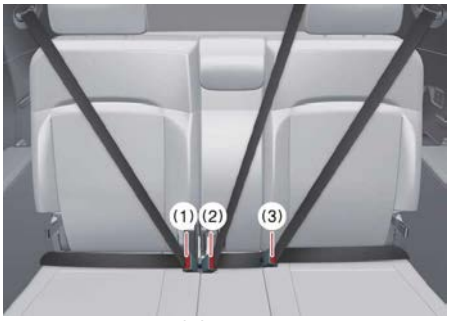
2nd row seat (8 passenger vehicle)



OLQ2A065106

(1) Rear right seat belt buckle
(2) Rear center seat belt buckle
(3) Rear left seat belt buckle

3rd row seat



OLQ2A065031

(1) Rear right seat belt buckle
(2) Rear center seat belt buckle
(3) Rear left seat belt buckle

⚠ WARNING

Prior to buckling the rear seat belts, ensure that the latch matches the seat belt buckle. Forcefully connecting the left or right seat belt to the center buckle will not secure the occupant in an accident.

Stowing the rear seat belt

The rear seat belt buckles can be stowed in the pocket between the rear seatback and cushion when not in use.

2nd row seat (for 7 passenger vehicle)



OLQ2A065032

2nd row seat (for 8 passenger vehicle)



OLQ2A065081

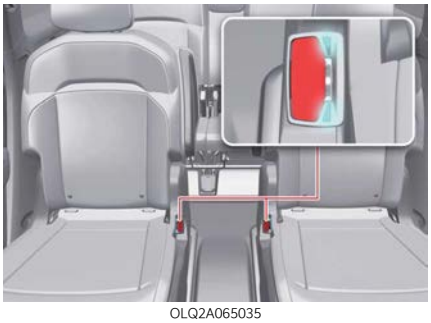
3rd row seat



OLQ2A065033

TIP

The illuminated seat belt buckles make seat belt fastening easier for rear passengers in the dark or at night. It is applied on the outer-2nd row seats and remains illuminated until the seat belt is fastened.



OLQ2A065035

1. Route the seat belt webbing through the rear seat belt guides. This will help keep the belts from being trapped behind or under the seats.

2nd row seat



OLQ2A065009

3rd row seat



OLQ2A065014

2. After inserting the seat belt, tighten the belt webbing by pulling it up.

TIP

When pulling out the seat belt to wear it, slowly pull the tab out of the seat belt guide so that the guide does not come off the trim.

Seat belts - front passenger and rear seat 3-point system with combination locking retractor

The following explains how to fasten the passenger's and rear seat belt.

Fastening the seat belt

Combination retractor type seat belts are installed in the rear seat positions to help accommodate the installation of child restraint systems. Although a combination retractor is also installed in the front passenger seat position, it is strongly recommended that children always be seated in the rear seat. NEVER place any infant restraint system in the front seat of the vehicle.

This type of seat belt combines the features of both an emergency locking retractor seat belt and an automatic locking retractor seat belt.

- Pull it out of the retractor and insert the metal tab into the buckle. There will be an audible "click" when the tab locks into the buckle. When not securing a child restraint, the seat belt operates in the same way as the driver's seat belt (emergency locking retractor type).

It automatically adjusts to the proper length only after the lap belt portion of the seat belt is adjusted manually so that it fits snugly around your hips.

When the seat belt is fully extended from the retractor to allow the installation of a child restraint system, the seat belt operation changes to allow the belt to retract, but not to extend (automatic locking retractor type). Refer to "Securing a CRS with a lap/shoulder belt" on page 258.

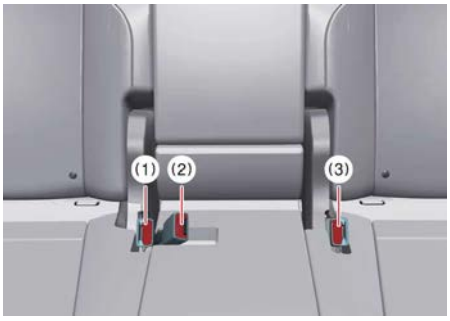
CAUTION

Do NOT fold down the left portion of the rear seatback when the rear center seat belt is buckled. ALWAYS UNBUCKLE the rear center seat belt before folding down the left portion of the rear seatback. If the rear center seat belt is buckled when the left portion of the rear seatback is folded down, distortion and damage to the top portion of the seatback and seat belt garnish may result, causing the seatback to lock into the folded down position.

NOTE

Although the combination retractor provides the same level of protection for seated passengers in either emergency or automatic locking modes, have the seated passengers use the emergency locking feature for improved convenience. The automatic locking function is intended to facilitate child restraint installation. To convert from the automatic locking feature to the emergency locking operation mode, allow the unbuckled seat belt to fully retract.

The seat belt should be locked into the buckle on each seat cushion to be properly fastened.



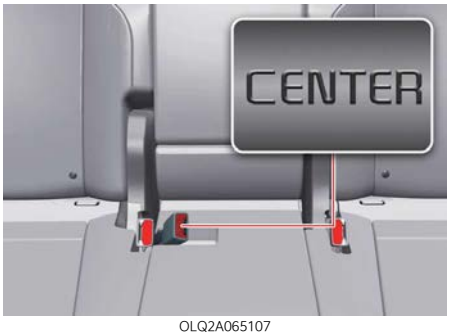
OLQ2A065108

(1) Rear right seat belt fastening buckle
(2) Rear center seat belt fastening buckle
(3) Rear left seat belt fastening buckle
* There is no center seat on rear 2nd row for vehicle with 7 seats.

WARNING

Prior to fastening the rear seat belts, ensure the latch matches the seat belt buckle. Forcefully fastening the left or right seat belt to the center buckle can result in an improper fastening scenario that will not protect you in an accident.

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



OLQ2A065107

Releasing the seat belt



OLQ2A065086

The seat belt is released by pressing the release button (1) on 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 make sure it is not twisted, then try again.

Pretensioner seat belt



OLQ2A065034

Your vehicle is equipped with pretensioner seat belts for the front driver and passenger, as well as the 2nd row, 3rd row passengers.

The purpose of the pretensioner is to help to make sure that the seat belt fits tightly against the occupant's body in certain collisions.

The pretensioner seat belts may activate in crashes where the collision is severe enough.

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 pretensioner will activate and pull the seat belt into tighter contact against the occupant's body.

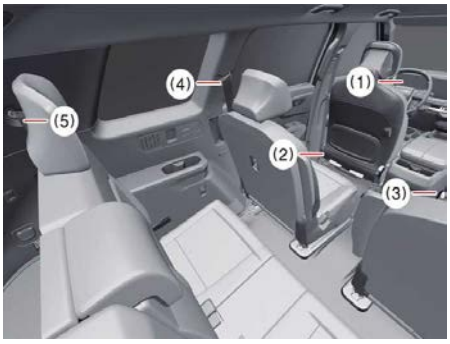
If the system senses excessive tension on the driver's or passenger's seat belt when the pretensioner system activates, the load limiter inside the retractor pretensioner will release some of the pressure on the affected seat belt.

WARNING

For your safety, be sure that the belt webbing is not loose or twisted, and always sit properly on your seat.

TIP

The pretensioner may activate in both a frontal or side collision if the vehicle is equipped with a side or curtain air bag.



OLQ2A065036

(1) SRS air bag warning light
(2) Front retractor pretensioner assembly
(3) SRS control module
(4) 2nd row retractor pretensioner assembly
(5) 3rd row retractor pretensioner assembly

CAUTION

Skin irritation
Wash all exposed skin areas thoroughly after an accident in which the pretensioner seat belts were activated. The fine dust from the pretensioner activation may cause skin irritation and should not be inhaled for prolonged periods.

TIP

- Both the driver's and front passenger's seat belt pretensioner systems may be activated not only in certain frontal collisions, but also in certain side collisions or rollovers if the vehicle is equipped with a side or curtain air bag.
- Because the sensor that activates the SRS air bag is connected with the pretensioner seat belt, the SRS air bag warning light on the instrument panel will appear for approximately 3-6 seconds after the ENGINE START/STOP button has been turned to the ON position. Then it should turn off.
- If the pretensioner seat belt system is not working properly, this warning light will appear even if there is not a malfunction with the SRS air bag. If the SRS air bag warning light does not appear when the ENGINE START/STOP button has been turned to the ON position, remains illuminated for approximately 3-6 seconds, or appears while the vehicle is being driven, have an authorized Kia dealer inspect the pretensioner seat belt and SRS air bag system as soon as possible.

WARNING

Do not attempt to service or repair the pretensioner seat belt system in any manner. Do not attempt to inspect or replace the pretensioner seat belts yourself. This must be done by an authorized Kia dealer.

CAUTION

Hot pretensioner

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

Pretensioners are designed to operate only once. After activation, pretensioner seat belts must be replaced. Contact an authorized Kia dealer.

Seat belt precautions

Take the following precautions when using seat belts.

Infant or small child

All 50 states have child restraint laws. You should be aware of the specific requirements in your state. Child or infant seats must be properly placed and installed in the rear seat. For more information about the use of these restraints, refer to "Child Restraint System (CRS)" on page 252.

TIP

Small children are best protected from injury in an accident when properly restrained in the rear seat by a Child Restraint System that meets the requirements of the Federal Motor Vehicle Safety Standards (FMVSS). Before buying any Child Restraint System, make sure that it has a label certifying that it meets Federal Motor Vehicle Safety Standard 213. The restraint must be appropriate for your child's height and weight. Check the label on the child restraint for this information. Refer to "Child Restraint System (CRS)" on page 252.

Larger children

Children who are too large for a Child Restraint System should always occupy the rear seat and use the available lap/shoulder belts. The lap belt portion as low as possible and snugly across your hip. Check periodically to ensure that the belt fits. A child's movement could move the belt out of position. Children are safest in the event of an accident when they are restrained by a proper restraint system in the rear seat. If a larger child (over age 12) must be seated in the front seat, the child should be securely restrained by the available lap/shoulder belt, and the seat should be placed in the rearmost position. Children under age 13 should be restrained securely in the rear seat. NEVER place a child under age 13 in the front seat. NEVER place a rear-facing child seat in the front seat of a vehicle.

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 a Child Restraint System.

WARNING

Small children

Do not allow small children to ride in the vehicle without an appropriate Child Restraint System. If the shoulder belt comes in contact with your child's neck or face, your child is too small to ride in the vehicle. In a crash, the seat belt could inflict injury to your child's neck, throat, and face.

Restraint of pregnant women

Pregnant women should wear lap/shoulder belt assemblies whenever possible according to specific recommendations by their doctors. The lap portion of the belt should be worn AS SECURELY AND LOW AS POSSIBLE.

WARNING

Pregnant women

Pregnant women must never place the lap portion of the seat belt above or on the abdomen where the fetus is located. The force of the seat belt during a collision could result in serious injury or death of the fetus.

Injured person

A seat belt should be used when an injured person is being transported. When transporting an injured person is necessary, you should consult a physician for recommendations.

One person per belt

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

Do not lie down

To reduce the chance of injuries in the event of an accident and maximize the effectiveness of the restraint system, all passengers should be sitting up, and the front and rear seats should be in an upright position when the vehicle is moving. A seat belt cannot provide proper protection if the person is lying down in the rear seat, or if the front and rear seats are in a reclined position.

Care of seat belts

Seat belt systems should never be disassembled or modified. Take care to ensure that seat belts and belt hardware are not damaged by seat hinges, doors, or abuse.

WARNING

Pinched seat belt

Make sure that the webbing and/or buckle does not get caught or pinched in the rear seat when returning the rear seatback to its upright position. If the webbing or buckle are caught or pinched they may become damaged and could fail during a collision or sudden stop.

CAUTION

Metal components of seat belts can become hot in an enclosed vehicle in sunny weather. Please handle with care, as they could burn infants and children.

Periodic inspection

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

Keep belts clean and dry

Seat belts should be kept clean and dry. 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 seat belt assembly should be replaced if the vehicle has been involved in an accident, even if no damage is visible. Additional questions concerning seat belt operation should be directed to an authorized Kia dealer.

Child Restraint System (CRS)

Infants and younger children must be restrained in an appropriate rear-facing or forward-facing CRS that has first been properly secured to the rear seat of the vehicle. Please refer to your state or federal laws for child seating requirements in the operation of a motor vehicle.

Children always in the rear

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

WARNING

Restraint Location
Never install a child or infant seat in the front passenger seat. A child riding in the front passenger seat can be forcefully struck by an inflating airbag and get seriously injured.

CAUTION

Hot Child Restraint System (CRS)
A CRS can become very hot if it is left in an enclosed vehicle on a sunny day. Be sure to check the seat cover, buckles, and latches before placing a child in the restraint system.

According to accident statistics, children are safer when properly restrained in the rear seats than in the front seat. Even with air bags, children can be seriously injured or killed. Children too large for a CRS must use the seat belts provided.
All 50 states have child restraint laws that require children to travel in approved child restraint devices. The laws governing the age or height and weight restrictions at which seat belts can be used instead of child restraints differs among states. You should be aware of the specific requirements in your state and the states where you are traveling.
The CRS must be properly placed and installed in the rear seat. You must use a commercially available CRS that meets the requirements of the Federal Motor Vehicle Safety Standards (FMVSS).
A CRS is generally designed to be secured in a vehicle seat by the lap belt portion of a lap/shoulder belt, or by a LATCH system in the rear seats of the vehicle.

Child Restraint System (CRS)

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

Child Restraint System (CRS) Installation

An improperly secured CRS can increase the risk of serious injury or death in an accident. Always take the following precautions when using a CRS:

- Always follow the CRS manufacturer's instructions for installation and use.
- Always properly restrain your child in the CRS.
- If the vehicle head restraint prevents proper installation of a child seat (as described in the CRS manual), then readjust or entirely remove the head restraint from the seat.

- Do not use an infant carrier or a child safety seat that "hooks" over a seatback, as it may not provide adequate protection in an accident.
- A CRS in the center seating position may also contact or push up against the seat belt buckles, which can damage the buckles and make them unusable or unsafe. Always check that the CRS does not contact any of the seat belt buckles. Check the placement of the CRS regularly to make sure that it has not shifted and come into contact with any of the seat belt buckles.

⚠ WARNING

After an accident, have a Kia dealer check the CRS, seat belts, tether anchors, and lower anchors.

Selecting a child restraint system (CRS)

When selecting a CRS for your child, always:
- Make sure the CRS has a label certifying that it meets applicable Federal Motor Vehicle Safety Standards (FMVSS 213).
- Select a 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 the CRS.
- The American Academy of Pediatrics provides helpful fit and safety information about child restraints at https://www.healthychildren.org.

⚠ WARNING

Holding children

Never hold a child in your arms or lap when riding in a vehicle. The violent forces created during a crash could tear the child from your arms and throw them against the car's interior. Always use an appropriate CRS for your child's height and weight.

⚠ WARNING

Unattended children

Never leave children unattended in a vehicle. The car can heat up very quickly, resulting in injuries to the child in the vehicle.

⚠ WARNING

Seat belt use

Do not use 1 seat belt for 2 occupants at the same time. This will eliminate any safety benefit provided by the seat belt to the occupants.

CRS types

There are 3 main types of the CRS: rear-facing seats, forward-facing seats, and booster seats. They are classified according to the child's age, height, and weight.

Rear-facing child seats



OLQ2A065087

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

They should be used in rear seating positions only.

All children under age 1 must always ride in a rear-facing infant CRS.

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

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

Forward-facing child restraints



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

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

Booster seats

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

Keep your child in a booster seat until they are big enough to sit in the seat without a booster

and still have the seat belt fit properly. For a seat belt to fit properly, the lap belt must lie snugly across the upper thighs, not across the abdomen or stomach. The shoulder belt should lie snugly across the shoulder and chest, not across the neck or face. Children under age 13 must always ride in the rear seats and be properly restrained to minimize the risk of injury.

Installing a child restraint system (CRS)

After selecting a proper child seat for your child, check to make sure it fits properly in your vehicle.

Follow the instructions provided by the manufacturer when installing the child seat. Note these general steps when installing the seat in your vehicle:

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

Lower Anchors and Tether for Children (LATCH) system

The LATCH system holds a CRS in the vehicle. This system makes the CRS easier to install and reduces the possibility of improper installation. The LATCH system uses anchors in the vehicle and attachments on the CRS. The LATCH system eliminates the need to use seat belts to secure the CRS to the rear seats.

Lower anchors are metal bars built into the vehicle. There are 2 lower anchors for each LATCH seating position that will accommodate a CRS with lower anchor attachments.

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

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



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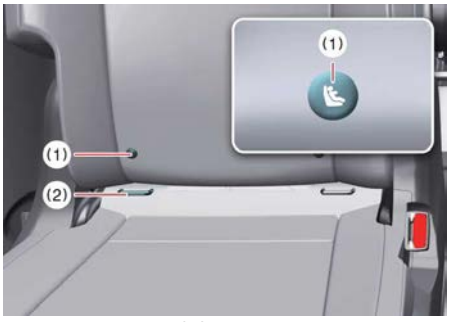
LATCH anchors have been provided in the left and right outboard rear seating positions. Their locations are shown in the illustration. There are no LATCH anchors provided for the center rear seating position.

WARNING

LATCH lower anchors

Never attempt to attach a LATCH-equipped seat in the center seating position. LATCH lower anchors are only to be used in the left and right rear outboard seating positions. You may damage the anchors, or the anchors may fail and break in a collision if the seat is in the center seating position.

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



OLQ2A065038

(1) Lower anchor position indicator
(2) Lower anchor

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

Securing a child restraint system (CRS) with the LATCH anchors system

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

1. Move the seat belt buckle away from the lower anchors. Otherwise, the lower anchor can damage the webbing or buckle, which can make them unusable or unsafe.
2. Move away any objects that could prevent a secure connection between the child restraint and the lower anchors.
3. Place the CRS on the vehicle seat, then attach the seat to the lower anchors according to the instructions provided by the child restraint manufacturer.
4. Follow the CRS instructions for properly adjusting and tightening the lower anchor attachments on the CRS to the lower anchors.

WARNING

Take the following precautions when using the LATCH system:

- Read and follow all installation instructions provided with your CRS.
- To prevent the child from reaching and taking hold of the unused seat belts, buckle all unused rear seat belts before placing the child into the vehicle. Lock each unused seat belt following the instructions in the "automatic locking mode" subsection, and place the webbing behind the child seat or against an unused seatback. Children can be strangled if a shoulder belt wraps around their neck and the seat belt tightens.

- NEVER attach more than 1 CRS to a single lower anchor. This could cause the anchor or attachment to come loose or break.
- Always have the LATCH system inspected by your authorized Kia dealer after an accident. An accident can damage the LATCH system and may not properly secure the CRS.

NOTE

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

As a guide, use the following calculation to determine the maximum CRS weight:

CRS Weight = 65 - (child's total weight in lb)

Securing a child restraint seat with "Tether Anchor" system

2nd row seat (7 passenger vehicle)



OLQ2A065040

2nd row seat (8 passenger vehicle)



OLQ2AH066019

3rd row seat



OLQ2A065039

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

Tether anchors are located on the seat back.

WARNING

Take the following precautions when installing the tether:
- Read and follow all installation instructions provided with your CRS.
- NEVER attach more than 1 CRS to a single tether anchor. This could cause the anchor or attachment to come loose or break.
- Do not attach the tether to anything other than the correct tether anchor. It may not work properly if attached to something else.
- Do not use the tether anchors for adult seat belts or harnesses, or for attaching other items or equipment to the vehicle.
- Always fasten the seat belts behind the CRS seat when they are not used to secure the child seat. Failure to do so may result in child strangulation.

To install the tether anchor:



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1. Route the tether over the seatback.
   For vehicles with adjustable headrests, route the tether under the headrest and between the headrest posts. Otherwise, route the tether over the top of the seatback.
2. Connect the tether to the tether anchor, then tighten the tether according to the instructions of your CRS's manufacturer to firmly attach the CRS to the seat.
3. Check that the CRS is securely attached to the seat by pushing and pulling the seat forward and from side-to-side.

Securing a CRS with a lap/shoulder belt

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

Automatic locking mode



OLQ2A065090

All passenger seat belts move freely under normal conditions and only lock under sudden deceleration or emergency conditions (emergency locking mode). Therefore, to secure a CRS, you must manually pull the seat belt all the way out to shift the retractor to the "automatic locking" mode.

The "automatic locking" mode will help prevent the normal movement of the child in the vehicle from causing the seat belt to loosen and compromise the CRS.

To install a CRS on the rear seats, do the following:

1. Place the CRS on a rear seat and route the lap/shoulder belt around or through the CRS, following the restraint manufacturer's instructions.
   Be sure the seat belt webbing is not twisted.
2. Fasten the lap/shoulder belt latch into the buckle. Listen for the distinct "click" sound.
   Position the release button so that it is easy to access in case of an emergency.



OMQ4A025062

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



OMQ4A025063

4. Slowly allow the shoulder portion of the seat belt to retract and listen for an audible “clicking” or “ratcheting” sound. This indicates that the retractor is in the “automatic locking” mode. If no distinct sound is heard, repeat steps "3" on page 259 and "4" on page 260.



OMQ4A025064

5. Remove as much slack from the belt as possible by pushing down on the CRS while feeding the shoulder belt back into the retractor.
6. Push and pull on the CRS to confirm that the seat belt is holding it firmly in place. If it is not, release the seat belt and repeat steps "2" on page 259 through "6" on page 260.
7. Double check that the retractor is in the “automatic locking” mode by attempting to pull more of the seat belt out of the retractor. If you cannot, the retractor is in the “automatic locking” mode.

   If your CRS manufacturer instructs or recommends you to use a tether anchor with the lap/shoulder belt, refer to "Securing a child restraint seat with “Tether Anchor” system" on page 257 for more information.

> **TIP**
>
> When the seat belt is allowed to retract to its fully stowed position, the retractor will automatically switch from the “automatic locking” mode to the emergency lock mode for normal adult usage.

WARNING

Auto lock mode

Set the retractor to automatic locking mode when installing any CRS. If the retractor is not in automatic locking mode, the CRS can move when your vehicle turns or stops suddenly, but below the emergency locking mode threshold. A child can be seriously injured or killed if the CRS is not properly anchored in the car.

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

Air bag - advanced supplemental restraint system

Precautions

WARNING

- To reduce the chance of serious or fatal injuries and receive the maximum safety benefit from your restraint system:
  - Never place a child in any child or booster seat in the front seat.
  - The infant or child could be severely injured or killed by an airbag deployment in case of an accident.
  - Children under age 13 must always be properly restrained in the rear seat. If a child 13 or over 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.
  - When children are seated in the rear outboard seats, they must be seated in the proper child restraint system.
  - ABC—Always Buckle Children in the back seat. It is the safest place for children of any age to ride.
  - For maximum safety protection in all types of crashes, all occupants including the driver should always wear their seat belts whether or not an airbag is also provided at their seating position to minimize the risk of severe injury or death in the event of a crash. Do not sit or lean unnecessarily close to the airbag while the vehicle is in motion
  - The SRS airbag system must deploy very rapidly to provide protection in a crash. If an occupant is out of position because of not wearing a seat belt, the airbag may forcefully contact the occupant causing serious or fatal injuries.
  - Front and side airbags can injure occupants improperly positioned in the front seats.
  - Sitting improperly or out of position can result in serious or fatal injury in a crash. All occupants should sit upright with the seat back in an upright position, center on the seat cushion with their seat belt on, legs comfortably extended and their feet on the floor until the vehicle is parked.
  - To avoid severe personal injury or death caused by deploying airbags in a collision, the driver should sit as far back from the steering wheel airbag. The front passenger should always move their seat as far back as possible and sit back in their seat.
  - Do not allow the 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 passengers when they are seated on seats equipped with side and/or curtain airbags.
  - For best protection from the side airbag system and to avoid being injured by the deploying side airbag, both front seat occupants should sit in an upright position with the seat belt properly fastened.
  - No objects (such as instrument panel cover, cellular phone holder, cup holder, perfume or stickers) should be placed over or near the airbag modules on the steering wheel, instrument cluster, 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 airbags to deploy. Do not place any objects over the airbag or between the airbag and yourself.

  - Never place or insert any object into any small opening near side airbag labels attached to the vehicle seats. When the airbag deploys, the object may affect the deployment and result in unexpected accident or bodily harm.
  - When installing a container of liquid air freshener inside the vehicle, do not place it near the instrument cluster nor on the instrument panel surface. It may become dangerous projectiles and cause injury if the airbag deploys.
  - Do not place any objects over the airbag or between the airbag and yourself. Also, do not attach any objects around the area the airbag inflates such as the door, side door glass, front and rear pillar.
  - Do not hang heavy items on the coat hooks for safety reasons.
- If the SRS airbag warning light remains illuminated while the vehicle is being driven, have the vehicle checked and repaired by an authorized Kia dealer.
- Air bags can only be used once- have an authorized Kia dealer replace the air bag immediately after deployment.
- Keep the SRS parts and wiring away from water or any liquid. If the SRS components are inoperative due to exposure to water or liquids, it may cause fire or severe injury.
- If your vehicle was flooded and has soaked carpeting or water on flooring, you shouldn't try to start the vehicle; In this situation, have your vehicle inspected by an authorized Kia dealer. For cleaning the airbag pad covers, use only a soft, dry cloth or one which has been moistened with plain water. Solvents or cleaners could adversely affect the airbag covers and proper deployment of the system.
- Airbag inflation may cause injuries including facial or bodily abrasions, injuries from broken glasses or burns.
- When the airbags deploy, the airbag related parts in the steering wheel and/or instrument cluster and/or in both sides of the roof rails above the front and rear doors are very hot. To prevent injury, do not touch the airbag storage areas internal components immediately after an airbag has inflated.
- Front and side airbags can injure occupants improperly positioned in the front seats.
- There may be a danger that the driver's and/or front passenger's and/or side and curtain airbag may fail to trigger or not trigger correctly during a collision.
- To prevent unexpected deployment of the side airbag that may result in personal injury, avoid impact to the side impact sensor when the vehicle is in ON position and within approximately 3 minutes after the vehicle is in OFF position.
- Do not hit or allow any objects to impact the locations where airbag or sensors are installed. This may cause unexpected airbag deployment, which could result in serious personal injury or death.
- If the installation location or angle of the sensors is altered in any way, the airbags may deploy when they should not or they may not deploy when they should, causing severe injury or death. Therefore, do not try to perform maintenance on or around the airbag sensors. Have the vehicle checked and repaired by an authorized Kia dealer.
- Do not tamper with or disconnect wiring or other components of the SRS system, including the addition of any kind of badges to the pad covers or modifications to the body structure. Doing so could adversely affect SRS performance and lead to possible injury. If necessary, have the system serviced by an authorized Kia dealer.

- If components of the airbag system must be discarded, or if the vehicle must be scrapped,certain safety precautions must be observed, such as removing SRS and pre-tensioners from a vehicle due to the risk of fire. Failure to follow these precautions and procedures could increase the risk of personal injury. An authorized Kia dealer knows these precautions and can give you the necessary information.

⚠ WARNING

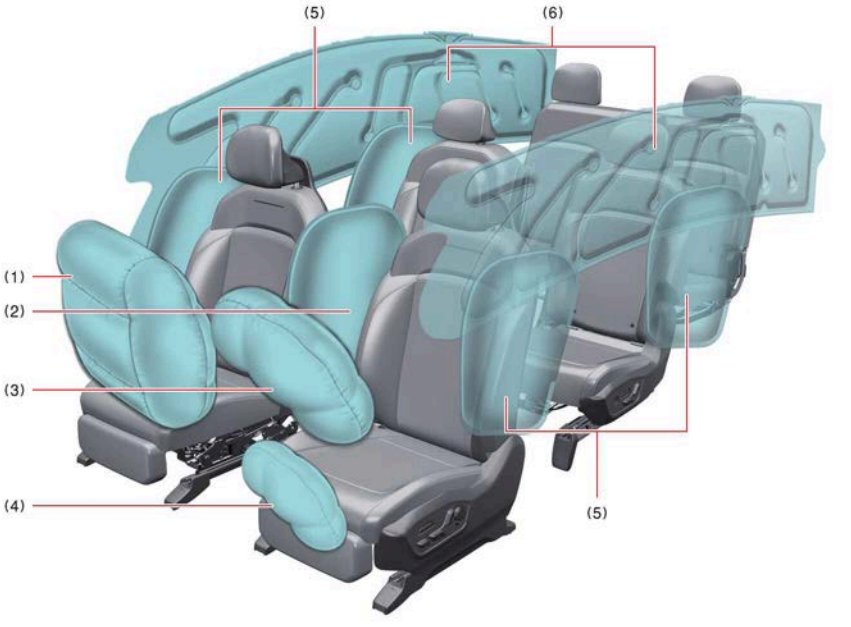
- SRS and pre-tensioners contain explosive chemicals. If you scrape a vehicle without removing the SRS and pre-tensioners, it may cause a fire. Before scraping a vehicle, contact an authorized Kia dealer
- The SRS functions only when the vehicle is in the ON position and remains functional for approximately 3 minutes after the vehicle is turned OFF. If the SRS airbag warning light does not appear or stays on for more than approximately 6 seconds when the vehicle is in the ON position, or if it turns on while driving after the vehicle is started, the SRS is malfunctioning. In this case, have the system inspected by an authorized Kia dealer.
- The SRS deploys the front air bags only when an impact is sufficiently severe. Additionally, the air bags deploy only once. Always wear seatbelts.
- Front air bags do not deploy in side-impact, rear-impact, or rollover crashes. In addition, front air bags do not deploy in frontal crashes below the deployment threshold.
- Never try to open or repair any components of the curtain airbag system. If necessary, have the system serviced by an authorized Kia dealer.
- Problems may arise if you change the sensor installation angles due to deformation of the front bumper, body, or B pillar where the side collision sensors are installed. In this case, have the system serviced by an authorized Kia dealer.
- Your vehicle absorbs impact and deploys the airbag(s) in certain collisions. Use only Kia Genuine Parts or those of an equivalent standard to install bumper guards or replace a bumper. If not, it may adversely affect your vehicle's collision and airbag deployment performance.
- Turn the vehicle to OFF position and wait for approximately 3 minutes when the vehicle is being towed. The side and curtain air bag may deploy within approximately 3 minutes if the vehicle is in the ON, or OFF position, and the rollover sensor detects a rollover situation.
- Deactivate the passenger's front air bag only when the vehicle is in the OFF position to prevent a malfunction in the SRS Control Module. There may be a risk that the driver's, front passenger's, and/or side and curtain airbags may fail to trigger or may not trigger correctly during a collision.
- Before you replace a fuse or disconnect a battery terminal, turn the vehicle to OFF position. Never remove or replace the air bag-related fuse(s) when the vehicle is in the ON position. If you fail to heed this warning, the SRS air bag warning light will appear.

ⓘ TIP

- The SRS deploys the front air bags only when an impact is sufficiently severe.
- Front air bags do not deploy in side-impact, rear-impact, or rollover crashes. In addition, front air bags do not deploy in frontal crashes below the deployment threshold.
- The side and curtain airbags deploy in certain side impact or rollover conditions severe enough to cause significant injury to the vehicle occupants.

- The air bags inflate instantly in the event of a rollover to help protect the occupants from serious physical injury.
- The side and curtain air bags inflates when a rollover sensor detects a rollover. The air bags may inflate in a rollover when the rollover sensor detects it.
- Although the front air bags (driver's and front passenger's air bags) inflate only in frontal collisions, they also may inflate in other types of collisions if the front impact sensors detect a sufficient impact. Side air bags (side and/or curtain air bags) inflate only in side impact collisions, but they may inflate in other collisions if the side impact sensors detect a sufficient impact. For instance, side air bags and curtain air bags may inflate if rollover sensors detect the possibility of a rollover (even if it does not occur) or in other situations, such as when the vehicle tilts while being towed. Even if side and/or curtain airbags do not provide impact protection in a rollover, they will deploy to prevent ejection of occupants, especially those who are restrained with seat belts. If bumps or objects impact the vehicle chassis on unimproved roads or sidewalks, air bags may deploy. Drive carefully on unimproved roads or surfaces not designed for vehicle traffic to prevent unintended air bag deployment.

Overview



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(1) Passenger's front air bag

(2) Front center side air bag
(3) Driver's front air bag
(4) Driver's knee air bag
(5) Side air bag
(6) Curtain air bag

Even in vehicles with air bags, you and your passengers must always wear the provided safety belts to minimize the risk and severity of injury in the event of a collision or rollover. Airbags are supplemental restraint systems, designed to supplement the protection provided by seatbelts.

How does the air bag system operate?

- Air bags activate (and inflate if necessary) only when the ENGINE START/STOP Button is in the ON position, and they can still activate for about 3 minutes after ignition off.
- The appropriate air bags inflate in the event of a serious frontal or side collision to help protect the occupants from serious physical injury.
- There is no single vehicle speed at which the air bags will inflate. Generally air bags inflate based on the severity of a collision, its direction, and so on. Several factors determine whether the sensors produce an electronic deployment/inflation signal.
- Air bags will not deploy in every crash or collision situations. Air bag deployment depends on a number of factors including vehicle speed, angles of impact, and, the mass and crush characteristics of the vehicles or objects which your vehicle hits in the collision. The determining factors are not limited to those mentioned above.
- The front air bags will completely inflate and deflate quickly. You will find it virtually impossible 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, side and/or curtain air bags will inflate if the sensing system detects a rollover.
- The curtain air bags will remain inflated longer. This helps provide protection from ejection,especially when used in conjunction with the seat belts.
- To provide protection, the air bags must inflate rapidly. The airbag inflates extremely fast between the occupant and the vehicle structures before the occupant impacts the vehicle structures. This speed of inflation reduces the risk of serious or life-threatening injuries and is thus a necessary part of the air bag de sign. However, air bag inflation can also cause injuries, including 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 steering wheel or passenger air bag can cause fatal injuries, especially if the occupant is positioned too close to the steering wheel or passenger air bag.**

Noise and smoke

When the air bags inflate, they make a loud noise and leave smoke and powder in the air inside 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 due to the contact between your chest and both the seat belt and the air bag, as well as from breathing the smoke and powder.

Though smoke and powder are nontoxic, they may irritate the skin (eyes, nose, and throat, and so on). Wash and rinse with cold water immediately and consult a doc tor if the symptom persists.

Do not install a Child Restraint System (CRS) on the front passenger's seat



OLQ2A065091

Never place a rear-facing child restraint in the front passenger's seat.

If the air bag deploys, it will impact the rear-facing child restraint, causing serious or fatal injury.

Do not place front-facing child restraints in the front passenger's seat. If the front passenger air bag inflates, it could cause serious or fatal injuries to the child.

Air bag warning and indicator

Air bag warning light

The air bag warning light in your instrument panel alerts you to a potential problem with your air bag system, which may include the side and/or curtain air bags used for rollover protection.



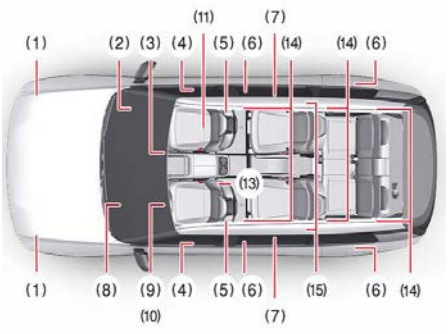
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If the air bag warning light appears for more than 6 seconds after you turn the ENGINE START/STOP button to the ON position, or if it appears during vehicle operation, an SRS component may not be functioning properly, and you should have your vehicle checked by an authorized Kia dealer.

If any of the following conditions occur, this indicates a malfunction in the air bag system. Have an authorized Kia dealer inspect the air bag system as soon as possible.

- The light does not turn on briefly when you turn the ENGINE START/STOP button to the ON position.
- The light stays on after it illuminates for approximately 3-6 seconds.
- The light comes on while the vehicle is in motion.
- The light blinks when you turn the ENGINE START/STOP button to the ON position.

Supplemental Restraint System (SRS) components and functions



OLQ2A066042L

* The actual position of SRS components may differ from the illustration. The SRS consists of the following components:

(1) Front impact sensors
(2) Passenger's front air bag module
(3) SRS control module (SRSCM)/rollover sensor
(4) Side pressure sensors
(5) Front side air bag modules
(6) Side impact sensors
(7) Curtain air bag modules
(8) Driver's knee air bag module
(9) Driver's front air bag module
(10) Air bag warning light
(11) Occupant Detection System
(12) Front driver/passenger's seat belt buckle sensor
(13) Front center side air bag module
(14) Retractor pretensioner assemblies
(15) 2nd row seat side airbag module

The SRSCM monitors all elements while the ENGINE START/STOP Button is in the ON Position or for approximately 3 minutes after ignition off to determine whether a frontal, near-frontal, or side impact is severe enough to require air bag deployment or pretensioner seat belt deployment.

The SRS air bag warning light on the instrument panel will appear for about 3-6 seconds after turning the ENGINE START/STOP button to the ON position, after which the air bag warning light should go out.

⚠ WARNING

If any of the following conditions occurs, this indicates a malfunction of the SRS. Have the system inspected by an authorized Kia dealer.

- The light does not turn on briefly when you turn the ignition ON.
- The light stays on after illuminating for approximately 6 seconds.
- The light comes on while the vehicle is in motion.
- The light blinks when the ENGINE START/STOP button is in ON position.

Driver's front air bag (1)



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The air bag modules are located both in the center of the steering wheel and in the front passenger's panel above the glove box. 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)



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Upon deployment, tear seams molded directly into the pad covers will separate under pressure to allow full inflation of the air bags.

Driver's front air bag (3)



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A fully inflated air bag, in combination with a properly worn seat belt, slows the driver's or the passenger's forward motion, reducing the risk of contact with the steering wheel or instrument panel and distributing the force more evenly over the body. 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.

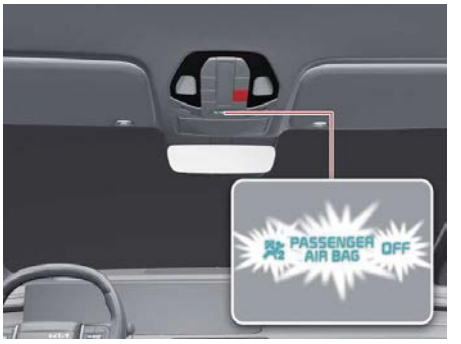
Passenger's front air bag



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Occupant Detection System (ODS)

Your Kia is equipped with an ODS in the front passenger's seat.



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The ODS detects the presence of a properly seated front passenger and determines if the passenger's front air bag should be activated (may inflate) or not. The ODS controls only the front passenger air bag.

Do not put anything in front of the PASSENGER AIR BAG OFF ( ) indicator.

Main components of the Occupant Detection System (ODS)

- A detection device is located within the front passenger seat cushion.
- An electronic system determines whether the passenger airbag system should activate or deactivate.
- The indicator light on the overhead console illuminates the words PASSENGER AIR BAG OFF ( ) to indicate the front passenger airbag system is deactivated.
- The overhead console air bag warning light connects to the ODS.

If the front passenger seat is occupied by a person other than what the system judges to be a properly seated adult (upright with the seatback in an upright position, centered on the seat cushion with their seat belt on, legs comfortably extended and feet on the floor), the PASSENGER AIR BAG OFF ( ) indicator will turn on and the front passenger's air bag will not be able to inflate, if necessary, in frontal crashes.

You will find the PASSENGER AIR BAG OFF ( ) indicator on the overhead console. This system detects the conditions 1-4 in the following table and activates or deactivates the front passenger air bag based on these conditions.

Always make sure that you and all vehicle occupants sit and restrain themselves properly (sitting upright with the seat in an upright position, centered on the seat cushion, with legs comfortably extended, feet on the floor, and wearing the safety belt correctly) for the most effective protection from the air bag and safety belt.

The ODS may not function properly if the passenger takes actions that defeat the detection system. These actions include:

- Failing to sit in an upright position.
- Leaning against the door or center console.
- Sitting towards the sides or the front of the seat.
- Putting legs on the instrument panel or resting them on other locations which reduce the passenger weight on the front seat.
- Improperly wearing the safety belt.
- Reclining the seatback.

Conditions and operation of the front passenger Occupant Detection System (ODS)

Condition detected by the occupant detection system	Indicator/Warning light Devices		Devices
	PASSENGER AIR BAG OFF	SRS warning light	Front passenger air bag
1. Adult [1]	Off	Off	Activated
2. Child Restraint System (CRS) with child under 12 months old [2][3][4]	On	Off	Deactivated
3. Unoccupied	On	Off	Deactivated
4. Malfunction in the system	Off	On	Activated

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

WARNING

- Do not install a child restraint seat in the passenger seat when the seat is heavily soaked with any type of liquid.
- Do not modify the ODS. This may damage the system and prevent its proper function in a collision.

WARNING

- Do not use car seat cushions that cover up the surface of the seat and aftermarket manufactured passenger seat heaters.
- After cleaning the car interior using steam or detergent, dry the seat properly. Afterward, check that the PASSENGER AIR BAG OFF ( ) and air bag warning lights operate normally.
- Any service related to the passenger seat and the ODS must be done at an authorized Kia dealership.
- After you remove or install the passenger seat for repair purposes, check the normal operation of the PASSENGER AIR BAG OFF ( ) and air bag warning lights with a person seated or not seated in the passenger seat.
- When the PASSENGER AIR BAG OFF ( ) symbol appears, the passenger air bag system will not operate. The passenger air bag system will operate when necessary if the symbol does not appear.
- Do not modify or replace the front passenger seat. Do not place or attach anything, such as a blanket, front seat cover, or aftermarket seat heater, to the front passenger seat. This can adversely affect the Occupant Detection System.

WARNING

Occupant Detection System

Riding in an improper position adversely affects the Occupant Detection System and may result in the deactivation of the front passenger airbag, potentially increasing the risk of injury in a crash. It is important for the driver to instruct the passenger as to the proper seating instructions as contained in this manual.



OLQ2A065096

- Do not place a heavy load in the front passenger seatback pocket or on the front passenger seat.



OLQ2A065097

- Do not place feet on the front passenger seatback.



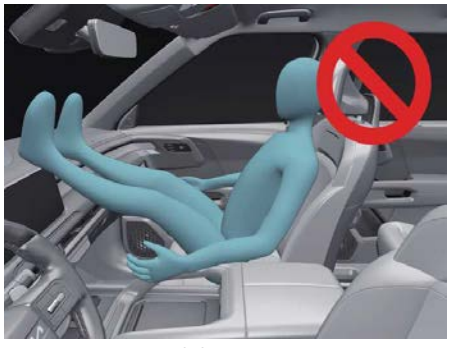
OLQ2A065098

- Never sit with hips shifted towards the front of the seat.



OLQ2A065083

- Never excessively recline the front passenger seatback.



OLQ2A065099

- Never place feet on the instrument panel.



OLQ2A065100

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



OLQ2A065101

- Do not use car seat accessories such as thick blankets and cushions which cover up the car seat surface.
- Do not place electronic devices such as laptops, DVD players or heavy objects on the passenger seat.
- Wet passenger seat: Do not spill liquid in the passenger seat. Spilled liquid on the passenger seat may cause the air bag warning light to appear or malfunction. If any liquid is spilled, make sure the seat has been completely dried before driving the vehicle.

Proper position



OLQ2A065102

When an adult is seated in the front passenger seat, if the PASSENGER AIR BAG OFF ( ) indicator is on, change the ENGINE START/STOP button to the OFF position and ask the passenger to sit properly (sitting upright with the seatback in an upright position, centered on the seat cushion with their seat belt on, legs comfortably ex tended and their feet on the floor). Restart the vehicle and have the person remain in that position. This will allow the system to detect the person and to enable the passenger air bag.
If the PASSENGER AIR BAG OFF ( )indicator is still on, ask the passenger to move to the rear seat.

WARNING

PASSENGER AIR BAG OFF ( ) **light**

Do not allow an adult passenger to ride in the front seat when the PASSENGER AIR BAG OFF ( ) indicator is illuminated, because the air bag will not deploy in the event of a collision. Have the passenger reposition in the seat. Failure to properly position yourself may lead to air bag deactivation resulting in air bag non-deployment in a collision. If the PASSENGER AIR BAG OFF ( ) indicator remains illuminated after repositioned properly and the vehicle is restarted, have the passenger move to the rear seat because the passenger's front air bag will not deploy.

TIP

The PASSENGER AIR BAG OFF ( ) indicator does not illuminate if the front passenger seat is occupied. The occupant detection sensor will classify the front passenger after a few more seconds. Also, if you turn the ENGINE START/STOP button to the ON position after approximately 3 minutes have passed since the vehicle was in the OFF position, the system will activate.

- Even though your vehicle has the Occupant Detection System, never install a Child Restraint System in the front passenger's seat. A deploying air bag can forcefully strike a child resulting in serious injuries or death.

Any child under age 13 should ride in the rear seat. Children too large for child restraints should use the available lap/shoulder belts. No matter what type of crash, children of all ages generally speaking are safer when restrained in the rear seat.

If the ODS does not function properly, the Supplemental Restraint System (SRS) air bag warning light on the instrument panel will appear because the passenger's front air bag is connected with the ODS. If the ODS malfunctions, the PASSENGER AIR BAG OFF ( ) indicator will not appear. In this case, the passenger's front airbag will inflate in frontal impact crashes even if there is no occupant in the front passenger seat.

Driver's and passenger's front air bag

Your Kia is equipped with an advanced supplemental restraint (air bag) system and lap/shoulder belts at both the driver and passenger seating position.

Driver's front air bag / Passenger's front air bag



OLQ2A065044

(1) Driver's front air bag
(2) Passenger's front air bag

Driver's knee air bag



OLQ2A065045

(3) Driver's knee air bag

The indicators display the words AIR BAG on the airbag pad cover of the steering wheel, on the driver's side knee bolster cover below the steering wheel, and on the passenger's side front panel pad above the glove box.

The Supplemental Restraint System (SRS) includes airbags located under the pad covers in the center of the steering wheel, in the knee bolster below the steering wheel column, and in the passenger's side front panel above the glove box.

The SRS provides the vehicle's driver and/or front passenger with additional protection from the seat belt system alone in the event of a sufficiently severe frontal impact. impact of sufficient severity. The SRS uses sensors to gather information about the seat belt usage of the driver and front passenger, as well as the impact severity.

The seat belt buckle sensor determines if the front passenger's seat belt is fastened. These sensors provide the ability to control the SRS deployment based on whether the seat belts are fastened, and how severe the impact is.

The advanced SRS controls air bag inflation with two levels. The first stage level activates for moderate impacts, while the second stage level activates for severe impacts.

The SRS Control Module (SRSCM) controls air bag inflation based on impact severity and seat belt usage. Failing to wear seat belts properly increases the risk or severity of injury in an accident.

Your Kia is equipped with an ODS in the front passenger's seat. The ODS detects the presence of a passenger in the front passenger's seat and will turn off the front passenger's air bag under certain conditions. For more detail, see "Occupant Detection System (ODS)" on page 270.

Government regulations require manufacturers to provide a contact point concerning modifications to the vehicle for persons with disabilities, as these modifications may affect the vehicle's advanced air bag system. That contact is Kia's toll- free Customer Assistance center at 1-800-333-4542 (U.S. only). However, Kia neither endorses nor will it support any changes to any part or structure of the vehicle that could affect the advanced air bag system, including the ODS.

Advanced air bags combine with pretensioner seat belts to help provide enhanced occupant protection in frontal crashes. Front air bags do not deploy in collisions where the seat belt provides sufficient protection.

Front air bags do not deploy in side impacts, rear impacts or rollovers. When the frontal deployment threshold is satisfied in a side impact, the front air bags may deploy. Front air bags will not deploy in frontal impacts below the deployment threshold.

TIP

Refer to the WARNING, CAUTION and NOTE of "Precautions" on page 262

Side air bag and front center side air bag

Your Kia is equipped with a side air bag in each front seat, 2nd row seat.



OLQ2A065047



OLQ2A065046

(1) Side air bag

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



OLQ2A065048



OLQ2A065049

(2) Front center side air bag

Air bags are designed to provide the vehicle's driver, front passenger, and 2nd-row outboard passengers with additional protection compared to that offered by the seat belts alone.

- The side air bags and front center side air bag deploy during certain side impact collisions, depending on the crash severity.
- The side air bags may deploy on the side of the impact or on both sides.
- The side curtain air bags on both sides deploy if a rollover or possible rollover occurs.
- The side air bags and front center side air bag do not deploy in all side impact or rollover situations.

- The side air bag supplements the driver's and passenger's seat belt systems and does not replace them. Always wear your seat belts while the vehicle is in operation.
- To ensure the best protection from the side air bag system and to avoid injury from the deploying side air bag, both front seat occupants must sit upright with their seat belts properly fastened. The driver must place their hands on the steering wheel at the 9: 00 and 3: 00 positions. The passenger must place their arms and hands on their lap.
- If the seat or seat cover is damaged, have the vehicle checked and repaired by an authorized Kia dealer.

TIP

Refer to the WARNING, CAUTION and NOTE of "Precautions" on page 262

Curtain air bag

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



OLQ2A065050



OLQ2A065051

(1) Curtain air bag

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

They help protect occupants in certain side impacts and reduce the risk of ejection during a rollover, especially when the seat belts are also used.

- The curtain air bags deploy during certain side impact collisions, depending on collision severity, angle, speed and point of impact.
- The curtain air bags may deploy on the side of the impact or on both sides.
- The curtain air bags on both sides deploy in certain rollover situations.
- The curtain air bags do not deploy in all side impact or rollover situations.

Do not allow the passengers to lean their heads or bodies against the doors, extend arms on the doors, stretch their arms out of the window or place objects between the doors and passengers when they are seated on seats equipped with side impact and/ or curtain air bags.

TIP

Refer to the WARNING, CAUTION and NOTE of "Precautions" on page 262

Air bag collision sensors



OLQ2A065052_5

* The actual shape and position of sensors may differ from the illustration.

(1) Front impact sensor
(2) Supplemental Restraint System (SRS) control module/rollover sensor
(3) Side pressure sensors (front door)
(4) Side impact sensor (B-pillar)
(5) Side impact sensor (C-pillar)

WARNING

Air bag sensors

- Do not hit or allow any objects to impact the locations where air bags or sensors are installed. This may cause unexpected air bag deployment, which could result in serious personal injury or death.
- If the installation location or angle of the sensors is altered in any way, the air bags may deploy when they should not or they may not deploy when they should. Do not perform maintenance on or around the air bag sensors. Have the vehicle checked and repaired by an authorized Kia dealer.

- Do not contact the front impact sensor. When the angle of the sensor is changed, the air bag system may malfunction.

Changing the sensor installation angles due to deformation of the front bumper, front end module, body, or front doors where side collision sensors are installed may cause problems. Have the vehicle checked and repaired by an authorized Kia dealer.

Installing bumper guards, side step or running boards, or replacing a bumper (or front door module) with non-genuine parts may adversely affect your Kia collision and air bag deployment performance.

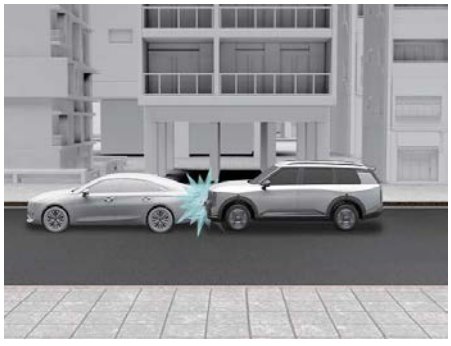
Kia Genuine bumper guards/bumpers are guaranteed for quality and performance.

Why didn't my air bag go off in a collision? (Inflation and non-inflation conditions of the air bag)

Many types of accidents do not require the air bag to provide additional protection.
These include rear impacts, second or third collisions in multiple impact accidents, as well as low speed impacts.

Air bag inflation conditions

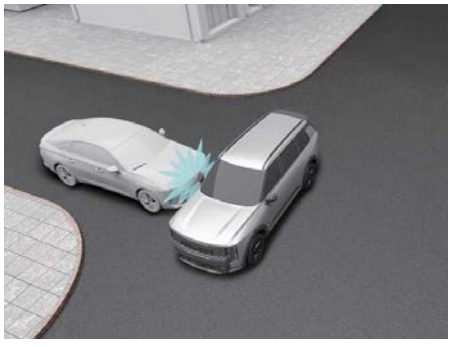
Front air bags



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Front air bags inflate in a frontal collision depending on several factors, including the severity of the impact of the front collision.

Side and curtain air bags and front center side air bag



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

Side and/or curtain air bags and front center side air bag inflate when side collision sensors detect an impact, depending on several factors, including the severity of the impact from a side collision.

The side and curtain air bags and front center side air bag inflate when a rollover sensor detects a rollover (or possible rollover).

Although the front air bags (driver's and front passenger's air bags) primarily inflate in frontal collisions, they may inflate in other types of collisions if the front impact sensors detect sufficient frontal force in those impacts.

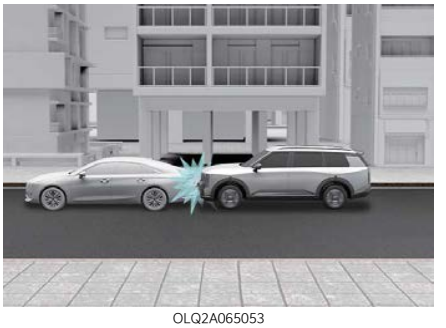
Similarly, although side and curtain air bags and front center side air bag inflate in certain side impact collisions, they may also inflate in other types of collisions where sensors detect a side force. For instance, side and curtain air bags and front center side air bag may inflate if rollover sensors detect the possibility of a rollover (even if none occurs) or in other situations, such as when the vehicle tilts while being towed.

Even if side and curtain air bags and front center side air bag do not provide impact protection in a rollover, they will deploy to help prevent ejection of occupants, especially those who are restrained with seat belts.

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

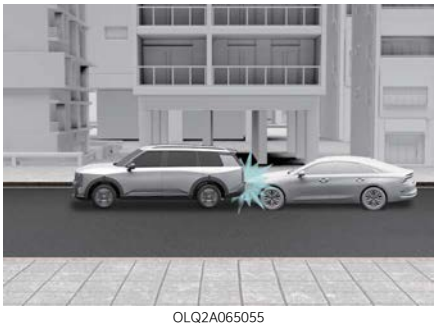
Air bag non-inflation conditions

- Air bags may not deploy in certain low-speed collisions where the air bag would not add any protection beyond what is already offered by the seat belts.



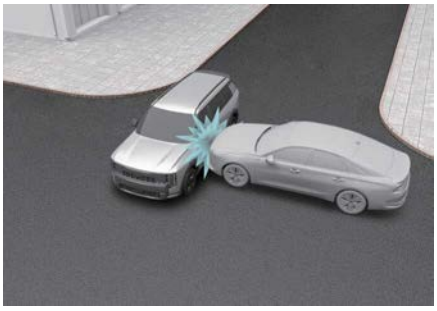
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- Front air bags are not designed to inflate in rear collisions, because occupants are moved backward by the force of the impact. In this case, inflated air bags would not be able to provide any additional benefit.



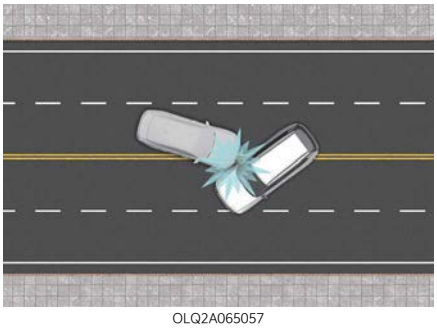
OLQ2A065055

- Front airbags may not inflate in side impact collisions because passengers move towards the point of impact. Therefore, in side impacts, frontal airbag deployment would not provide any additional protection.



OLQ2A065056

- In an angled collision, the force of impact may move the occupants in a direction where the air bags would not provide any additional protection; therefore, the sensors may not deploy any air bags.



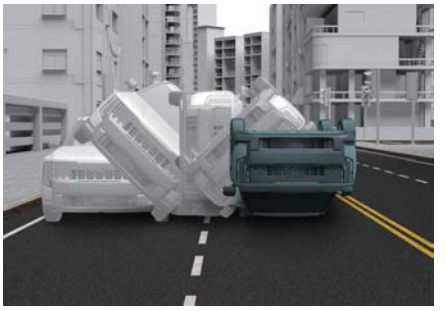
OLQ2A065057

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 situation because deceleration forces that are detected by sensors may be significantly reduced by such "under-ride" collisions.



OLQ2A065058

- Front air bags may not inflate in rollover accidents when the SRS Control Module (SRSCM) indicates that the front air bag deployment would not provide additional occupant protection.



OLQ2A065059

- Airbags may not inflate if the vehicle collides with an object such as a utility pole or tree. This is because the point of impact is concentrated in a single area, and the full force of the impact is not delivered to the sensors.



OLQ2A065060

Supplemental Restraint System (SRS) care

The Supplemental Restraint System (SRS) is virtually maintenance-free, so there are no parts you can safely service by yourself.

The Supplemental Restraint System (SRS) is virtually maintenance-free and so there are no parts you can safely service by yourself.
If the SRS air bag warning light does not appear, or continuously remains on, have your vehicle immediately inspected by an authorized Kia dealer.
Any work on the SRS, such as removing, installing, repairing, or any work on the steering wheel, the front passenger's panel, front seats and roof rails must be performed by an authorized Kia dealer. Improper handling of the SRS may result in serious personal injury.
To clean the air bag pad covers, use only a soft, dry cloth or one moistened with plain water. Solvents or cleaners can adversely affect the air bag covers and prevent the proper deployment of the system.
If you must discard components of the air bag system or scrap the vehicle, you must observe certain safety precautions. An authorized Kia dealer knows these precautions and can give you the necessary information. Failure to follow these precautions and procedures could increase the

risk of bodily injury.

WARNING

Tampering with SRS

Do not tamper with or disconnect SRS wiring or other components of the SRS system. Doing so could result in the accidental inflation of the air bag or render the SRS inoperative.

WARNING

Towing vehicle

Always have the ignition off and wait for 3 minutes when your Kia is being towed. The side air bags may inflate if the vehicle is tilted such as when being towed because of the rollover sensors in the vehicle.

Recap of important safety precautions

- **Never allow passengers to ride in the cargo area or on top of a folded-down back seat.** All occupants must sit upright, fully back in their seats with their seat belts on and feet on the floor.
- **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 out of the vehicle.**
- **Each seat belt restrains only one occupant.** If multiple people use the same seat belt, they may suffer serious injury or death in a collision.
- **Do not use any accessories on seat belts.** Devices claiming to improve occupant comfort or reposition of the seat belt can reduce the protection provided by the seat belt and increase the chance of serious injury in a crash.
- **Passengers should not place hard or sharp objects between themselves and the air bags.** Carrying hard or sharp objects on your lap or in your mouth can result in injuries if an air bag inflates.
- **Keep occupants away from the air bag covers.** All occupants should sit upright, fully back in their seats with their seat belts on and their feet on the floor. If occupants are too close to the air bag covers, they could be injured if the air bags inflate.
- **Do not attach or place objects on or near the air bag covers.** Any object attached to or placed on the front or side air bag covers could interfere with the proper operation of the air bags.
- **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.
- **Never hold an infant or child on your lap.** The infant or child could be seriously injured or killed in the event of a crash. You should properly restrain all infants and children in appropriate child safety seats or seat belts in the rear seat.

WARNING

- Sitting improperly or out of position can cause occupants to be shifted too close to a deploying air bag, strike the interior structure or be thrown from the vehicle resulting in serious injury or death.
- Always sit upright with the seatback in an upright position, centered on the seat cushion with your seat belt on properly, legs comfortably extended and your feet on the floor.

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

The U.S. National Highway Traffic Safety Administration (NHTSA, U.S. only) requires some air bag warning labels, which are attached to the sun visor to alert the driver and passengers of potential risks associated with the air bag system.



OLQ2A065109

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Controls and features

Infotainment system

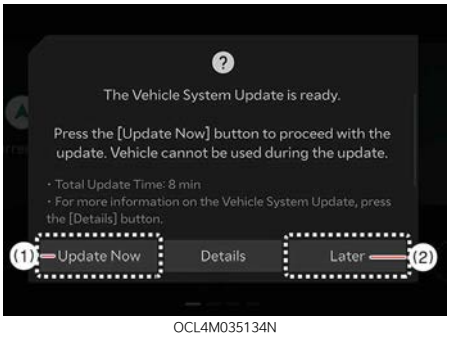
Over-The-Air (OTA) software update

The OTA software update feature allows you to wirelessly update software to the latest version. Using this feature, you can keep your vehicle system updated with the latest software. To receive OTA updates, you need to have a Kia Connect service.

Downloading software

The latest software can be downloaded automatically while driving. A notification appears on your phone through the Kia Access app or the vehicle screen that the software update is ready to install. The next time the vehicle is turned off, you can choose to start the update.

Approving software update



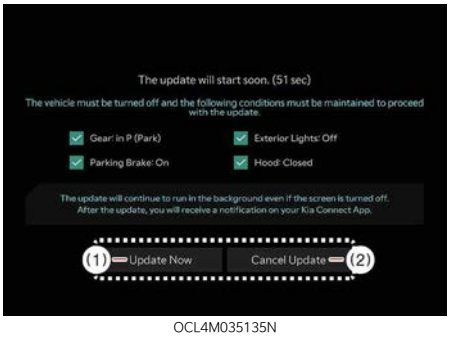
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(1) **Update Now**
(2) **Later**

After you turn the vehicle off, the vehicle system allows you to start the update.

- To start the update, press **Update Now** (1).
- To postpone the update, press **Later** (2).

Preparing software update



OCL4M035135N

(1) **Update Now**
(2) **Cancel Update**

If you press the **Update Now** button on the screen, the vehicle begins installing the update automatically. The following conditions must be satisfied:

- The vehicle must be in OFF position.
- The vehicle must be in P (Park).
- The parking brake must be applied.
- The exterior lights must be turned off.
- The hood must be closed.
- The vehicle's 12V battery must be sufficiently charged.
- The systems to be updated must not be running.
- To update immediately, press **Update Now**.
- To cancel the update, press **Cancel Update**.

TIP

The vehicle automatically checks the battery and system status.

Updating software



OCL4M035137N

(1) **Details**
(2) **Close**

You can see the progress of the update on the screen. At some point during the update, the screen may turn off and back on.
You will receive a notification on your phone through the Kia Access app or the vehicle screen that indicates that the software update is complete.

TIP

- To save battery life, the screen turns off automatically after 3 minutes. You can check the update progress by pressing the ENGINE START/STOP button.
- You can exit the vehicle after the update starts.
- The Over-The-Air (OTA) software update feature is only available for Kia Connect service users.
- The update details may vary depending on the installed software version.
- If the update fails, the system will automatically initiate update recovery. If you'd like to retry the software update after a successful recovery, press the Start button on the screen, and the vehicle will begin installing the update automatically.
  If both the update and recovery fail, please contact an authorized Kia dealer.

- Once the update is complete, a message will appear on the screen. Press **Details** or scan the QR Code for update detail information.

TIP

- Observe the following restrictions during the update:
  - You cannot use the vehicle during the update. Be sure you have enough time for the update, and safely park the vehicle before starting the update process.
  - You cannot use remote features, including remote start.
  - You cannot charge the vehicle. Charge your vehicle after completing the update.
  - The Rear Occupant Alert may not work. Visually check if there are any occupants in the rear seat after the update starts.
  - If the digital key function is included in the update history, the door lock/unlock function through digital key or fingerprint authentication may not work. Check the update history for notices, and if the digital key function is updated, use the smart key button to lock or unlock the door.
- The update is automatically canceled if any required vehicle conditions change before you start the update.
- You cannot cancel the update after it has started.
- You cannot use the OTA software update feature if you modify or replace any vehicle software.
- Do not open the hood or replace the battery in the vehicle during the update. The update may fail.
- The high-voltage-related module for charging the 12V battery may activate during the software update.
- If a diagnostic tool / dongle of any kind is connected to the vehicle On-board Diagnostic (OBD) terminal, the vehicle cannot be updated. The vehicle can be updated by removing the diagnostic tool / dongle connected to the OBD terminal and then restarting the vehicle.
- Vehicle reception must be identified to safely install any downloaded software.
- Vehicle signal strength must be strong (above -82 dBm) to safely install any downloaded software.

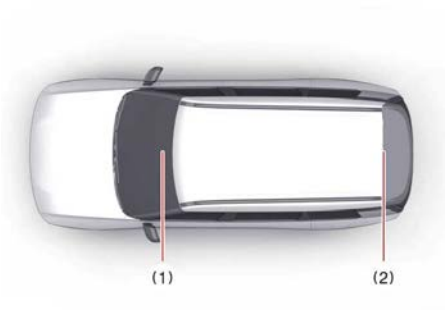
Audio system

NOTE

- If you install an aftermarket High Intensity Discharge (HID) headlight, your vehicle's audio and electronic devices may malfunction.
- When attaching metallic tinted paper to the glass, the communication function of the hi-pass system, radio reception function, connected car service, and automatic headlight turn-on function may not work normally. Also, be careful as the solution used in the construction of the tinted paper may permeate the inside of the vehicle, which may cause the electronic device to fail.

* If your vehicle is equipped with an infotainment system, refer to the separately supplied manual for detailed information.

Glass antenna



OLQ2A055019

(1) Windshield glass antenna (if equipped)
(2) Rear glass antenna

The glass type antenna transmit and receive signals such as AM/FM or GPS (if equipped). Additional signals are sent and received according to vehicle options.

USB port

Use the USB port to plug in a USB stick.



OLQ2A085002

- You can use a USB cable to connect audio devices to the vehicle's USB port.
- After connecting a media storage device such as an MP3 player or USB drive, you can play music through the vehicle speakers or the infotainment system.
- Small electronic devices can also be charged through the USB port.

NOTE

- Some devices may not charge when connected to the USB port.
- When using a portable audio device connected to the power outlet, noise may occur during playback. If this happens, disconnect the USB cable and use the portable audio device's own power source.

How vehicle radio works

Transmitter towers located around your city broadcast AM and FM radio signals. The radio antenna on your vehicle intercepts these signals. The radio processes these signals and sends them to your vehicle speakers.

In some cases, the signal coming to your vehicle may not be strong and clear.

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

FM reception

FM broadcasts are transmitted at high frequencies and do not bend to follow the earth's surface. Because of this, FM broadcasts generally begin to fade within short distances from the station. FM signals are easily affected by buildings, mountains, and obstructions. The obstructions can cause unpleasant listening conditions. This is not a problem with your radio.

AM reception

AM broadcasts are received at greater distances than FM broadcasts because AM radio waves are transmitted at low frequencies. These long distance, low frequency radio waves follow the curvature of the earth rather than traveling straight. In addition, they curve around obstructions

resulting in better signal coverage.

Radio station

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 the sound will begin to fade. When this occurs, select another station with a stronger signal.
- Flutter or static: Weak FM signals or large obstructions between the transmitter and your radio can disturb the signal, causing static or fluttering noises. Reducing the treble level may lessen this effect until the disturbance clears.
- Station swapping: As an FM signal weakens, a 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 received from several directions can cause distortion or fluttering. This is caused by a direct and reflected signal from the same station, or by signals from 2 stations with close frequencies. Select another station until the condition has passed.

Using a mobile phone or 2-way radio

Using a mobile phone inside the vehicle may produce noise from the audio system. This does not mean that something is wrong with the audio equipment. Operate mobile devices as far from the audio equipment as possible.

When using a communication system (such as a mobile phone or a radio set) inside the vehicle, you must affix a separate external antenna. When you use a mobile phone or radio set with only the internal antenna, it may interfere with the vehicle's electrical system and adversely affect the safe operation of the vehicle.

WARNING

Distracted driving

Driving while distracted can result in a loss of control that may lead to an accident, severe bodily injury, or death. The driver's primary responsibility is in the safe and legal operation of a vehicle. Any use of handheld devices, other equipment, or vehicle systems that take the driver's eyes, attention, and focus away from the safe operation of a vehicle should never be used while driving.

WARNING

Mobile phone use

Do not use a mobile phone while driving. Stop at a safe location to use a mobile phone.

AI Assistant (if equipped)



OLQ2A085066

AI Assistant can be operated using voice recognition.

Press the **AI Assistant** button or say "Hey, Kia."

Example (Vehicle control)

- "Turn on the air conditioner."
- "Turn off the air conditioner."

Example (Question)

- "Can you explain why the ocean is blue in a way that a 7-year-old can understand?"

> **TIP**
>
> **AI Assistant** may provide inaccurate answers. Please check important details separately.

Declaration of conformity

FCC

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult a Kia dealer or an experienced radio/TV technician for help.

TIP

Any changes or modifications to this device that are not explicitly approved by the manufacturer could void your authority to operate this equipment.

This device complies with Part 15 of the FCC rules.

Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. this device must accept any interference received, including interference that may cause undesired operation.

TIP

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Welcome system

The welcome system displays the surroundings or the interior when the driver approaches or exits the vehicle.

> **TIP**
>
> The infotainment system may change after software updates. For more information, refer to the user's manual provided in the infotainment system and the quick reference guide.

Puddle lamp



OLQ2A085086

Welcome light function

When all the doors and the liftgate are closed and locked, the puddle lamp will illuminate for about 15 seconds if the door is unlocked by the smart key or when you put your hand in the outside door handle with the smart key in possession.

Escort light function

When the vehicle is in OFF position and the driver's door is opened, the puddle lamp will turn on for about 30 seconds.
If the driver's door is closed within the 30 second period, the puddle lamp will turn off after 15 seconds. If the driver's door is closed and locked, the puddle lamp will turn off immediately.
The escort light function will turn on only the first time the driver's door is opened after the vehicle is turned off.

Door handle lamp

Select **Settings > Vehicle > Lights > Welcome Mirror/Light > On Door Unlock** or **On Driver Approach** from the infotainment system screen.

When all the doors and the liftgate are closed and locked, the door handle lamp will illuminate for about 15 seconds if you perform any of the following actions:

- You press the smart key's door unlock button.
- You press the button on the outside door handle.
- You approach the vehicle with the smart key in your possession.

Headlight escort function

Select **Settings > Vehicle > Lights > Welcome Mirror/Light > On Door Unlock** or **On Driver Approach** from the infotainment system screen.

The headlights and taillights remain on for approximately 5 minutes after you turn the vehicle to OFF or set the vehicle to ON position. If you open and close the driver's door, the headlights will turn off after 15 seconds.

You can turn the headlights off by pressing the lock button on the smart key twice, or by turning the light switch to OFF.

Interior light

When the **DOOR OFF** indicator light is off, and all doors and the liftgate are locked and closed, the interior light illuminates for 30 seconds if you perform any of the following actions with the smart key:

- You press the smart key's door unlock button.
- You touch the sensor on the outside door handle.

If you press the smart key's door lock button, the lamps will turn off immediately.

Dynamic welcome light (if equipped)

This feature dynamically represents the vehicle's lights for a certain period of time when the driver unlocks the vehicle, enhancing its aesthetic appeal.

Select **Settings > Vehicle > Lights > Headlight time-out** from the infotainment system screen.

Dynamic welcome light will turn on when the Headlight escort function operational conditions are met.

Dynamic escort light (if equipped)

This feature dynamically represents the vehicle's lights for a certain period of time when the driver turns off the vehicle with the headlamps on, enhancing its aesthetic appeal.

Select **Settings > Vehicle > Lights > Headlight time-out** from the infotainment system screen.

Dynamic welcome light will turn on when the Headlight escort function operational conditions are met.

Ground lighting (if equipped)

Ground lighting is feature that uses the front head lamp, rear door lamp (2nd row) and reversing lamp of the vehicle as lighting to improve visibility during outdoor activities in low-light conditions.

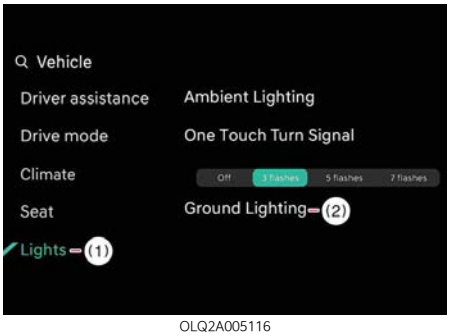


OLQ2AXL085002



OLQ2AXL085001

Ground lighting settings



OLQ2A005116

(1) **Lights**

(2) **Ground Lighting**

The function is available when the vehicle is in Park (P) and the vehicle's headlights are set to AUTO.

Select **Setup > Vehicle > Lights > Ground Lighting** from the infotainment system to check if the ground lighting function is ON and select the lighting area.

The ground lighting is activated when the vehicle is in OFF position. Depending on the vehicle's 12V battery status, the function may be unavailable or the length of time the lighting stays on may vary. This feature is automatically disabled when the vehicle is started.

To disable ground lighting function, finished using, select **Setup > Vehicle > Lights > Ground Lighting** from the infotainment system or press the lock button on the smart key twice to turn off the ground lights.

NOTE

- To turn off the tail lamps, uncheck **Front** from the infoainment system.
- The ground lighting function automatically turns off when the vehicle's 12V battery is low.
- The ground lighting function keeps the lights on for up to approximately 25 minutes.

TIP

The infotainment system may change after a software update. For more details, refer to the user's manual in the infotainment system or the quick reference guide.

Lighting pattern (if equipped)

The lighting pattern function projects various patterns in front of the vehicle.



OLQ2A085067

- When the vehicle is in ON position, select **Setup > Vehicle > Lights > Lighting Patterns** from the infotainment system to select the type of the provided pattern.
- After selecting a pattern, the chosen pattern will be applied when the vehicle is turned off and restarted.
- Four default patterns are provided.

TIP

The infotainment system may change after a software update. For more details, refer to the user's manual in the infotainment system or the quick reference guide.

Interior lights

This vehicle is equipped with lights to illuminate its interior.

WARNING

Do not use the interior lights when driving in the dark. Accidents could happen because the interior lights may obscure your view, resulting in serious injury or death.

TIP

To avoid 12V battery discharge, do not use the interior lights for extended periods when the vehicle is not running.

Automatic turn off function

If the interior lights are on, they will automatically turn off approximately 20 minutes after you turn the vehicle off.

If your vehicle is equipped with the theft alarm system, the interior lights automatically turn off approximately 5 seconds after the system is armed.

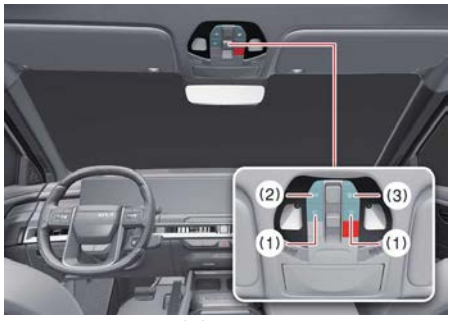
Interior lights always on

Interior lights always on function keeps the interior button lights illuminated at all times, day or night, making it easier to locate the buttons.

Select **Settings > Vehicle > Lights > Interior Lights Always On** from the infotainment system to activate Interior lights always on function.
The interior button lights turn on or off under the following conditions:

- When all doors are closed and locked, if you unlock and open a door, the interior button lights will remain on for approximately 5 minutes.
- When the vehicle is turned off, the interior button lights will remain on for approximately 5 minutes.
- During this time, if you open and close the door or lock it, the lights will turn off immediately.

Map light



OLQ2A085003

(1) : If you press the button at each location, the map lamp of the corresponding location turns on, and if you press it again, the lamp turns off.

If you press and hold the corresponding button for about 1.5 seconds or more while the lamp is on, the brightness of the left and right map lamps changes, and if you release the button at the desired brightness, the set brightness is saved.

(2) : The front and rear seat lamps turn on, and pressing again turns all lamps off.

If you press and hold the corresponding button for about 1.5 seconds or more while the status indicator is on, the brightness of the front and rear seat lamps changes simultaneously. When you release the button at the desired brightness, the set brightness is saved.

To reset the overall brightness of the interior lights, press and hold for more than 3 seconds while the status indicator is off, the lights blink twice and are initialized.

(3) : DOOR mode

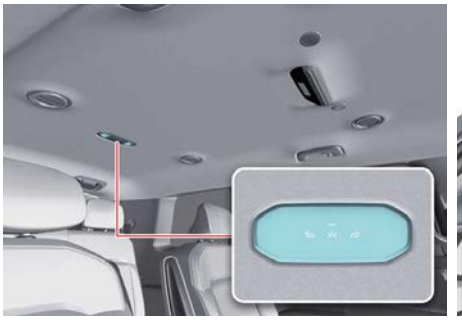
- **Indicator OFF**
  - The lamp turns on when the door is opened and turns off after closing for about 30 seconds.
  - When unlocking the door with the smart key, the lamp turns on for about 30 seconds and then turns off.
  - When the interior lights remain on for about 30 seconds, they turn off immediately when the vehicle is started or all doors are locked.
  - When the door is opened if the vehicle is in OFF or ON position, the interior light turns on for a maximum of about 10 minutes and then turns off. If the vehicle is in on position, it will stay on continuously.
- **Indicator ON**
  - The operation of the interior light functions with the opening and closing doors.

TIP

You cannot select the DOOR and ROOM modes at the same time.

Interior light

Room lamp (2nd/3rd row)



OLQ2A085004

Personal lamp (if equipped)



OLQ2A085005

Press the button to turn the cabin light on or off.

Luggage compartment light



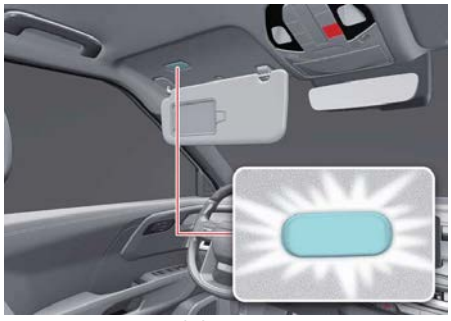
OLQ2A085006

- : The light will always turn on when you open or close the liftgate.
- : The light is on when the liftgate is open and off when the liftgate is closed.
- : The light always turns off when the liftgate is opened or closed.

NOTE

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

Vanity mirror light



OLQ2A085008

The lamp turns on automatically when the sun visor vanity mirror cover is opened.

NOTE

Vanity mirror lamp
Always close the vanity mirror and turn it off when not in use. If you close the sun visor with the vanity light on, this may damage the sun visor or cause the 12V battery to discharge.

Glove box light (if equipped)



OLQ2A085009

The glove box light will illuminates when you open the glove box.

NOTE

To prevent unnecessary charging system drain, close the glove box securely after opening it.

Center console storage light (if equipped)

The center console storage light turns on when the center console storage is opened.



OLQ2A085081

Liftgate light (if equipped)

The liftgate light can be used to enhance night time visibility under the liftgate.



OLQ2AH085013

(1) Liftgate light ON/OFF button
(2) Brightness/Light temperature slider
(3) Light temperature button

- Press the liftgate light ON/OFF button (1) to turn on or off the liftgate light.
- Slide the brightness/light temperature slider to adjust the brightness (10-100%) or light temperature (3,000-6,000 K) to the desired value.
- Press the light temperature button to adjust the light temperature in 3 modes:
  - Warm white: 4,500 K
  - Neutral white: 6,000 K
  - Cool white: 3,000 K

Ambient light (if equipped)

The ambient lights are applied to the front instrument panel, front/rear door and center console.

Instrument panel



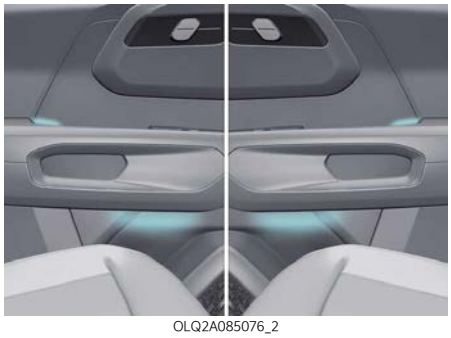
OLQ2A085068

Front door



OLQ2A085075_2

Rear door



OLQ2A085076_2

Center console



OLQ2A085087

When the vehicle is in ON position, select **Settings > Vehicle > Lights > Ambient Lighting** from the infotainment system.

TIP

The infotainment system may change after a software update. For more details, refer to the user's manual in the infotainment system or the quick reference guide.

Climate control system

The climate control system cools or heats the inside of the vehicle for the comfort of you and your passengers.

System operation

Ventilation

1. Set the air intake to .
2. Set the air intake control to external air.
3. Set the temperature control to the desired position.
4. Set the fan speed control to the desired speed.

Heating

1. Set the mode to .
2. Set the air intake control to external air.
3. Set the temperature control to the desired position.
4. Set the fan speed control to the desired speed.
5. For dehumidified heating, turn the air conditioning system ON.
   If the windshield fogs up, set the mode to or .

Heating system operation tips

- To keep dust or unpleasant fumes from entering the vehicle through the ventilation system, temporarily set the air intake control to recirculated air. Be sure to return the control to external air intake when the irritation has passed to keep fresh air in the vehicle.
- The climate control system draws air through the grille just at the base of the windshield. Ensure that the grille is not blocked by leaves, snow, ice, or other obstructions.
- To prevent fog from forming on the inside of the windshield:
  - Set the air intake control to external and the fan speed to the desired position.
  - Turn on the air conditioning system and adjust the temperature control to the desired temperature.

Air conditioning (A/C)

Kia A/C systems are filled with R-1234yf refrigerant.

1. Start the vehicle. Press the A/C button.
2. Set the mode to .
3. Set the air intake control to external or recirculated.
4. Adjust the fan speed control and temperature control as desired.

⚠ CAUTION

- The refrigerant system should only be serviced by trained and certified technicians to ensure proper and safe operation.
- The refrigerant system should be serviced in a well-ventilated place.

- The air conditioning evaporator (cooling coil) should never be repaired or replaced with a cooling coil that was removed from a used or salvaged vehicle. Replacement Mobile Air Conditioning (MAC) evaporators should be certified (and labeled) as meeting SAE Standard J2842.

NOTE

Excessive air conditioning use

If you use the A/C system when outside temperatures are high, monitor the temperature gauge closely while driving up hills or in heavy traffic, as A/C system operation may cause the vehicle to overheat. If the temperature gauge indicates that the vehicle is overheating, you may continue to use the blower fan, but turn off the A/C system.

NOTE

To prevent condensation inside the vehicle that may damage electrical components, only use the A/C system with the windows and sunroof closed.

A/C 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.
- To help reduce moisture inside the windows on rainy or humid days, decrease the humidity inside the vehicle by operating the air conditioning system.
- During air conditioning system operation, you may occasionally notice a slight change in the vehicle speed as the A/C compressor runs. This is normal.
- Run the A/C system for a few minutes each month to ensure optimal system performance.
- When using the A/C system, you may notice clear water dripping or puddling on the ground under the passenger side of the vehicle. This is normal.
- Operating the A/C system with the air intake set to recirculated provides maximum cooling, but continued operation with recirculated air may cause the air inside the vehicle to become stale.
- When using the A/C system, you may occasionally notice a misty air flow because of rapid cooling of humid air intake. This is normal.

Climate control air filter

The climate control air filter removes dust and other pollutants that enter the vehicle from the outside. If dust or other pollutants accumulate in the filter over time, the airflow from the air vents may decrease. This leads to moisture accumulating on the inside of the windshield even when the fresh air intake mode is selected.

At this time, replace the climate control filter. If you find it challenging to do so yourself, have the climate control filter replaced by an authorized Kia dealer. For details on how to replace the climate control air filter, refer to "Climate control air filter" on page 717.

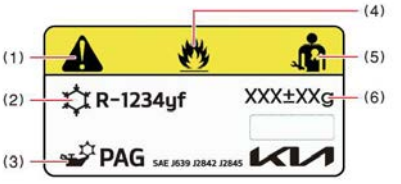
NOTE

Replace the climate control air filter according to the Maintenance Schedule. Failure to replace the climate control air filter on a regular basis can result in decreased airflow, diminished heating and cooling performance, and unpleasant odors.

TIP

If the airflow from the air vents suddenly decreases, have your vehicle checked by an authorized Kia dealer.

Air conditioning (A/C) refrigerant label



OLQ2A085010

* The A/C refrigerant label in the vehicle may differ from the illustration.

Each symbol and specification on the A/C refrigerant label is represented below:

(1) Caution
(2) Classification of refrigerant
(3) Classification of compressor lubricant
(4) Flammable refrigerant
(5) Requires a registered technician to service the A/C system
(6) Amount of refrigerant

The refrigerant label is located underneath the hood.

Refer to "Refrigerant label" on page 35 for more information on the location of the air conditioning refrigerant label.

Checking the amount of air conditioner (A/C) refrigerant and compressor lubricant

Low refrigerant reduces the A/C system performance. Overfilling the refrigerant also adversely impacts the A/C system.

If abnormal operation occurs, have your vehicle checked by an authorized Kia dealer.

WARNING

The oil and refrigerant in your vehicle's A/C system are under very high pressure. If proper service procedures are not followed, an explosion may result. To reduce the risk of serious injury or death, the A/C system in your vehicle should only be serviced by trained and certified Kia technicians.

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 you use the correct type and amount of oil and refrigerant. Reclaim all refrigerants with the proper equipment. Venting refrigerants directly to the atmosphere is harmful to individuals and the environment. Failure to heed these warnings can lead to serious injuries.

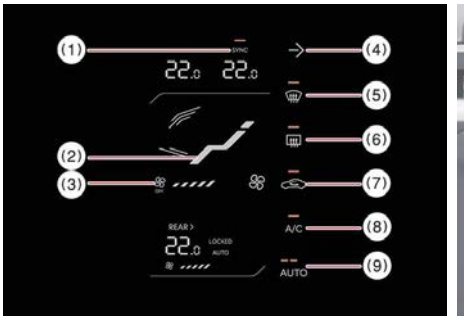
NOTE

It is important that you use the correct type and amount of oil and refrigerant. Otherwise, damage to the vehicle may occur. To prevent damage, the A/C system in your vehicle should only be serviced by trained and certified technicians.

Automatic climate control system

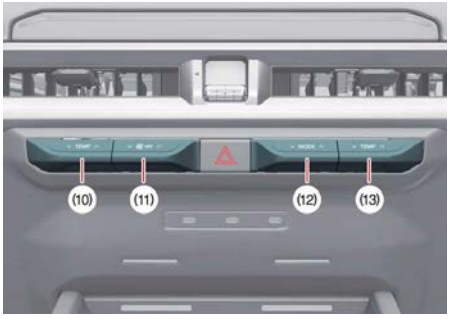
The automatic climate control system cools or heats the inside of the vehicle for the comfort of you and your passengers.

Climate control display



KIAPB020

Instrument panel



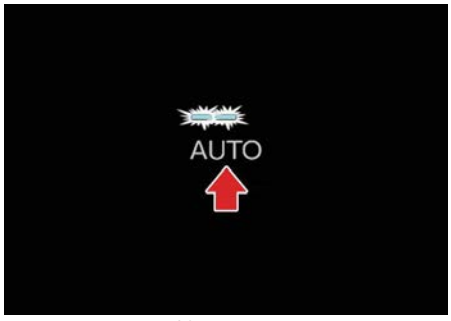
OLQ2A085069

(1) SYNC icon
  • Touch the SYNC icon to adjust the driver and passenger side temperature to the same value.
(2) Mode selection icon
(3) Fan speed control/OFF icon
(4) Infotainment system screen ON/OFF icon
(5) Front-windshield defroster icon
(6) Rear-window defroster icon
(7) Air intake control button
(8) Air conditioning A/C icon
(9) AUTO (automatic control) icon
(10) Driver's side temperature control lever
(11) Fan speed control/OFF lever
(12) Mode selection lever
(13) Passenger's side temperature control lever

NOTE

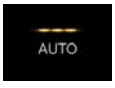
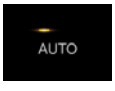
- Operating the blower fan when the vehicle is in ACC position may cause the 12V battery to discharge. Only operate the blower fan when the vehicle is running.
- The rear seat wind direction and wind volume can be adjusted independently from the front seat. However, the rear seat temperature setting is linked to the front seat controls and may vary depending on usage conditions and the surrounding environment. For faster cabin heating, it is recommended to activate the front and rear air conditioning systems simultaneously.

Automatic heating and air conditioning (A/C) operation



OCL4M035324N

1. Tap the AUTO icon.
   The modes, fan speeds, air intake, and air-conditioning are controlled automatically by setting the temperature.

Level	Indicator	LCD Display	Air flow
High			2-8
Medium			1-6
Low			1-4

2. Press the temperature control lever to the desired temperature.

TIP

- To turn the automatic operation off, press any of the following buttons:
  - Mode selection lever/icon
  - Air conditioning icon
  - Front windshield defroster icon
    Press the icon again to deselect the front windshield defroster function. The AUTO sign will appear on the information display once again.
  - Fan speed control lever

  The selected function is controlled manually, while other functions operate automatically.
- To improve the effectiveness of the climate control, press the AUTO icon and set the temperature to 72 °F (22 °C).

TIP

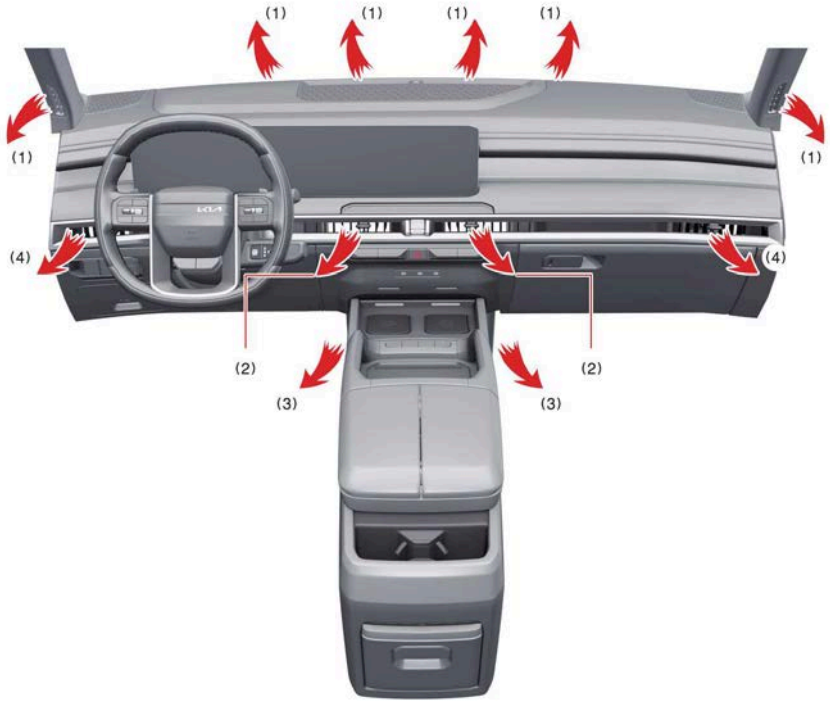


OLQ2A055017

For better control of the heating and cooling system, never place anything over the sensor (1) located on the instrument panel.

Manual heating and air conditioning (A/C) operation

The heating and cooling system can be controlled manually by pressing buttons other than the AUTO button.



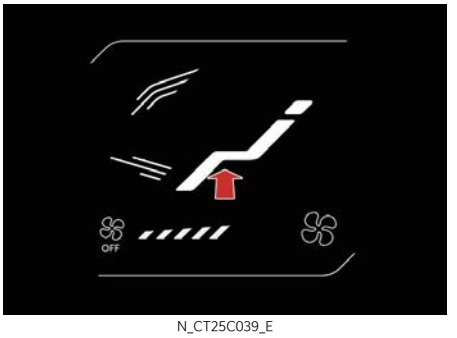
OLQ2A085083

To manually operate the heating and A/C, follow these steps:

1. Start the vehicle.
2. Set the desired mode.
   - Heating:
   - Cooling:
3. Set the temperature control as desired.
4. Set the air intake control to external air.
5. Set the desired fan speed. Turn the A/C system on if desired.

Press the AUTO button to switch to the automatically controlled climate system.

Mode selection



N_CT25C039_E



OLQ2A085070

The mode selection lever/icon controls the direction of airflow through the ventilation system.

Face-Level (2, 4)

Air flow is directed toward the upper body and face. You can control the direction of the airflow from each vent.

Bi-Level (2, 3, 4)

Air flow is directed toward the upper body and face and the floor.

Floor-Level (1, 3, 4)

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

Floor/Defrost-Level (1, 3, 4)

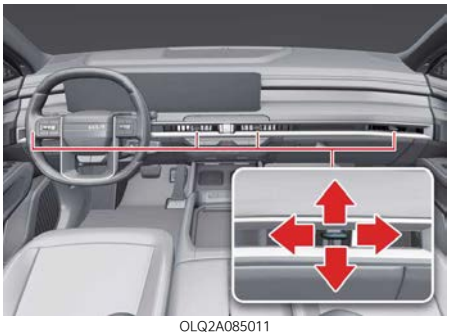
Most of the airflow is directed to the floor and windshield, and a small amount is directed to the side window defrosters and side air vents.

Defrost-Level (1, 4)

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

Instrument panel vents

Front



OLQ2A085011

Rear (2nd row/3rd row)

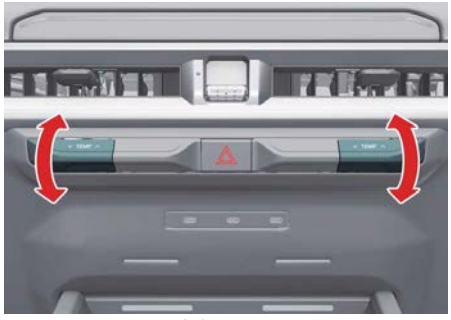


OLQ2AH085012

You can adjust the direction of a vent's airflow using the vent control lever as shown.

(1) : Air has a centered and direct flow.
(2) : Air spreads over a wider area.
For more details, refer to "Rear mode selection" on page 321.

Temperature control



OLQ2A085072

Press the temperature control lever up to increase the temperature or down to decrease the temperature.
When set to the lowest temperature setting, the A/C will operate continuously.

TIP

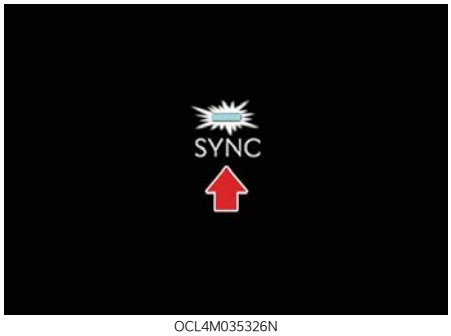
When starting the vehicle in cold weather using manual temperature control, operate the system in the following method to improve heating.

Turn off or lower the blower, right after starting the engine.

Allow the engine to warm up during this time since the air flow from the heater is still cold.

After a few minutes of engine warm up, turn on or set the fan to a higher level and adjust the temperature setting to hot.

Syncing driver and passenger temperature



OCL4M035326N

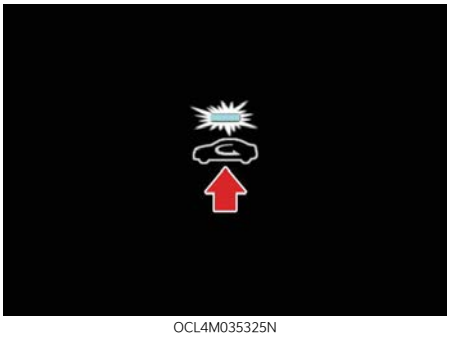
- To sync the driver and passenger temperatures, press the SYNC icon.

- The passenger temperature will be set to the same temperature as the driver side. When you adjust the driver side temperature control lever, both the driver and passenger temperatures will be adjusted.
- If you turn the passenger side temperature control lever, the SYNC button will turn off, and you will be able to operate the passenger temperature independently.

Adjusting the driver and passenger side temperature individually

To adjust the driver and passenger side temperatures individually, press the SYNC icon again. The button indicator will turn off.

Controlling air intake



OCL4M035325N

To change the air intake, press the desired control icon.

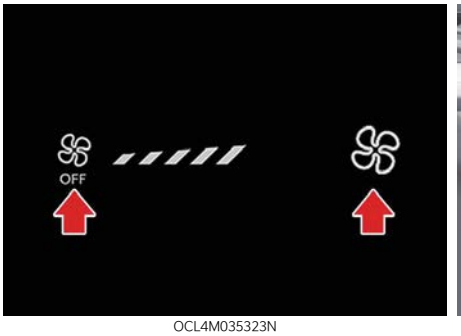
Recirculated air intake

Air from the vehicle cabin is drawn through the heating system and cooled or heated accordingly.

External air intake

Air enters the vehicle from outside and is heated or cooled accordingly.

Controlling fan speed



OCL4M035323N



OLQ2A085073

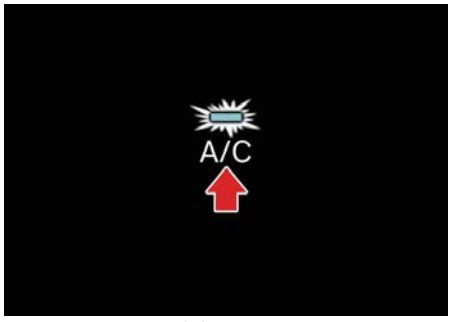
- Use the fan speed control icon/lever to set the desired fan speed.

- To change the fan speed, press the right icon to increase the speed or the left icon to decrease the speed.

  Also, press the fan speed control lever up to increase the speed or down to decrease the speed.
- To turn the fan speed control off, press and hold the left icon.

  Also, press and hold down the fan speed control lever.

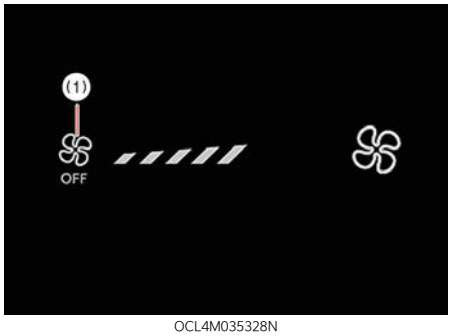
Air conditioning (A/C)



OLQ2A085084

- To turn the A/C system on, press the A/C icon. The indicator light will illuminate.
- To turn the A/C system off, press the icon again.

Turning off the front air climate control



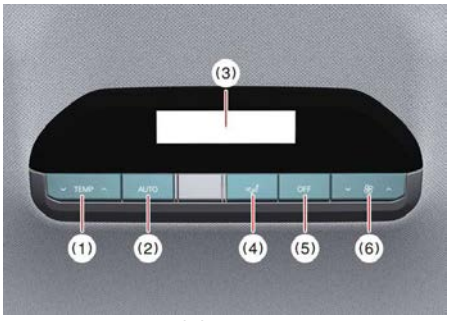
OCL4M035328N



OLQ2A085074

- To turn the climate control system off, touch and hold the icon (1) or press and hold down the fan speed control lever (2).
- You can operate the mode and air intake control buttons as long as the vehicle is in ON position.

Rear climate control



OLQ2A085013

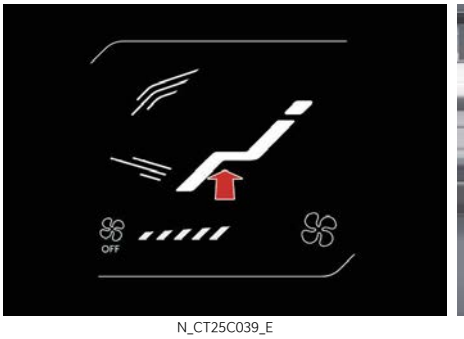
(1) Rear temperature control button
(2) Rear AUTO (automatic control) button
(3) Rear climate control display
(4) Rear mode selection button
(5) Rear climate control OFF button
(6) Rear fan speed control button

TIP

If the rear temperature, rear fan speed, or rear mode is adjusted on the rear climate control panel, the selected function will operate independently, regardless of the front climate control system operation.

Rear mode selection

From the front seat



N_CT25C039_E



OLQ2A085070

1. Set the rear climate control selection (**REAR**) button in the front climate control panel to the ON position.
2. Press the mode selection lever/icon on the front climate control panel to set the desired mode.

- : Rear air blows from the upper vents.
- : Rear air blows from the upper vents on the rear ceiling and the lower vents.
- : Rear air blows from the right side of the lower vents.

From the rear seat



OLQ2A085017

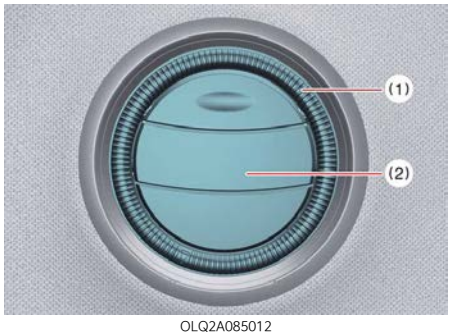


OLQ2A085018

After unlocking the rear climate control, push the rear mode selection button on the rear control panel to select the mode as follows:

- : Rear air blows from the upper vents on the rear ceiling.
- : Rear air blows from the upper vents on the rear ceiling and the lower vents on the right rear trim together.
- : Rear air blows from the lower vents on the right rear trim.

Opening/closing the vent and adjusting the direction



OLQ2A085012

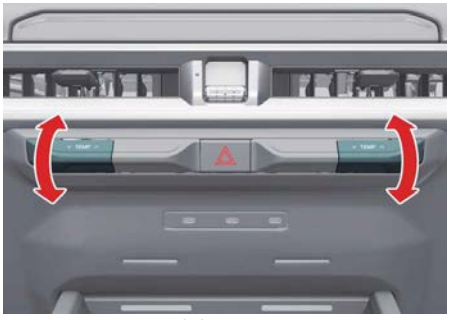
(1) Outer part of the vent
(2) Central part of the vent

You can set the direction of air by adjusting the knob of air vents located above the 2nd row and 3rd row seats. Adjust the outer and central parts of the air vent to the desired positions.

Outer part of the vent (1)	Central part of the vent (2)	Description
Opened ( )	Closed	The air spreads widely around the passenger. However, the air volume may decrease.
Opened ( )	Opened	The air is spread widely towards and around the passenger.
Closed ( )	Opened	The air blows only towards the passenger.

Rear temperature control

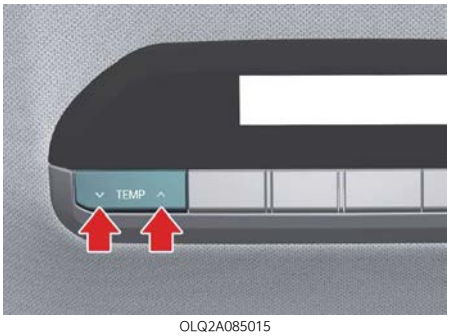
From the front seat



OLQ2A085072

- Set the rear climate control selection (**REAR**) button in the front climate control panel to the ON position.
- Press the temperature control lever on the front climate control panel to set the desired temperature.

From the rear seat

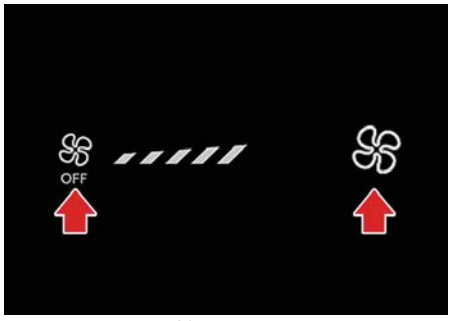


OLQ2A085015

To adjust the rear air temperature, press the upper rear temperature control button for warmer air, or press the lower rear temperature control button for cooler air.

Rear fan speed control

From the front seat



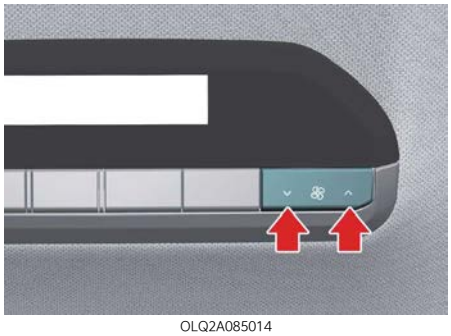
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OLQ2A085073

- Set the rear climate control selection (**REAR**) button in the front climate control panel to the ON position.
- Press the fan speed control lever/icon on the front climate control panel to set the desired fan speed.

From the rear seat



OLQ2A085014



OLQ2A085016

- Press the rear fan speed control button on the rear control panel for desired amount of airflow.
- To turn off the rear air conditioning system press the off button in the rear climate control panel.

Air conditioning (A/C) automatic drying

The A/C automatic drying feature dries the moisture in the A/C and reduces A/C odor. The blower motor automatically operates after the vehicle has been turned off for 30 minutes.

Turning A/C automatic drying on or off

You can turn the A/C automatic drying feature on and off by selecting **Setings > Climate > Cli-**

mate Features > A/C Automatic Drying on the infotainment system screen.

When the A/C automatic drying feature is activated, the air conditioner sets the fan speed to the third level, selects the outside (fresh) air position.

TIP

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

Operating conditions

The A/C automatic drying feature operates under the following conditions:

- The vehicle is turned off after operating the air conditioner for a certain period
- The 12V battery level is sufficient
- The outside temperature is above a certain level

Non-operating conditions

The A/C automatic drying feature stops operating under the following conditions:

- The A/C automatic drying feature has operated for 10 minutes
- The ENGINE START/STOP button is pressed, or the vehicle is in ON position
- The climate control system is operated remotely

TIP

- The A/C automatic drying feature reduces A/C odors but may not remove all odors.
- To prevent 12V battery discharge, the A/C automatic drying feature does not operate if the remaining 12V battery level is insufficient.

Scheduled ventilation control

Scheduled ventilation control expels hot air from the vehicle to lower the cabin temperature before you get into the vehicle.

Depending on the outside temperature, the blower fan will operate for 5-15 minutes while the vehicle is parked.

Select **Settings > Vehicle > Climate > Automatic Ventilation > Scheduled Ventilation** on the infotainment system screen to turn scheduled ventilation control on or off.

The starting time can be set up to 24 hours in advance. Scheduled ventilation control only operates after you set the feature.

Recirculate air (if equipped)

This function automatically switches the air conditioning system to internal air circulation mode based on the navigation map information and the speed of the vehicle to prevent polluted air from entering the cabin when passing through a tunnel or an area with a smell.

Also. it automatically activates to reduce any objection able scent of the washer fluid from entering the cabin when the windshield washer is used.

Select **Settings > Vehicle > Climate > Recirculate Air** on the infotainment system screen.

- **Activate upon Washer Fluid Use**: Washer fluid odor is automatically prevented from entering the cabin.
- **Activate upon Entering Tunnels**: Automatic closing of windows and activation of internal air circulation upon entering a tunnel.

About 7 seconds before the vehicle enters the tunnel, the air conditioning system automatically switches to indoor circulation mode.

Operating condition(s)

- When driving on a highway (or motorway)
- When the air conditioning system is in fresh air intake mode

CAUTION

Be careful not to get any part of your body caught when the windows are closing.

TIP

However, when the temperature outside is low, moisture may accumulate on the windows. In this case, touch the front-windshield defroster icon to remove it.

Windshield defrosting and defogging

Frost or moisture accumulated on the windshield can obscure visibility and should be removed.

⚠ WARNING

Windshield heating

Do not use the or setting when running the air conditioner (A/C) in extremely humid weather. The temperature differential between outside air and the windshield can fog up the windshield's outer surface and obscure visibility, potentially resulting in an accident. Set the mode to and the fan speed control to its lowest speed.

- For maximum defrosting, set the temperature control to its highest heat and the fan speed control to its highest speed.
- Set the climate control mode to floor-defrost if you desire warm air in the footwell while defrosting or defogging.
- Before driving, clear all snow and ice from the windshield, rear window, sideview mirrors, and all side windows.
- To improve heater and defroster efficiency and reduce the likelihood of the inside of the windshield fogging up, clear all snow and ice from the hood and air inlet in the car's grille.

Defogging the inside of the windshield

For automatic climate control system

To defog the inside of the windshield using the automatic climate control system, follow these steps:

1. Set the desired fan speed.
2. Select the desired temperature.
3. Press the defroster icon .
4. External airflow is selected automatically, and the air conditioner (A/C) operates according to the detected ambient temperature.

If external airflow and A/C are not selected automatically, manually press the corresponding control icons. If you select the mode, a slower fan speed is adjusted to a higher fan speed.

Defrosting the outside of the windshield

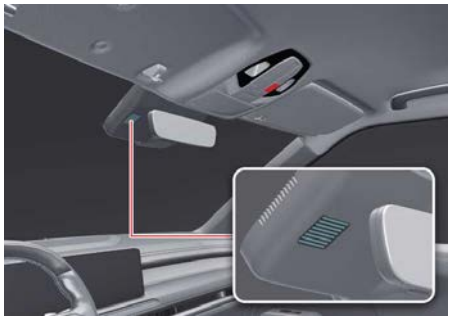
For automatic climate control system

To defrost the outside of the windshield using the automatic climate control system, follow these steps:

1. Set the fan to its highest speed.
2. Set the temperature to maximum heat.
3. Press the defroster icon .
4. External airflow is selected automatically, and the air conditioner (A/C) operates according to the detected ambient temperature.

AUTO defogging system

Automatic defogging senses moisture on the inside of the windshield to reduce the likelihood of the windshield fogging up.



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The AUTO defogging system operates when the heating or air conditioning (A/C) is on.
The AUTO defogging indicator will appear when the system is operating.
If high humidity is detected inside the vehicle, AUTO defogging will engage.
The following steps are performed automatically:

1. The A/C icon indicator will turn on.
2. The air intake control changes to external airflow when the outside temperature is low.
3. The climate mode changes to defrost so that airflow is directed to the windshield.
4. The fan speed increases.

NOTE

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

TIP

- If you try to turn the A/C OFF when AUTO defogging is on, the indicator blinks 3 times and the A/C will not turn OFF.
- To maintain the AUTO defogging system's effectiveness and efficiency, do not select re-circulated air intake while the system is operating.
- When AUTO defogging is operating, the fan speed adjustment lever/icon, temperature adjustment lever, and air intake control icon are all disabled.

Defroster

The vehicle is equipped with a defroster for removing frost or fog from the rear window.

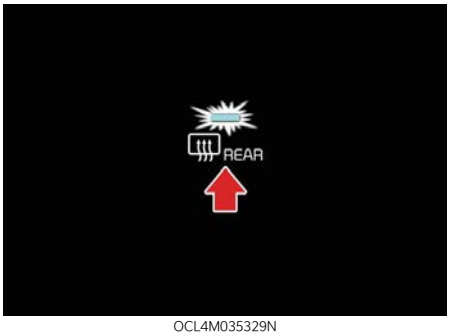
To defrost or defog the front windshield, refer to "Windshield defrosting and defogging" on page 327.

NOTE

Conductors

To prevent damage to the conductors bonded to the inside surface of the rear window, never clean the window using sharp instruments or window cleaners containing abrasives.

Rear window defroster



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The defroster heats the window to remove frost, fog, and thin ice from the rear window while the vehicle is in ON position.

If there is a heavy accumulation of snow on the rear window, brush it off before operating the rear defroster.

To turn the rear window defroster on:

- Press the rear window defroster icon located in the heater control panel.

  The indicator on the rear window defroster icon appears when the defroster is on.

  The rear window defroster automatically turns off after approximately 20 minutes, or when the vehicle is in OFF position.

To turn off the defroster:

- Press the rear window defroster icon again.

Outside mirror defroster

If your vehicle is equipped with outside mirror defrosters, they will operate when you turn on the rear window defroster.

Defogging logic (if equipped)

To reduce the likelihood of fogging up the inside of the windshield, air intake and A/C are automatically controlled according to certain conditions and reflected in modes such as or .

Canceling or restoring automatic defogging logic for automatic climate control system

Select **Settings > Vehicle > Climate > Auto Defog** from the infotainment system screen.

The defog logic status will reset if the 12V battery has been discharged or disconnected.

TIP

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

Storage compartments

You can use the compartments to store small items belonging to the driver or passengers:

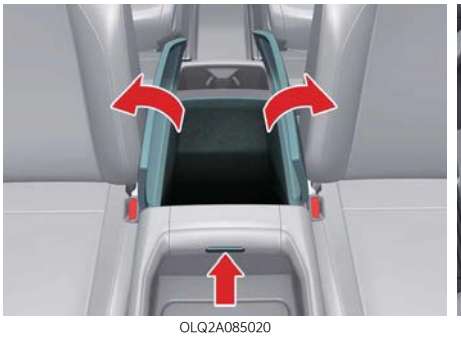
- To avoid possible theft, do not leave valuables in the storage compartments.
- Always keep the storage compartment covers closed while driving. Do not attempt to place so many items in a storage compartment that it cannot close securely.

WARNING

Flammable materials

Do not store gas lighters, portable batteries, canned beverages, spray cans, propane cylinders, cosmetic tubes or other flammable or explosive materials in the vehicle. These items may catch fire or explode if the vehicle is exposed to hot temperatures for extended periods of time.

Center console storage



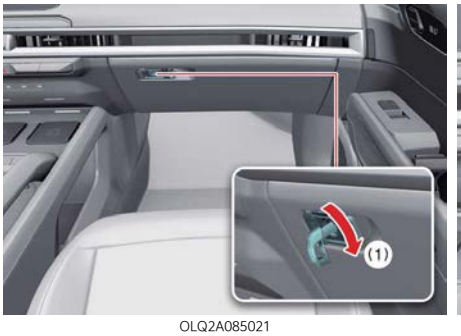
OLQ2A085020



OLQ2A085093

Press the button to open the center console storage cover to the sides.
There is an open storage on the lower part of the center console storage.

Glove box



OLQ2A085021



OLQ2A085022

Slide the glove box handle, and you can lock or unlock the glove box with the mechanical key (1).
To open the glove box, pull the handle and the glove box will automatically open.
Close the glove box after use.

WARNING

Glove box
To reduce the risk of injury in an accident or sudden stop, always keep the glove box door closed while driving.

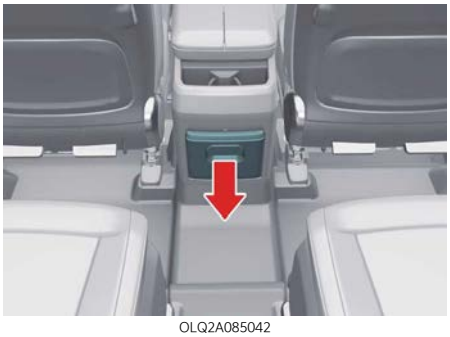
CAUTION

Do not keep food in the glove box for an extended period of time.

TIP

If the temperature control switch is in the warm or hot position, warm or hot air will flow into the glove box.

Console box storage compartment (if equipped)



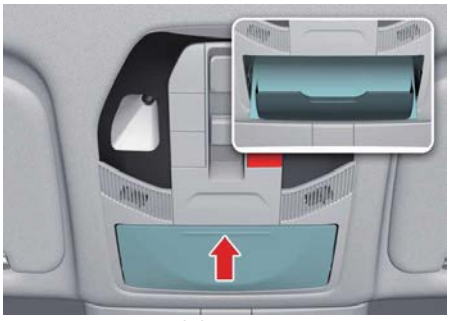
OLQ2A085042



OLQ2A085043

When you pull the lever located at the bottom of the center console, the locker opens and can be used as a table to store small items or put things on.

Sunglass holder



OLQ2A085057

To open the sunglass holder, press the cover and it will slowly open.

- Place your sunglasses with the lenses facing outward.
- To close the sunglass holder, push it upward until it latches.

WARNING

- Do not store objects other than sunglasses in the holder. Loose objects may be thrown from the holder during sudden stops or an accident, potentially causing injury.
- Do not open the sunglass holder while driving. An open sunglass holder may block the driver's rear view mirror.
- Do not force glasses into the holder. This may cause breakage or deformation of the glasses, and may result in personal injury if the holder is forced open while jammed.

Luggage net holder (if equipped)

To keep items from shifting in the cargo area, you can use the 4 holders located in the cargo area to attach the luggage net (if equipped), or you can fold the luggage net in half and attach it vertically by using the additional 4 holders located on each side.



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OLQ2A085058

If necessary, contact an authorized Kia dealer.

NOTE

DO NOT over stretch the luggage net and ALWAYS keep your face and body out of the luggage net's recoil path. Failure to comply with these instructions may result in severe facial injuries. DO NOT use the luggage net when the strap has visible signs of wear or damage.

CAUTION

To prevent damage to cargo or the vehicle, be careful when carrying fragile or bulky objects in the luggage compartment.

Foldable luggage table (if equipped)

Foldable luggage table provides additional place to put drinks or measure items.



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OLQ2A085052

(1) Cup guide
(2) Measurement guide

Use the cup guide to put drinks on the table, and the measurement guide (cm, inches) to measure various items.

To use the luggage table:

1. Grasp the handle on the top of the table and lift it.
2. Fold the rear half of luggage board forward.
3. Make sure the luggage table is fixed in place.
   The fixing points are located on the each corner of the luggage area.



OLQ2A085053

4. Put the luggage table down.

WARNING

- Do not place uncovered cups with hot liquid on the table. If the hot liquid spills, you could be burned.
- Do not put heavy, sharp, or breakable objects on the table. In an accident or when the vehicle moves, it may cause vehicle damage or bodily injury.

NOTE

- To prevent spillage, keep your drinks sealed. If liquid spills, it may get into the vehicle's electrical or electronic system and damage parts.
- When cleaning spilled liquids, do not use heat to dry the luggage table. This may damage the luggage table.

Removable luggage partition (if equipped)

You can use the removable luggage partition to freely divide the lower storage area according to the usage.



OLQ2A085061

To remove the partition, pull up the partition.
The partition can be stored in the lower storage area.

Luggage tray

The tools are located beneath the luggage tray for easy access.



OLQ2A085051

1. Grasp the handle on the top of the cover and lift it.
2. Fold the rear part of luggage board frontward.
3. Lift up the luggage tray.

Interior features

There are features inside the vehicle for the convenience of the occupants.

Cup holder

Front (Type A)



OLQ2A085023

Front (Type B)



OLQ2A085024

2nd row



OLQ2A085025

2nd row (8 seats)



OLQ2A085077

3rd row



OLQ2A085026

You may place cups or small beverage cans in the cup holders.

WARNING

Hot Liquids

Do not place uncovered cups with hot liquid in the cup holders while the vehicle is in motion. If the hot liquid spills, you could be burned. A driver who is burned could lose control of the vehicle, potentially causing a crash or serious injury.

WARNING

Keep cans or bottles out of direct sunlight, and do not put them in a hot vehicle. They could explode.

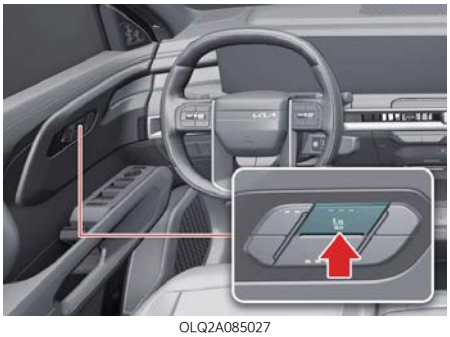
NOTE

- To prevent spillage, keep your drinks sealed while driving. If liquid spills, it may get into the vehicle's electrical or electronic system and damage parts.
- When cleaning spilled liquids, do not use heat to dry the cup holders. This may damage the cup holders.

Seat warmer (if equipped)

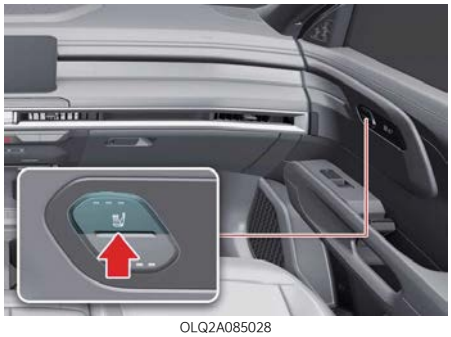
The seat warmer keeps the seats warm in cold weather.

Front seat (Driver's side)



OLQ2A085027

Front seat (Passenger's side)



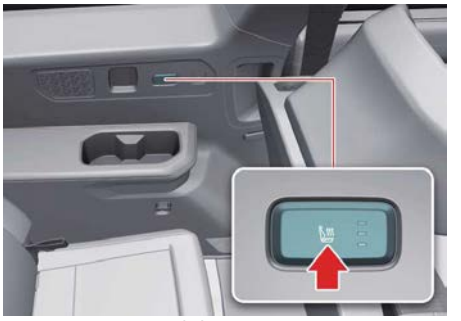
OLQ2A085028

2nd row



OLQ2A085029

3rd row



OLQ2A085062

With the vehicle in ON position:

• Push either of the buttons to warm the driver's seat or the front passenger's seat.

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

The seat warmer defaults off whenever the vehicle is in ON position.

Temperature control (manual)

• Each time you press the buttons, the temperature setting of the seat will change as follows:
  ◦ Front seat:

  Off > High > Medium > Low > Off
  ◦ Rear seat:

  Off > High > Medium > Low > Off

Temperature control (automatic)

The seat warmer automatically controls the seat temperature to prevent low-temperature burns after being manually turned ON.

Temperature	Duration
Off	-
High	30 minutes
Medium	60 minutes
Low	-

Press the button to increase the seat temperature. It will revert to the automatic mode again after a short period of time.

Turn off the seat warmer by pressing the controls for more than 2 seconds.

WARNING

Seat Warmer Burns

Passengers should use extreme caution when using seat warmers due to the possibility of excess heating causing burns. The seat warmer may cause burns even at low temperatures, especially if used for long periods of time. The driver must exercise extreme care for the following types of passengers:

1. Infants, children, elderly, disabled persons, or hospital outpatients
2. Persons with sensitive skin or those that burn easily
3. Fatigued individuals
4. Intoxicated individuals
5. Individuals taking medication that can cause drowsiness or sleepiness (sleeping pills, cold tablets, and so on).

NOTE

- When cleaning the seats, do not use an organic solvent such as paint thinner, benzene, alcohol, or gasoline. It may damage the surface of the warmer or seats.
- To prevent overheating the seat warmer, do not place anything on the seats that insulate against heat, such as blankets, cushions, or seat covers while the seat warmer is in operation.
- Do not place heavy or sharp objects on seats equipped with seat warmers. Damage to the seat warming components could occur.
- Do not change the seat cover. It may damage the seat warmer or air ventilation system.

TIP

When the seat warmer controls are on, the heating system in the seat turns off or on automatically depending on the seat temperature.

Last Mode (if equipped)

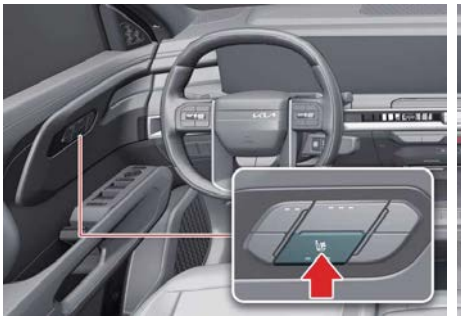
This function retains the temperature level of the driver's seat warmer and ventilation seat even after the vehicle is turned off and restarted. For example, if the driver's seat warmer was operating at Level 3 (High) before the vehicle was turned off, it will automatically resume at Level 3 (High) when the vehicle is restarted. Only the temperature levels of the driver's seat warmer and ventilation seat are retained.

Setting Last Mode

- You can enable or disable this function by selecting **Seats > Heated/Ventilated Convenience > Retain Driver Heated/Ventilated Settings** in the infotainment system.
- Settings adjusted automatically will either not be saved or will revert to the state before the change.
  - If the seat warmer temperature level is lowered due to automatic adjustment and the vehicle is turned off, the system will save the level set before the automatic lowering.

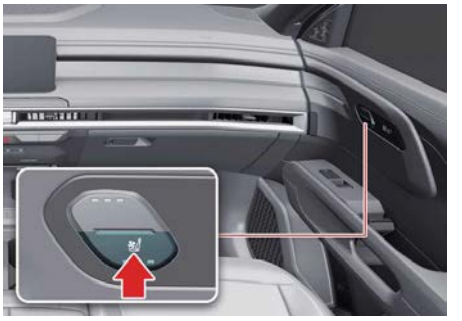
Air ventilation seat (if equipped)

Front seat (Driver's side)



OLQ2A085030

Front seat (Passenger's side)



OLQ2A085031

2nd row



OLQ2A085032

The temperature setting of the seat changes according to the buttons' indicator.
To ventilate your seat cushion, push the buttons.
Each time you push the buttons, the airflow changes as follows:

OFF > High > Medium > Low > OFF

The seat warmer (with air ventilation) defaults to off whenever the vehicle is in ON position.

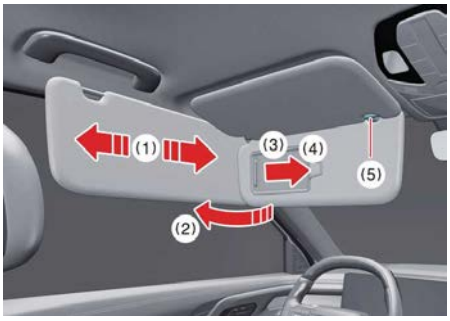
NOTE

Seat damage

- When cleaning the seats, do not use an organic solvent such as paint thinner, benzene, alcohol, or gasoline. It may damage the air ventilation seat.
- Do not place heavy or sharp objects on the seat. Those things may damage the air ventilation seat.
- Be careful not to spill liquid, such as water or beverages, on the seat. If you spill some liquid, wipe the seat with a dry towel completely before using the air ventilation seat.

Sun visor

Use the sun visor to block direct light through the front or side windows.



OLQ2A085034

To use the sun visor:

- Pull it downward.
- To use the sun visor for the side window, pull it downward, unsnap it from the bracket (5), and swing it to the side (2).
- You can slide the sun visor if necessary (1).
- To use the vanity mirror, pull down the visor and slide the mirror cover (3).
- The lamp turns on automatically when the sun visor vanity mirror cover is opened.
- The ticket holder (4) can hold a tollgate ticket.

WARNING

Do not block your view when using the sun visor. Impairing your visibility could result in an accident.

NOTE

Do not put several tickets in the ticket holder at the same time. This could damage the ticket holder.

USB charger

The USB charger recharges the batteries of small electronic devices using a USB cable.

Instrument panel



OLQ2A085035

Front seat



OLQ2A085036

Rear cargo area



OLQ2A085037

You can recharge the electronic devices when the vehicle is in ON position.
You can monitor the battery charging state on the electronic device.
Disconnect the USB cable from the USB port after use.
Rated output: 9.0 V/Max 3.0 A

- A smartphone or a tablet PC may get warmer during the recharging process. This does not indicate any malfunction with the charging system.
- A smartphone or a tablet PC that has a different recharging method may not properly recharge. In this case, use an exclusive charger for your device.
- The charging terminal is only for recharging a device. Do not use the charging terminal either to turn on an audio or to play media in the infotainment system.

NOTE

- Use the USB charger when the vehicle is running. Using the USB charger for prolonged periods of time with the vehicle off could cause the 12V battery to discharge.
- To prevent damage to the USB charger:
  - Do not insert foreign objects or spill liquid into the outlet. This may damage the USB charging terminal.
  - Do not use devices with a working current exceeding 3,000 mA (3.0 A).

TIP

Charging may not be possible when using a USB Type-C to USB Type-A converter.

Power outlet

The power outlet provides power for mobile telephones or other devices designed to operate with the vehicle electrical system, or for other devices that are compatible with the power outlet and vehicle electrical system.

Center console (Type A)



OLQ2A085038

Center console (Type B)



OLQ2A085085

3rd row



OLQ2AH085011

The devices should draw less than 15A when the vehicle is in ON position.

WARNING

Electric shock

Do not put a finger or a foreign object (such as a pen) into a power outlet, and do not touch it with a wet hand. You may get an electric shock.

NOTE

- Use the power outlet only when the vehicle is in ON position, and remove the accessory plug after use. Using the accessory plug for prolonged periods of time with the vehicle OFF could cause the battery to discharge.
- Only use 12V electric accessories that are less than 15A in electric capacity.
- Adjust the air conditioner or heater to the lowest 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 the plug does not make good contact, it may overheat, and the fuse may open.
- Plug in battery -equipped electronic devices with reverse current protection. The current from the battery may flow into the vehicle's electrical system and cause system malfunction.

WARNING

Do not connect another vehicle's Tire Mobility Kit (TMK) to the power outlet. The unmatched power requirement between the vehicle power outlet and the TMK can cause fire or circuit damage within both the vehicle and the TMK.

AC inverter (if equipped)

The AC inverter supplies 115V/150W electric power to operate electric accessories or equipment.



OLQ2A085040

- Rated Voltage: AC 115V
- Maximum electric power: 150W
- To avoid an electrical system failure, electric shock, and so on, be sure to read the vehicle's owner manual before use.
- Be sure to close the cover when not in use.

WARNING

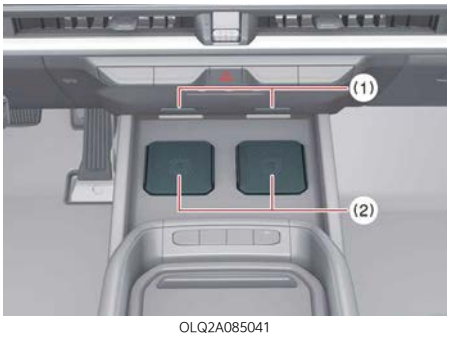
To reduce the risk of serious or fatal injuries:
- Do not use a heated electric device such as a coffee pot, toaster, heater, iron, and so on.
- To avoid a shock, do not touch or insert foreign objects into the outlet.

NOTE

- To prevent the battery from being discharged, do not use the AC inverter when the engine is not running.
- After using an electric accessory or equipment, pull out the plug. Leaving the accessory or equipment plugged in for a long time may cause the battery to discharge.
- Do not use an electric accessory or equipment that has a power consumption greater than 150W (115V).
- Some electric accessories or equipment can cause electronic interference. It may cause excessive noise and malfunction of other electric systems or devices.
- Do not use broken electric accessories or equipment. They may damage the vehicle's inverter and electrical systems.
- Do not use 2 or more electric accessories or pieces of equipment at the same time. This may cause damage to the electrical systems.
- When the input voltage is lower, the outlet LED will blink, and the AC inverter will turn off automatically. When the input voltage returns to normal, the AC inverter will turn on.

Wireless smartphone charging system

A wireless smartphone charging system is located in front of the center console.



OLQ2A085041

(1) Indicator
(2) Charging pad

Firmly close all doors, and start the vehicle. To start wireless charging, place the smartphone equipped with wireless charging function on the wireless charging pad.
With two wireless smartphone charging pads, you can charge two phones at the same time.
For best wireless charging results, place the smartphone on the center of the charging pad.
The wireless charging system is designed for only two smartphones equipped with Qi ®. Please refer to the smartphone accessory cover or the smartphone manufacturer's website to check whether your smartphone supports the Qi ® charging.

NOTE

If any metallic object, such as a coin, is located between the wireless charging system and the smartphone, it may disrupt charging. The metallic object may heat up.

Wireless smartphone charging

1. Remove any object on the smartphone charging pad, including the smart key. If there is any foreign object on the pad other than a smartphone, the wireless charging function may not operate properly.
2. Place the smartphone on the center of the wireless charging pad.
3. The indicator light will change to amber when the wireless charging begins. After the charging is complete, the orange light will change to green.
4. You can choose to turn the wireless charging function to either on or off on the infotainment system. (Please refer to "Instrument cluster" on page 147 for details).

   If the wireless charging function does not work, gently move your smartphone around on the pad until the charging indicator light turns amber. Depending on the smartphone, the charging indicator light may not turn green, even after charging is complete.

   If wireless charging is not functioning properly, the orange light will blink and flash for 10 seconds and then turn off. Remove the smartphone from the pad and place it on the pad again, or double check the charging status.

   If you leave the smartphone on the charging pad when the vehicle is in OFF position and the front door is opened, the vehicle alerts you through warning messages and sound (applicable for vehicles with voice guidance function) on the instrument cluster.

   For some manufacturers' smartphones, the system may not warn you when the smartphone is left on the wireless charging pad. This is due to the characteristics of the smartphone and is not a wireless charging system malfunction.

WARNING

Distracted driving

Driving while distracted can result in a loss of vehicle control that may lead to an accident, severe bodily injury, or death. The driver's primary responsibility is the safe and legal operation of a vehicle. Any use of handheld devices, other equipment, or vehicle systems that take the driver's eyes, attention, and focus away from the safe operation of a vehicle are not permissible by law. These should never be used while operating the vehicle.

TIP

Liquid in wireless charging system

To prevent damage, be sure not to spill liquid over the wireless smartphone charging system.

NOTE

Metal in wireless charging system

If any metallic object, such as a coin, is located between the wireless charging system and the smartphone, charging may be disrupted. The metallic object may heat up and potentially damage the charging system. If there is any metallic object between the smartphone and the charging pad, immediately remove the smartphone. Remove the metallic object after it has cooled.

TIP

- When the interior temperature of the wireless charging system rises above a set temperature, the wireless charging will cease to function. After the interior temperature drops below the threshold, the wireless charging function will resume.
- Wireless charging may not function properly when there is a heavy accessory cover on the smartphone.
- To prevent radio wave disruption, wireless charging will stop when you use the wireless smart key search function.
- Wireless charging will stop when you move the smart key out of the vehicle in ON position.
- Wireless charging will stop when you open any of the doors (if equipped with smart keys).
- Wireless charging will stop when you turn the vehicle off.
- Wireless charging will stop when the smartphone is not in complete contact with the wireless charging pad.
- Items equipped with magnetic components, such as a credit card or transportation ticket, may be damaged during wireless charging.
- For best results, place the smartphone on the center of the charging pad. The smartphone may not charge when placed near the rim of the charging pad. When the smartphone is charging, it may heat up excessively.
- For smartphones without a built-in wireless charging system, you must use an appropriate accessory.
- Certain smartphones may display messages on weak current. This is due to the characteristics of that smartphone and is not a wireless charging system malfunction.
- The indicator light of some manufacturers' smartphones may still be orange after the smartphone is fully charged. This is due to the characteristics of the smartphone and not is a wireless charging system malfunction.
- When you place any smartphone without a wireless charging function or a metallic object on the charging pad, you may hear a noise. This small noise comes from the vehicle discerning the compatibility of the object placed on the charging pad. It does not affect your vehicle or the smartphone in any way.
- The wireless mobile phone charging system may not support certain mobile phones that are not verified for the QI ® specification ( ).
- When placing your smartphone on the charging pad, position the phone in the middle of the pad for maximum efficiency.

  If your smartphone is off to the side, the charging speed may slow down, and your smartphone may heat up.
- When charging some smartphones with a self-protection feature, the wireless charging may decrease in speed or stop.

- You can only wirelessly charge a smartphone that supports wireless charging.
- The wireless charging pad has an internal cooling system, which can create noise, to keep your phone cool while it charges.
- It's normal for your phone to warm up while charging, but using apps like Android Auto or Apple CarPlay can cause it to heat up faster, potentially delaying or stopping the charging process due to overheating. This is not an issue with the wireless charging system, so please remove the smartphone from the charging pad to help it cool down.
- During wireless charging, an internal fan operates to prevent overheating. Fan noise may sound.

TIP

The wireless charging speed for certain smartphones with built-in protection may decrease or stop, depending on the wireless charging policy and product specifications set by each manufacturer, so you can check your smartphone's maximum wireless charging speed in the manufacturer's wireless charging manual.

This device complies with Part 15 of the FCC rules.

Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. this device must accept any interference received, including interference that may cause undesired operation.

TIP

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Coat hook

There is a coat hook next to the rear grab handle.

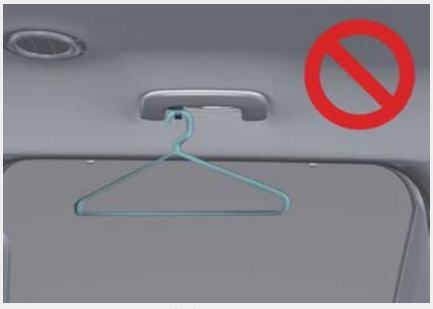


OLQ2A085044

* The actual feature may differ from the illustration.

WARNING

Do not hang objects aside from clothes, such as hangers or hard objects. Do not put heavy, sharp, or breakable objects in the clothing's pockets. In an accident or when the curtain air bag inflates, it may cause vehicle damage or serious bodily injury.



OLQ2A085045

NOTE

Hanging clothing

Do not hang heavy clothes, as they may damage the hook.

Shopping bag holder

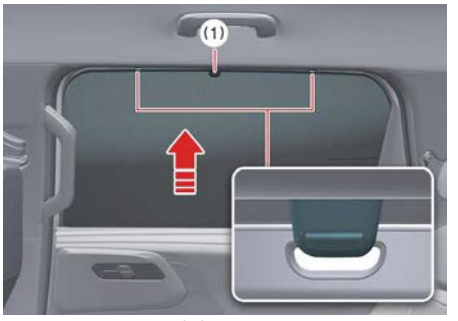


OLQ2A085064

NOTE

- Do not hang a bag weighing more than 7 lbs. (3 kg). It may cause damage to the shopping bag holder.
- Do not hang the frail objects when you drive rough road, the objects may be damaged.

Side curtain (if equipped)



OLQ2A085046

To use the side curtain:

1. Lift the curtain using the knob (1).
2. Hang the curtain on both sides of the hook.

NOTE

- Always hang both sides of the curtain on the hook. If only 1 side of the curtains is hooked, it could damage the side curtain.
- Do not let any foreign materials get between the door trim and the side curtain. The side curtain may not lift up.

Floor mat anchors



OLQ2A085047

When using a floor mat on the front floor carpet, make sure it attaches to the floor mat anchors in your vehicle. This keeps the floor mat from sliding forward.

WARNING

Aftermarket floor mat

- Do not install aftermarket floor mats that cannot be securely attached to the vehicle's floor mat anchors.

  Unsecured floor mats can interfere with pedal operation.
- To avoid interference with the pedals, use floor mats that can be properly secured on the floor and are not too thick. Make sure that you remove the plastic film on the carpets when installing the floor mats, as this may damage or break the floor mat fixed rings and result in the mats being unsecured.

  The driver's seat floor mats should especially be checked, as unsecured mats may cause unintended acceleration or braking, or interference with braking, which could lead to an accident resulting in serious injury or death. Be sure to remove all the plastic film on the carpets before installing the mats.

Observe the following guidelines when installing ANY floor mat in the vehicle:

- Ensure that the floor mats are securely attached to the vehicle's floor mat anchors before driving the vehicle.
- Do not use ANY floor mat that cannot be firmly attached to the vehicle's floor mat anchors.
- Do not stack floor mats on top of one another (for example, an all-weather rubber mat on top of a carpeted floor mat). Only a single floor mat should be installed in each position.

Cargo security screen (if equipped)

Use the cargo security screen to hide items stored in the cargo area.



OLQ2A085078

WARNING

- Never allow anyone to ride in the luggage compartment. It is only for luggage.
- Maintain the vehicle 's balance, and adjust the weight of luggage as far forward as possible.

NOTE

Do not put luggage on the cargo security screen, as this may damage the screen. Luggage may also move around inside the vehicle and injure occupants during an accident or when braking.

Using the cargo security screen



OLQ2A085079

1. Pull the cargo security screen towards the rear of the vehicle by the handle (1).
2. Insert the guide pin into the guide (2).
3. When the cargo security screen is not in use, pull the cargo security screen backward and up to release it from the guides.
4. The cargo security screen will automatically slide back in.

NOTE

To prevent the guide pin from falling out of the guide, pull out the cargo security screen using the handle in the center.

TIP

The cargo security screen may not automatically slide back in if the cargo security screen is not fully pulled out. Fully pull it out and then let go.

Retrieving the cargo security screen

1. Open the luggage tray cover.



OLQ2A085089

2. Remove the left and right side of the tray cover trim from the luggage area.

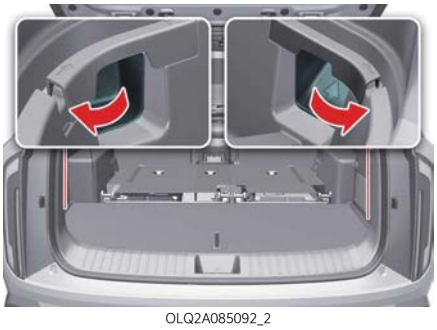


OLQ2A085090



OLQ2A085056

3. While pushing the guide pin, pull out the cargo security screen from the luggage tray.
4. Place the cargo security screen to the area between 2nd and 3rd row seats.
5. Install the left and right side trim from the luggage area.



OLQ2A085092_2

Stowing the cargo security screen

1. Open the luggage tray cover.



OLQ2A085089

2. Remove the left and right side of the tray cover trim from the luggage area.

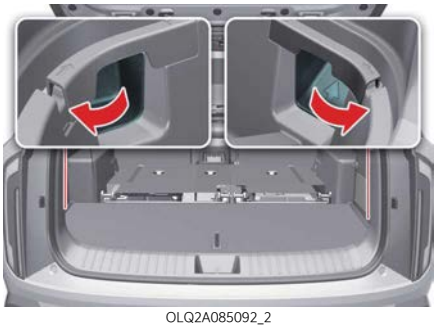


OLQ2A085090



OLQ2A085056

3. While pushing the guide pin, pull out the cargo security screen from the area between 2nd and 3rd row seats.
4. Place the cargo security screen to the luggage tray.
5. Install the left and right side trim from the luggage area.



OLQ2A085092_2

Exterior features

Roof rack (if equipped)

If your vehicle has a roof rack, you can load cargo and accessories (for example, a cargo carrier or roof tent) on top of your vehicle.

Type A



OLQ2A085054

Type B



OLQ2A085055

* The actual shape may differ from the illustration.
You can attach cargo and accessories directly to the roof rack or to Kia crossbars (available from an authorized Kia dealer).

TIP

- Place the crossbars (if equipped) in the proper load carrying positions before placing items onto the roof rack.
- When you are not using the roof rack to carry cargo, you may need to reposition the crossbars if you detect wind noise.

NOTE

- When carrying cargo on the roof rack, 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.
- If the vehicle is equipped with a sunroof, ensure that cargo loaded onto the roof rack does not interfere with sunroof operation.
- When carrying cargo on the roof rack, do not operate the sunroof. (if equipped)
- Never place a load directly on the sunroof or the roof panels. They are not designed to carry loads and may break. Never let anything interfere with the movement of the sunroof.

Load limits

The Kia roof rack can support up to 880 lb (400 kg) evenly distributed (side to side and front to back), but only when the vehicle is parked.
Never drive the vehicle with more than 220 lb (100 kg) of cargo and accessories on the roof

racks.
Never allow the combined weight of occupants and cargo to exceed the Gross Vehicle Weight Rating (GVWR) of your vehicle.

⚠ WARNING

- Never drive your vehicle when the combined weight of occupants and cargo exceeds GVWR. That can cause loss of control and an accident.
- Loads on the roof rack raise your vehicle's center of gravity and may change the way that your vehicle handles. Avoid sudden starts and braking, sharp turns, abrupt maneuvers, and high speeds that may result in loss of control or rollover.
- Always drive slowly and turn corners carefully when carrying items on the roof rack. Severe wind updrafts from passing vehicles or weather can put 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. Updrafts could cause the items to fall off the roof rack and damage your vehicle or others around you.
- Failure to heed these warnings may lead to serious injury and death.

NOTE

- Overloading the roof racks may damage them.
- Overloading the vehicle may damage it.

Securing items to the roof rack

Plan carefully before attempting to put cargo and accessories on the roof racks. Be sure that you have the equipment to secure the items. Get help from those close to you whenever appropriate.
Be sure that the cargo and accessories will not extend too far forward, backward, or sideways.
Do not allow anything to obscure the view out the windshield or the front view camera. Do not allow anything to obscure the high -mounted stop lamp.
Obey applicable laws regarding flags and signals on cargo extending beyond the rear of your vehicle.
Be careful to account for the effects that wind may have on the cargo and accessories while moving. Flexible cargo such as a mattress can bend under wind loads. Wind effects from driving, passing vehicles, or weather can cause sudden upward or downward pressure, resulting in damage to the items, damage to the cross members or roof rack, damage to attachments, loss of visibility, distraction, and loss of control.
Park your vehicle on solid, level ground, place it in P (Park), and set the parking brake before loading and securing items.
If your cargo is covered, be sure that the cover is secure and will not blow off or distract the driver.
Check the security of the attachments after driving for a short distance and from time to time during your journey.

Securing accessories

Make sure an accessory is compatible with your vehicle's roof racks before installing it.
Check the accessory manufacturer's manual and online information. Do not attempt to connect an accessory that the manufacturer deems incompatible.
Contact the manufacturer or your Kia dealer if you need additional information when installing

an accessory.
Follow the accessory manufacturer's instructions, warnings, and cautions in addition to those above.

Roof tents

When using a roof tent:

- Be sure that the weight of the occupants does not exceed the load capacity of the roof racks.
- Confirm that the roof tent is securely fastened to the cross bars and roof rails before using it.
- Never move the vehicle with occupants in a roof tent.
- Never leave the engine running with occupants in a roof tent. Never run an internal combustion engine (such as a generator), gas stove, gas lantern, or other device that burns fuel near an occupied roof tent or awning. Those devices emit carbon monoxide, which is colorless, odorless, and deadly.
- Follow the roof tent manufacturer's instructions, warnings, and cautions.

WARNING

Failure to follow the instructions, warnings, and cautions above, and those of the accessory manufacturer, could result in damage to your vehicle, to your cargo, and to other road users. It could also result in an accident and in serious injury and death.

Driving your vehicle

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Driving your vehicle

Before driving

Before you get into your vehicle, examine the vehicle and its surroundings. After you get into your vehicle, check a number of things before driving, as described in this section.

Be sure the exhaust system does not leak

- Check the exhaust system whenever the vehicle is raised for changing the oil or any other purpose.
- If you hear a change in the sound of the exhaust, or if you drive over something that strikes the underbody of the vehicle, have your vehicle checked by an authorized Kia dealer.

WARNING

Do not inhale exhaust fumes or leave your engine running in an enclosed area for a prolonged period of time. Exhaust fumes contain carbon monoxide, a colorless and odorless gas that can cause unconsciousness and death by asphyxiation.

WARNING

Do not drive with the liftgate open. Poisonous exhaust fumes can enter the passenger compartment. If you must drive with the liftgate open, proceed as follows:

1. Close all windows.
2. Open the side vents.
3. Set the air intake control to external air intake, the mode selection to or , and the fan speed to the highest setting.

Before entering the vehicle

- Ensure that all windows, outside mirrors, and outside lights are clean.
- Check the condition of the tires.
- Check under the vehicle for any sign of leaks.
- Be sure there are no obstacles behind you if you intend to back up.

Necessary inspections

Fluid levels, such as engine oil, engine coolant, brake fluid, and washer fluid, should be checked on a regular basis, at the recommended interval depending on the fluid. Further details are provided in "Maintenance" on page 691.

WARNING

Distracted driving

Focus on the road while driving. Your primary responsibility is in the safe and legal operation of the vehicle. Do not use any handheld devices, other equipment, or vehicle systems that could distract you while driving.

Before starting

- Close and lock all doors.
- Position the seat so that you can easily reach all controls.
- Buckle your seat belt and make sure any and all passengers do the same.
- Adjust the inside and outside rearview mirrors.
- Be sure that all lights work.
- Check all gauges.
- Check the operation of warning lights when the vehicle is in ON position.
- Release the parking brake and make sure the brake warning light is not on.

For safe operation, be sure you are familiar with your vehicle and its equipment.

WARNING

Check surroundings
Always check the surrounding areas near your vehicle for people, especially children, or other obstacles, before shifting to D (Drive) or R (Reverse).

WARNING

Driving under the influence
Do not drive while under the influence of alcohol, drugs, or any other impairing substance. Drinking and driving is dangerous. Even a small amount of alcohol will affect your reflexes, perceptions, and judgment. Drug-impaired driving is as dangerous as drunk driving.

WARNING

Proper footwear
Always wear appropriate shoes when operating your vehicle. Unsuitable shoes (such as high heels, ski boots, sandals, and so on) may interfere with your ability to engage the brake and accelerator pedals.

WARNING

California Proposition 65

Engine exhaust and a wide variety of automobile components and parts, including components found in the interior furnishings in a vehicle, contain or emit chemicals known to the State of California to cause cancer and birth defects and reproductive harm. In addition, certain fluid contained in vehicles and certain products of component wear contain or emit chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

WARNING

Loose objects

Securely store items in your vehicle. When you make a sudden stop or turn, loose objects may fall on the floorboard, interfere with the operation of the brake and accelerator pedals, and cause an accident.

NOTE

When you intend to park or stop the vehicle in ON position, be careful not to engage the accelerator pedal for a extended period of time. It may overheat the engine or exhaust system and cause a fire.

ENGINE START/STOP button

The ENGINE START/STOP button illuminates when the front door is opened for your convenience. The light turns off approximately 30 seconds after the door is closed. It also turns off immediately when the theft-alarm system is armed.



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Your vehicle is equipped with 4 different ignition positions.

OFF

- To turn off the engine, press the ENGINE START/STOP button and set it from the START/RUN position to the OFF position while the vehicle is in P (Park).
- To turn off the vehicle power, press the ENGINE START/STOP button and set it from the ON position to the OFF position while the vehicle is in P (Park).
- If you press the ENGINE START/STOP button without the vehicle in P (Park), its position will not change to OFF rather than ACC.

Anti-theft steering column lock (if equipped)

- To protect you from theft, the steering wheel locks when the ENGINE START/STOP button is in the OFF position.
- The steering wheel also locks when you open the door.
- If the steering wheel does not lock properly when you open the driver side door, the warning chime sounds. Try locking the steering wheel again. If that does not solve the problem, have your vehicle checked by an authorized Kia dealer.
- Additionally, the steering wheel does not lock and the warning chime sounds if you press the ENGINE START/STOP button in the OFF position after opening the driver side door. In this situation, close the door so that the steering wheel locks and the warning chime stops.

TIP

If the steering wheel does not unlock properly, the ENGINE START/STOP button does not work. Press the ENGINE START/STOP button while turning the steering wheel right and left to release the tension.

NOTE

- You can only turn the vehicle on or off by pressing the ENGINE START/STOP button in the START/RUN position when your vehicle is not in motion.
- If your vehicle is in motion during an emergency, you can turn the vehicle off by pressing the ENGINE START/STOP button in the ACC position for more than 2 seconds, or 3 times repeatedly within 3 seconds.

  If your vehicle is still moving, you can restart it by pressing the ENGINE START/STOP button when the vehicle speed is 3 mph (5 km/h) or above.

ACC (Accessory)

When your vehicle is in the ACC position, the steering wheel unlocks, and the electrical accessories are operational. Using electrical systems with the vehicle off will drain the battery.
To put your vehicle in ACC mode, press the ENGINE START/STOP button in the OFF position without engaging the brake pedal.
If the ENGINE START/STOP button is in the ACC position for more than 1 hour, your vehicle turns off automatically to prevent battery discharge.

ON

When your vehicle is on, the engine is running. To turn your vehicle on in ACC mode, press the ENGINE START/STOP button without engaging the brake pedal.
Warning lights appear before the engine starts so you can check them. Do not leave the ENGINE START/STOP button on for a long period of time before starting the engine, as this may discharge the 12V battery.

START/RUN

To start the vehicle, engage the brake pedal, and press the ENGINE START/STOP button with the vehicle in either P (Park) or N (Neutral). However, for your safety, always start the vehicle in P (Park).

TIP

If you press the ENGINE START/STOP button without engaging the brake pedal, the engine will not start and the ENGINE START/STOP button changes as follows:

- From **OFF > ACC**
- From **ON > OFF** or ACC

WARNING

- Never press the ENGINE START/STOP button while your vehicle is in motion(unless in an emergency). This results in the loss of directional control and reduced braking function, which could cause an accident.
- Before exiting, always make sure to shift to P (Park), fully apply the parking brake, press the ENGINE START/STOP button in OFF position, and take the smart key with you. The vehicle may move suddenly and unexpectedly if you do not take these precautions.
- Never reach for the ENGINE START/STOP button or any other controls through the steering wheel while the vehicle is in motion. The presence of your hand or arm in the area could result in loss of control of the vehicle, an accident, and serious bodily injury or death.
- Do not place any loose or movable objects around the driver's seat. These objects may move while driving, interfere with your driving, and cause an accident.

Starting the engine

1. Carry the smart key or leave it inside the vehicle where it remains under your control.
2. Firmly apply the parking brake.
3. Shift to P (Park). Engage the brake pedal fully.
4. Press the ENGINE START/STOP button without engaging the accelerator pedal.
5. Do not wait for the engine to warm up while your vehicle remains stationary. Start driving at moderate engine speeds. (Avoid rapid acceleration and deceleration.)

WARNING

- Do not start the vehicle with the accelerator pedal engaged. The vehicle can move and cause an accident.
- Wait until the engine rpm is normal. The vehicle may suddenly move if you release the brake pedal when the rpm is high.

NOTE

Starting and stopping the engine for turbocharger intercooler

- Do not race or accelerate the vehicle immediately after you start the engine.
  If the engine is cold, idle it for several seconds to ensure that sufficient lubrication is applied within the turbocharger unit.
- After high speed or extended driving, which puts strain on the engine load, idle the engine for about 1 minute before turning it off.
  This idle time allows the turbocharger to cool before you turn off the engine.
- Do not turn off the engine immediately after you have subjected it to a heavy load. Doing so may cause severe damage to the engine or turbocharger unit.

Starting the engine with smart key

The vehicle 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 and when the smart key is far away from the driver, the vehicle may not start.
When the vehicle is in the ACC or ON position, if any door is open, the system will check for the smart key.
When the smart key is not in the vehicle, the ( ) indicator will blink and **Key not in vehicle** warning message will appear on the cluster. When all doors are closed, the chime will also sound for a few seconds. Keep the smart key in the vehicle.

WARNING

The vehicle only starts when the smart key is in your vehicle. Never allow a child or any person who is unfamiliar with your vehicle to touch the ENGINE START/STOP button or related parts. Pressing the ENGINE START/STOP button while the smart key is in your vehicle may result in unintended engine operation or vehicle movement.

⚠ WARNING

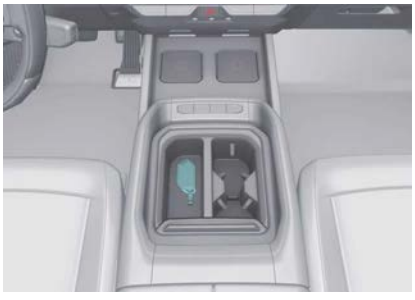
If the engine stalls while your vehicle is in motion, do not attempt to shift to P (Park). If traffic and road conditions permit, you may shift to N (Neutral) while your vehicle is still moving, and press the ENGINE START/STOP button to attempt to restart the engine.

NOTE

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.

TIP



OLQ2A095002

- If the smart key battery is weak or the smart key does not work correctly, you can start the vehicle by placing the smart key on the key recognition area located on the center console and then pressing the ENGINE START/STOP button in OFF position.
- If the stop lamp fuse is blown, you cannot start the engine normally.

  Replace the fuse with a new one. If this is not possible, start the vehicle by pressing the ENGINE START/STOP button in the ACC position for 10 seconds. The vehicle can start without the brake pedal engaged, but for your safety, always engage the brake pedal before starting the vehicle.

Automatic Transmission (AT)

The automatic transmission has 8 forward speeds and 1 reverse speed. The transmission selects the individual speeds automatically depending on the balance between the fuel economy and the power.



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OLQ2A095004

- Select the gear position by turning the shift lever.
  For your safety, always engage the brake pedal while shifting to another gear.
- Press P button to shift to P (Park).

Automatic transmission operation

For smooth operation, engage the brake pedal when shifting from N (Neutral) to D (Drive) or R (Reverse).

TIP

The first few automatic gear shifts on a new vehicle may be somewhat abrupt if the battery has been disconnected. This is normal, and the shifting sequence adjusts after the TCM (Transmission Control Module) or PCM (Powertrain Control Module) cycles through the gear shifts a few times.

WARNING

- Always check the surrounding areas near your vehicle for people, especially children, before shifting the gear to D (Drive) or R (Reverse).
- Before exiting, always make sure to shift to P (Park), fully apply the parking brake, and start the vehicle from the OFF position. The vehicle may move suddenly and unexpectedly if you do not take these precautions.
- In manual shift mode, use caution when shifting from a higher gear to a lower gear on slippery roads. This could cause the tires to slip, which may result in an accident.

NOTE

- To avoid damaging your transmission, do not accelerate while in R (Reverse) or in any forward gear position with the brakes engaged.

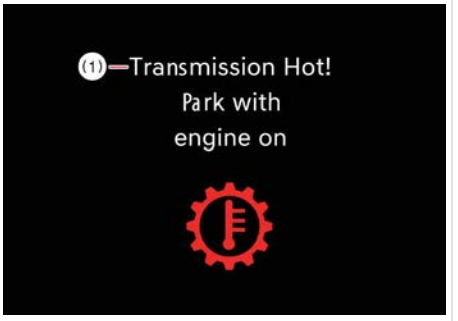
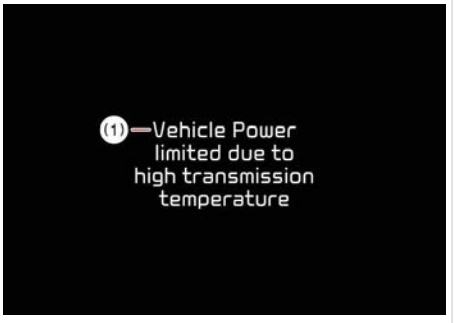
- Do not shift from N (Neutral) or P (Park) to D (Drive) or R (Reverse) when the engine is above idle speed.
- When stopped on an incline, do not use engine power to keep your vehicle stationary. Use the service brake or the parking brake.
- Do not rely on the transmission to keep your vehicle parked on an incline. Use the parking brake.

TIP

If there is a transmission failure, the gear position indicator on the instrument cluster blinks, and your vehicle may not move. If this happens, have your vehicle checked by an authorized Kia dealer.

Instrument cluster display for warning message

The instrument cluster displays each of the following warning messages when applicable:

Message	Description
 OCL4M035100N	(1) **Transmission Hot! Park with engine on** • When driving under severe conditions, such as repeated sudden starts and sudden acceleration, the transmission may overheat. The vehicle's self-protection mode will issue a warning sound as well as a warning message on the instrument cluster. • Pull over to a safe location, stop your vehicle with the engine running, engage the brake pedal, shift to P (Park), and allow the transmission to cool. • If the warning message still appears, have your vehicle checked by an authorized Kia dealer.
 OCL4M035101N	(1) **Vehicle power limited due to high transmission temperature** • This warning message appears when the transmission overheats and reaches its maximum temperature while you are driving. The vehicle's self-protection mode limits the transmission power. • In this case, your vehicle is restricted from normal driving until the transmission temperature reduces to normal. After you move the vehicle to a safe place, shift to P (Park) with the engine running and wait several minutes until the warning message disappears. • If the warning message still appears, have your vehicle checked by an authorized Kia dealer to prevent unexpected accidents.
 OCL4M035102N	(1) **Trans cooled. Resume driving.** • You can continue to drive your vehicle when the message appears.

WARNING

If any warning message on the instrument cluster continues to blink, have your vehicle checked by an authorized Kia dealer.

Transmission ranges

The indicator on the instrument cluster displays the shift lever position when the vehicle is in ON position.



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P (Park)

Always come to a complete stop before shifting to P (Park). This position locks the transmission and prevents the driven wheels from rotating.

WARNING

- Shifting to P (Park) while your vehicle is in motion causes the drive wheels to lock. This can damage the transmission and cause you to lose control of your vehicle.
- Do not shift to P (Park) instead of applying the parking brake. Always make sure the vehicle is in (Park) and fully apply the parking brake.
- Never leave a child unattended in your vehicle.
- Shifting the gear to P (Park) while the vehicle is in motion may damage the transmission.

R (Reverse)

Shift to R (Reverse) to drive your vehicle backward.

Shift lever will vibrate to indicate the vehicle is shifted to R (Reverse).

NOTE

Always come to a complete stop before shifting to or from R (Reverse). Shifting to R (Reverse) while your vehicle is moving forward may damage the transmission, except as explained in "Special driving conditions" on page 429.

N (Neutral)

In N (Neutral), the wheels and transmission are not engaged. Your vehicle can roll freely, even on

the slightest incline, unless you apply the parking brake or service brake.

WARNING

- Always park the vehicle in P (Park) and apply the parking brake for safety. If you leave the gear in N (Neutral), the vehicle may move and cause serious damage and injury.
- After you turn the vehicle to the OFF position, you cannot release the Electronic Parking Brake (EPB).
- When you use the AUTO HOLD function while driving a vehicle equipped with EPB, if you turn the vehicle to the OFF position, the EPB is applied automatically. Turn the AUTO HOLD function off before you turn the vehicle to the OFF position.

WARNING

Do not drive or park with the vehicle in N (Neutral). The engine brake does not work in N (Neutral), which may lead to an accident.

D (Drive)

D (Drive) is the normal forward driving gear shift position. The transmission automatically shifts through an 8 forward gear sequence to provide the best fuel economy and power.

For extra power when passing another vehicle or climbing uphill, engage the accelerator fully. The transmission automatically shifts down to the next lowest gear.

NOTE

Always come to a complete stop before shifting to D (Drive).

To stay in N (Neutral) when engine is OFF

If you want to stay in N (Neutral) after the engine is off (in ACC position), do the following:



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OLQ2A095006

1. Deactivate AUTO HOLD and release the parking brake when the vehicle is in ON position.
2. Depress the brake pedal.
3. Shift to N (Neutral).
4. Take your foot off the brake pedal, and the warning message will appear on the instrument cluster.

5. Press and hold the OK button on the steering wheel for more than 1 second.
   If the EPB is applied, release the Electronic Parking Brake (EPB) manually while depressing the brake pedal.
   If equipped with Electronic Parking Brake, it is not released automatically when you shift to N (Neutral).
6. Press the ENGINE START/STOP button after the message appears on the instrument cluster. The vehicle stays in N (Neutral) after turning off the vehicle.

TIP

However, if you open the driver's door within 30 minutes in ACC position, the vehicle will automatically shift to P (Park) and the vehicle will change to OFF position.

NOTE

Do not open the driver's door when going through an automatic car wash tunnel machine. Failure to follow this instruction can damage your vehicle or the car wash machine.

If the driver's door is opened within 30 minutes after shifting to N (Neutral), your vehicle will automatically shift to P (Park).

For vehicles equipped with EPB, the parking brake is automatically applied.

NOTE

With the vehicle in N (Neutral), the vehicle will be in the ACC position. Note that the doors cannot be locked in ACC position or the 12V battery may discharge if left in the ACC position for a long period.

Shift lock system

For your safety, the transmission has a shift lock system that prevents you from shifting the transmission from P (Park) to R (Reverse) unless the brake pedal is engaged.

To shift from P (Park) to R (Reverse):

1. Engage and hold the brake pedal.
2. Start the vehicle to ON position.
3. Shift the vehicle.
   If you repeatedly engage and release the brake pedal with the vehicle in P (Park), you may hear a chattering noise and vibration. This is normal.

WARNING

Always engage the brake pedal fully before and while moving the vehicle from P (Park) into another position to avoid inadvertent vehicle motion, which could injure people in or around the vehicle.

Good driving practices

- Never shift from P (Park) or N (Neutral) to any other position with the accelerator pedal engaged.

- Never shift into P (Park) while the vehicle is in motion.
- Be sure you have completely stopped the vehicle before you attempt to shift to R (Reverse) or D (Drive).
- Never shift the vehicle out of gear and coast down a hill. This may be extremely hazardous. Always leave the vehicle in gear while moving.
- Do not constantly engage (i.e."ride") the brakes. This can cause them to overheat and malfunction. Instead, when you are driving down a long hill, slow down and shift to a lower gear. When you do this, engine braking will help slow down the vehicle.
- Slow down before shifting to a lower gear. Otherwise, the lower gear may not be engaged.
- Reduce speed when driving in crosswinds to maintain better vehicle control.
- 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 the vehicle's speed can cause the drive wheels to lose traction, resulting in a loss of control over the vehicle.
- Smoothly engage and release the accelerator pedal for optimal vehicle performance and fuel economy.
- Always apply the parking brake. Do not depend on shifting to P (Park) to keep the vehicle from moving.

⚠ WARNING

- When driving uphill or downhill, always shift to D (Drive) for driving forward or R (Reverse) for driving backward. Check the gear position displayed on the instrument cluster before driving. Driving in the opposite direction of the selected gear can put you in danger by turning off the engine and affecting the braking performance.
- Always buckle up! In a collision, an unbelted occupant is significantly more likely to be seriously injured or killed than a properly belted occupant.
- Avoid high speeds when turning.
- Do not make quick steering wheel movements (such as sharp lane changes or fast, sharp turns).
- Losing control of your vehicle at high speeds greatly increases the risk of a rollover.
- Loss of control often occurs if two or more wheels drop off the road and you oversteer to reenter the road.
- If your vehicle leaves the road, do not steer sharply. Instead, slow down before gradually reentering the travel lanes. Abruptly steering to reenter the road risks loss of control of the vehicle, serious injury, and death.
- Never exceed posted speed limits.
- If your vehicle becomes stuck in snow, mud, sand, and so on, then you may attempt to rock it free by moving it forward and backward. Do not attempt this procedure if people or objects are anywhere near the vehicle. The vehicle may suddenly move forward or backward as it becomes unstuck, causing injury or damage to nearby people or objects.

Moving up a steep grade from a standing start

To move up a steep grade from a standing start, engage the brake pedal and perform the following actions:

- Select the appropriate gear depending on load weight and steepness of the grade and release the parking brake. Engage the accelerator gradually after releasing the service brakes.

Paddle shifter

The paddle shift function is available when the vehicle is in D (Drive).



OLQ2A095007

With the gear in D (Drive)

The paddle shift function operates when your speed is above 6 mph (10 km/h).
Pull the (+) or (-) paddle shifter once to shift up or down one gear. The system changes from automatic mode to manual mode.
To change from manual shift mode back to automatic shift mode, perform one of the following actions:

- Pull the (+) paddle shifter for more than 1 second.
- Shift to D (Drive).

Manual shift mode also changes back to automatic shift mode in any of following situations:

- You gently engage the accelerator pedal for more than 6 seconds while driving.
- You stop the vehicle.

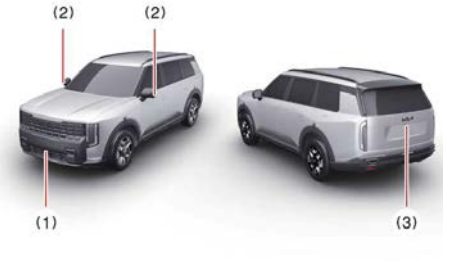
TIP

If you pull both paddle shifters at the same time, you cannot shift the gear.

Ground View Monitor (GVM) (if equipped)

Ground View Monitor (GVM) helps drivers check the road conditions and avoid obstacles by providing a clear view of the front lower part of the vehicle through the monitor. Also, it supports safe driving and parking in a tight space.

Detecting sensor



OLQ2AXL095001_2

(1) Wide-front view camera
(2) Wide-side view camera (under the exterior mirror)
(3) Wide-rear view camera

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

Ground View Monitor (GVM) operation



OLQ2A005103



OLQ2A005118

Swipe left in the **Off-road** menu on the infotainment system screen to access the Ground View Monitor.

In the **Off-road** menu, the Ground View Monitor will be turned off under the following conditions:

- Shifting to R (Reverse)
- Pressing the Parking/View button in the top left corner of the Ground View infotainment system screen
- Pressing the back button in the **Off-road** menu or the Home button on the infotainment system screen
- Pressing the Parking/View button or the infotainment system power button

TIP

- When the vehicle speed exceeds 6 mph (10 km/h), the Ground View Monitor turns off and reactivates when the speed drops to 6 mph (10 km/h) or below.
- The ground view image resets 10 seconds after the vehicle stops and shifted to P (Park) or D (Drive).
- When the Ground View Monitor is active, the Surround View Monitor does not turn on automatically, even if the Parking Distance Warning is activated.
- The ground view image resets when shifting to N (Neutral).

Ground View Monitor (GVM) malfunction and limitations

Malfunction

If the Ground View Monitor malfunctions, the screen may appear green, blue, gray, or black. When Ground View Monitor is not working properly, the screen flickers, or the camera image does not display normally, have your vehicle checked by an authorized Kia dealer.

Limitations

The screen may be displayed abnormally under the following circumstances:

- When the liftgate is opened
- When the driver or front passenger door is opened
- When the side view mirror is folded
- If the wheel size is arbitrarily changed, the ground view may not operate normally.
- Ground View Monitor may not operate normally when driving in an environment where wheels may slip, such as snow or black ice.

TIP

For Ground View Monitor malfunctions and limitations, refer to the Surround View Monitor malfunction and limitations.

Brake system

Your vehicle has power-assisted brakes, a parking brake, and various braking system enhancements for safe driving.

Power-assisted brakes

- If the power-assisted brakes lose power because of a stalled engine or some other reason, you can still stop your vehicle by engaging the brake pedal with greater force than you normally would. However, the required stopping distance will be greater.
- When the engine is not running, the reserve brake power is partially depleted each time you engage the brake pedal. Do not engage the brake pedal when the power assist has been interrupted.
- Only engage the brake pedal when necessary to maintain steering control on slippery surfaces.
- Wet brakes may impair your vehicle's ability to slow down safely; your vehicle may drift to one side when you engage the brake pedal. Lightly engaging the brake pedal indicates whether the brakes have been affected in this way. Always test your brakes in this fashion after driving through deep water. To dry the brakes, engage them lightly while maintaining a safe forward speed until brake performance returns to normal.

WARNING

Steep hill braking

To avoid continuous engagement of the brake pedal when descending a long or steep hill, shift the vehicle to a lower gear. Continuous engagement of the brakes can cause them to overheat and could result in a temporary loss of braking performance.

NOTE

Brake pedal

Do not drive with your foot resting on the brake pedal. This creates abnormally high brake temperatures, which can cause excessive wear to the brake lining and pad.

TIP

- When you engage the brake pedal under certain driving or weather conditions, you may hear noise. This is not a brake malfunction.
- When driving on a road where de-icing chemicals have been applied, you may hear noises from the brake or abnormal abrasion of tires. Engage the brake pedal under safe traffic conditions to remove the de-icing chemicals from the brake disk and pad.

In the event of brake failure

If the service brakes fail to operate while your vehicle is in motion, you can make an emergency stop by applying the parking brake. However, the required stopping distance will be much greater than normal. However, Kia brake systems are designed with redundancy so that brake failure should never happen absent some extraordinary circumstance.

WARNING

Parking brake
Avoid applying the parking brake to stop your vehicle while it is moving except in an emergency. Applying the parking brake while your vehicle is moving at normal speeds can cause a sudden loss of control of your vehicle. If you must use the parking brake to stop your vehicle, use great caution.

Brake over accelerator

If the accelerator pedal is stuck or entrapped, engage the brake pedal with steady and firm pressure to slow down your vehicle and reduce engine power. These systems are designed to provide priority to the brake pedal over the accelerator pedal.
If this happens, follow these steps:

1. Engage the brake pedal and bring your vehicle to a safe stop.
2. Shift to P (Park), turn off the vehicle, and apply the parking brake.
3. Inspect the accelerator pedal for any interference.

If you do not find any interference and the accelerator pedal is still stuck, have your vehicle checked by an authorized Kia dealer.

Disc brake 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 engage the brake pedal.
Always replace the front or rear brake pads as pairs.

WARNING

Brake wear
Do not ignore high pitched sounds from your brakes indicating brake wear. If you ignore this sound, you will eventually lose braking performance, which could lead to a serious accident.

NOTE

Replace brake pads
Do not continue to drive your vehicle with worn brake pads. Driving with worn brake pads can damage the braking system and result in costly brake repairs.

TIP

Brake dust may accumulate on the wheels, even under normal driving conditions. Some dust is inevitable as the brakes wear, which contributes to noise from the brakes.

Brake Disc Wiping (BDW) (if equipped)

In rainy conditions, light braking may be briefly applied to remove moisture from the brake disc surface and maintain braking performance.

Electronic Parking Brake (EPB)

After parking your vehicle, apply the EPB to prevent any external force from moving your vehicle.

Applying the parking brake

Applying the parking brake with EPB switch



OLQ2A095009

1. Depress the brake pedal.
2. Pull up the EPB switch.
3. Make sure the brake warning light illuminates.

If AUTO HOLD button is on when you turn off your vehicle, the EPB is applied automatically. If you pull up the EPB switch after you turn off your vehicle, the EPB is applied.

WARNING

Never leave children or animals unattended in your vehicle. They may be able to set your vehicle in motion by:

- Releasing the parking brake.
- Shifting out of P (Park).
- Starting the vehicle.
- Operating vehicle equipment.

TIP

- If your vehicle does not remain at a standstill when you are on a steep incline or pulling a trailer, perform the following actions:
  1. Apply the EPB.
  2. Pull up the EPB switch for more than 3 seconds.
- Do not apply the EPB while your vehicle is moving except in an emergency.
- You may hear a click or electric brake motor whine sound while applying or releasing the EPB. This is normal and indicates that the EPB is functioning properly.

Automatic application of EPB

The EPB is applied automatically under the following conditions:

- You shift to P (Park) while on a slope.
- You turn the vehicle off while AUTO HOLD is enabled.
- Your vehicle moves a bit while the vehicle is in P (Park).
- While AUTO HOLD is activated:
  - You open the driver side door.
  - You open the hood.
  - You open the liftgate.
  - You stop the vehicle for more than approximately 10 minutes while on a steep slope.
- Other systems request application of the EPB.

TIP

For EPB-equipped vehicles using the AUTO HOLD function while driving, the EPB is engaged automatically if the vehicle is in OFF position. Turn off the AUTO HOLD function before pressing the vehicle is in OFF position.

Emergency braking with the EPB switch

If there is a problem with the brake pedal while driving, pull up and hold the EPB switch for emergency braking.
Emergency braking is possible only while you are holding the EPB switch.

WARNING

Do not apply the EPB while your vehicle is moving except in an emergency. Applying the EPB while your vehicle is moving at normal speeds can cause a sudden loss of control of your vehicle, resulting in an accident causing serious injury or death. If you must use the EPB to stop your vehicle, use great caution in applying the brake.

TIP

During emergency braking by the EPB, the brake warning light indicates that the system is operating.

If EPB is used for emergency braking, have your vehicle checked by an authorized Kia dealer.

Releasing the parking brake

Releasing the parking brake with EPB switch



OLQ2A095010

1. Turn on the vehicle.
2. Engage the brake pedal.
3. Press the EPB switch.
4. Make sure the brake warning light is off.

Automatic release of EPB

The EPB is released automatically under following conditions:

- **The vehicle is in P (Park)**

  With the vehicle running, engage the brake pedal and shift from P (Park) to R (Reverse) or D (Drive).

- **The vehicle is in N (Neutral)**

  With the vehicle running, engage the brake pedal and shift from N (Neutral) to R (Reverse) or D (Drive).

For Automatic Transmission

1. Start the vehicle.
2. Fasten the driver's side seatbelt.
3. Close the driver side door, the hood, and the liftgate.
4. Engage the accelerator pedal while the vehicle is in R (Reverse), or D (Drive).

Make sure the brake warning light is off.

NOTE

Do not drive your vehicle with the EPB applied. Doing so may cause excessive brake pad and brake rotor wear.

WARNING

- Do not follow the procedure below when driving on flat, level ground. Your vehicle may suddenly move forward.
  - You can engage the EPB even though the vehicle is in OFF position, but you cannot release the EPB.
  - Engage the brake pedal and release the parking brake manually with the EPB switch when driving downhill or backing up your vehicle.
- If the brake warning light remains illuminated after you release the EPB, have your vehicle checked by an authorized Kia dealer.

Instrument cluster display for warning message

The instrument cluster displays each of the following warning messages when applicable:

An EPB warning appears and an audible warning sounds in the following conditions:

- You try to drive by engaging the accelerator pedal with the EPB applied, but the EPB doesn't release automatically.
- When you try to drive with the EPB on, but it doesn't release automatically, a warning will sound and a message will appear.



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(1) **To release EPB, close the doors, the hood and the trunk/liftgate and fasten the seatbelt.**

Engage the brake pedal and release the EPB using the EPB switch.

WARNING

Parking brake use

- Never allow a passenger or anyone who is unfamiliar with your vehicle to touch the EPB switch. If the parking brake is released unintentionally, serious injury or death may occur.
- Always fully engage the parking brake when parked to avoid inadvertent movement of your vehicle, which can injure occupants or pedestrians.

- You may hear a click or electric brake motor whine sound while engaging or releasing the EPB. This is normal and indicates that the EPB is functioning properly.
- When leaving your keys with a parking lot attendant or valet, inform them how to apply the EPB.
- The EPB may malfunction if you drive with it applied.
- When you automatically release the EPB by engaging the accelerator pedal, engage it slowly.

When the conversion from AUTO HOLD to EPB is not working properly, the system displays the following warning message with sound:



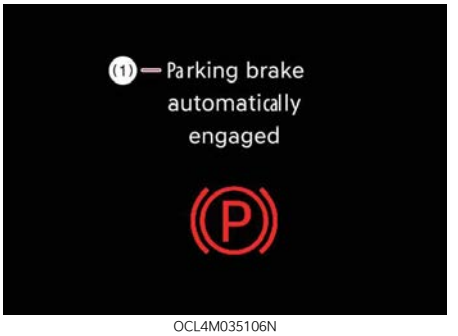
OCL4M035105N

(1) **Press brake pedal to deactivate AUTO HOLD**

TIP

When this warning message appears, engage the brake pedal to deactivate AUTO HOLD.

If you apply the EPB while AUTO HOLD is activated because of an Electronic Stability Control (ESC) signal, the system displays the following warning message with sound:



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(1) **Parking brake automatically engaged**

EPB malfunction indicator

If the vehicle is in ON position, and the vehicle turns off after approximately 3 seconds while the system is operating normally, the following warning light appears.



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If the EPB malfunction indicator appears while you are driving, or does not appear when the vehicle is in ON position, this indicates that the EPB may have malfunctioned. Have your vehicle checked by an authorized Kia dealer.

When the ESC indicator appears because the ESC is not working properly, the EPB malfunction indicator may also appear. This does not indicate a malfunction of the EPB.

NOTE

The EPB warning light may appear if the EPB switch operates abnormally. Turn the engine off, then turn it back on after a few minutes. The warning light disappears, and the EPB switch operates normally. If the EPB warning light remains on, have your vehicle checked by an authorized Kia dealer.

If the EPB warning light blinks or does not appear, even when you pull up the EPB switch, this indicates that the EPB has not been applied.

If the EPB warning light blinks, press and then pull up the EPB switch. Press it back into its original position and pull it back up. If the EPB warning light does not turn off, have your vehicle checked by an authorized Kia dealer.

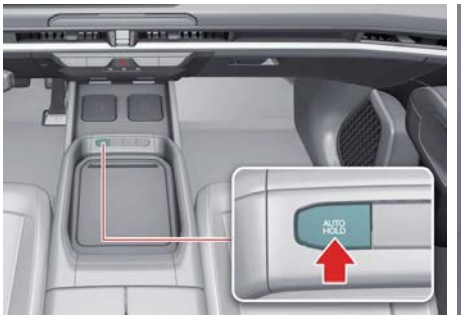
When the EPB is not released

If the EPB does not release normally, load your vehicle onto a flatbed tow truck and have your vehicle checked by an authorized Kia dealer.

AUTO HOLD

The AUTO HOLD function keeps your vehicle still, even if you do not continue to hold your foot on the brake pedal after you bring your vehicle to a complete stop.

Applying AUTO HOLD function



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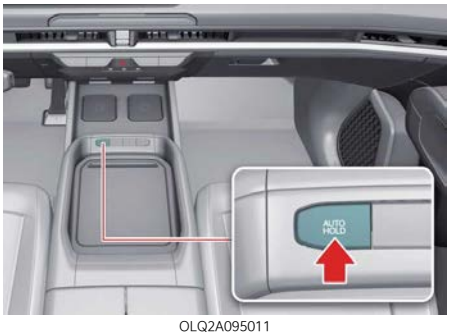
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1. Engage the brake pedal and start your vehicle.
2. Press the AUTO HOLD button. The white AUTO HOLD indicator light appears, indicating that the system is in standby.
   Before the AUTO HOLD function engages, you must close the driver's side door and the hood.

TIP

- When you come to a complete stop by engaging the brake pedal, the AUTO HOLD indicator light changes from white to green, indicating that AUTO HOLD is engaged. Your vehicle remains at a standstill even if you release the brake pedal.
- If the EPB is applied, AUTO HOLD will be released.
- If you engage the accelerator pedal with the vehicle in D (Drive), the AUTO HOLD function is released automatically, and your vehicle starts to move. The AUTO HOLD indicator light changes from green to white, indicating that the AUTO HOLD function is in standby and the EPB is released.
- When driving after releasing AUTO HOLD by engaging the accelerator pedal, always check your surroundings.
- Engage the accelerator pedal slowly for a smooth forward motion.

Canceling AUTO HOLD function



OLQ2A095011

1. To cancel AUTO HOLD function, press the AUTO HOLD button. The AUTO HOLD indicator turns OFF.
2. To cancel AUTO HOLD function when your vehicle is at a standstill, press the AUTO HOLD while engaging the brake pedal.

WARNING

To reduce the risk of an accident, do not activate AUTO HOLD while driving downhill, backing up, or parking your vehicle.

NOTE

- If the AUTO HOLD indicator light turns yellow, the AUTO HOLD function is not working properly. Have your vehicle checked by an authorized Kia dealer.
- If there is a malfunction with the driver side door or hood open detection system, the AUTO HOLD function may not work properly. Have your vehicle checked by an authorized Kia dealer.
- You may hear a click or electric brake motor whine sound while engaging or releasing the EPB. This is normal and indicates that the EPB is functioning properly.

TIP

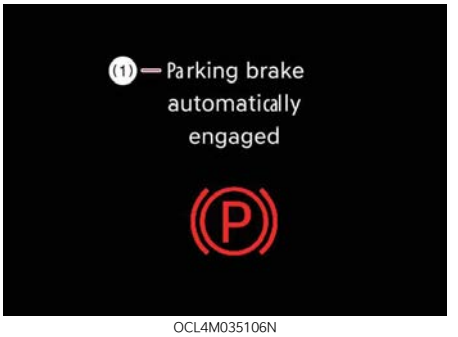
- AUTO HOLD does not engage under the following are conditions (the AUTO HOLD indicator light does not turn green, and the AUTO HOLD function remains in standby):
  - You open the driver side door.
  - You open the hood.
  - You shift to P (Park).
  - You apply the EPB.
- AUTO HOLD automatically switches to EPB under any of the following conditions (the AUTO HOLD indicator light remains white and the EPB applies automatically):
  - You open the driver side door.
  - You open the hood.
  - Your vehicle is at a standstill for more than 10 minutes.
  - Your vehicle is at a standstill on a steep slope.

◦ You moved your vehicle for a few seconds.
In these cases, the brake warning light appears, the AUTO HOLD indicator light changes from green to white, a warning sounds, and a message appears to inform you that the EPB has been applied automatically. Before driving again, engage the brake pedal, check your surroundings, and use the EPB switch to manually release the parking brake.

Instrument cluster display for warning message

The instrument cluster displays each of the following warning messages when applicable:

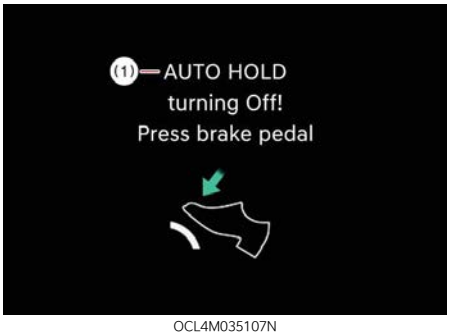
When you apply the EPB from AUTO HOLD:



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(1) **Parking brake automatically engaged**

When the conversion from AUTO HOLD to the EPB does not work properly:



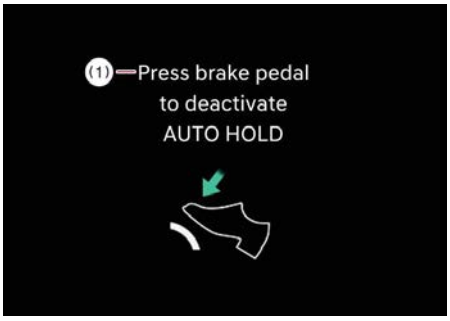
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(1) **AUTO HOLD turning Off! Press brake pedal**

WARNING

When this message appears, the AUTO HOLD function and the EPB may not operate. For your safety, engage the brake pedal.

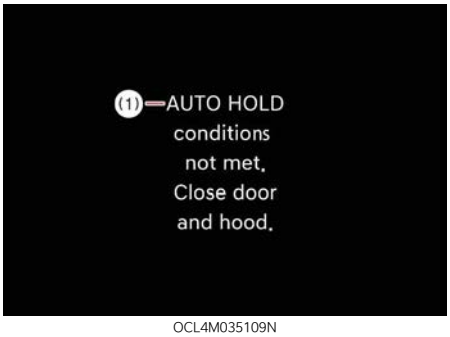
If you do not engage the brake pedal when you release the AUTO HOLD function by pressing the AUTO HOLD button, a warning sounds and a message appears:



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(1) **Press brake pedal to deactivate AUTO HOLD**

When you press the AUTO HOLD button while the driver side door and hood are open, a warning sounds and a message appears:



OCL4M035109N

(1) **AUTO HOLD conditions not met. Close door and hood.**

Press the AUTO HOLD button after closing the driver side door and hood.

Good braking practices

Good braking practices help keep occupants safe and extend the life of your brakes.

- Check to be sure that the parking brake is not applied and the parking brake indicator light is OFF before driving.
- Driving through water may wet the brakes. The brakes can also get wet when you wash your vehicle. Wet brakes can be dangerous! Your vehicle does not stop as quickly when the brakes are wet. Wet brakes also may cause your vehicle to drift to one side.

  To dry the brakes, lightly engage the brake pedal until the braking action returns to normal, taking care to always keep your vehicle under control. If the braking action does not return to normal, stop as soon as it is safe to do so and visit an authorized Kia dealer.
- Don't coast down hills with your vehicle out of gear (e.g. in Neutral). This can be extremely hazardous. Always keep your vehicle in gear, use the brakes to slow down, and then shift to a lower gear so that vehicle braking action helps you maintain a safe speed.
- Don't continuously or constantly apply (i.e. "ride") the brake pedal. Resting your foot on the brake pedal while driving is dangerous because it can cause the brakes to overheat and lose their effectiveness. It also increases wear on the brake components.

- If a tire goes flat while you are driving, gently engage the brake pedal and keep your vehicle pointed straight ahead while you slow down. Pull off the road and stop in a safe place once you are moving slowly enough to do so.
- Be cautious when parking on a hill. Firmly apply the parking brake shift the gear to P (Park). If your vehicle is facing downhill, turn the front wheels toward the curb to help keep your vehicle from rolling.

  If your vehicle is facing uphill, turn the front wheels away from the curb to help keep your vehicle from rolling. If there is no curb and other conditions require you to keep your vehicle from rolling, block the wheels.
- Under some conditions, your parking brake can freeze while applied. This is most likely to occur when the brakes are wet, or when there is an accumulation of snow or ice near the rear brakes. If there is a risk that the parking brake may freeze, only apply it temporarily while you shift the gear to P (Park). Block the rear wheels so your vehicle cannot roll. Then release the parking brake.
- Do not use the accelerator pedal to hold your vehicle on an incline. This can cause the transmission to overheat. Always use the brake pedal or parking brake.

Vehicle safety system

Anti-lock Brake System (ABS)

The ABS is designed to help prevents the wheels from locking so that your vehicle remains stable and you can still steer it.

The ABS (or ESC) does not prevent accidents due to improper or dangerous driving maneuvers, or due to other than normal environmental conditions. Even though emergency braking improves vehicle control, always maintain a safe distance between your vehicle and objects ahead. Always reduce the vehicle speed during challenging or unusual road conditions under circumstances, including but not limited to:

- When driving on rough, gravel, or snow-covered roads
- When driving with tire chains installed
- When driving on roads where the surface is irregular, such as different surfaces, is pitted, or has different surface heights.

Driving in these conditions increases the required stopping distance for your vehicle.

The ABS continuously senses the speed of the wheels. If any wheel is about to lock, the ABS repeatedly modulates the hydraulic brake pressure to the affected wheels.

When you engage the brake pedal under conditions that may ordinarily lock the wheels, you may hear a "tik-tik" sound from the brakes or feel a corresponding sensation in the brake pedal. This is normal and means your ABS is active.

To obtain the maximum benefit from your ABS in an emergency, do not try to modulate your brake pressure or pump your brakes. Engage your brake pedal as hard as possible to allow the ABS to control the force being delivered to the brakes.

TIP

You may hear a click sound when your vehicle begins to move after you start it. This is normal and indicates that the ABS is functioning properly.

Even with the ABS, your vehicle still requires sufficient stopping distance. Always maintain a safe distance from vehicles ahead.

Always slow down when turning. The ABS cannot prevent accidents resulting from excessive speeds.

On loose or uneven road surfaces, operation of the ABS may result in a longer stopping distance than is required for vehicles equipped with a conventional brake system without ABS.

The ABS warning light ( ) stays on for approximately 3 seconds after the vehicle is in ON position.

The ABS goes through self-diagnosis, and the ABS warning light turns off if everything is normal. If the light stays on, there may be a problem with the ABS. Have your vehicle checked by an authorized Kia dealer.

When you drive on a road with poor traction (such as an icy road), and you have engaged the brake pedal continuously, the ABS will be continuously active, and the ABS warning light may appear. Pull over to a safe place and stop your vehicle.

Restart your vehicle. If the ABS warning light turns off, then your ABS is normal. If it remains on, you may have a problem with the ABS. Have your vehicle checked by an authorized Kia dealer.

TIP

When you jump start your vehicle because of a drained 12V battery, your vehicle may not run as smoothly, and the ABS warning light may appear at the same time. This happens because of low 12V battery voltage and does not indicate an ABS malfunction.

- Do not pump your brakes.
- Recharge the 12V battery before driving your vehicle.

Electronic Stability Control (ESC)

The ESC is designed to help stabilize your vehicle when turning to mitigate against loss of control that could lead to an accident.



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ESC engages the brakes on individual wheels and intervenes with your vehicle management system to stabilize your vehicle.

ESC does not prevent accidents. Excessive speed in turns, abrupt maneuvers, and hydroplaning on wet surfaces can still result in serious accidents.

Only a safe and attentive driver can prevent accidents by avoiding maneuvers that could cause the vehicle to lose traction. Even with ESC installed, always follow all the normal precautions for driving, including driving at safe speeds for the road conditions.

WARNING

For maximum protection, always wear your seat belt. No system, no matter how advanced, can compensate for all driver errors or driving conditions. Always drive responsibly.

The ESC is an electronic system that helps you maintain control of your vehicle under adverse conditions. It is not a substitute for safe driving practices. Factors such as speed, road conditions, and driver steering input can all affect whether ESC is effective in preventing a loss of control. It is still your responsibility to drive and turn at reasonable speeds and to leave a sufficient margin of safety.

When you engage the brake pedal under conditions that may ordinarily lock the wheels, you may hear a "tik-tik" sound from the brakes or feel a corresponding sensation in the brake pedal. This is normal and means your ESC is active.

TIP

You may hear a click sound in your compartment when your vehicle begins to move after you start it. This is normal and indicates that the vehicle is functioning properly.

ESC operation

The ESC operates under the following conditions:

- When the vehicle is in ON position, ESC and ESC OFF indicator lights appear for approximately 3 seconds, and then the ESC system turns on.
- After you turn your vehicle on, press the ESC OFF button for at least half a second to turn the ESC OFF (the ESC OFF indicator appears). To turn the ESC on, press the ESC OFF button again (the ESC OFF indicator light disappears).
- When starting your vehicle, you may hear a slight ticking sound. This is the ESC performing an automatic system self-check and does not indicate a problem.

When operating

When the ESC is operating, the ESC indicator light blinks.
When the ESC is operating properly, you can feel a slight pulsation in your vehicle. This is normal.
When moving out of mud or driving on a slippery road, engaging the accelerator pedal may not increase your vehicle's engine speed (rpm).

ESC operation OFF

Your vehicle has two OFF states for the ESC. If you stop your vehicle when ESC is OFF, ESC remains off. When you restart your vehicle, ESC automatically turns on.

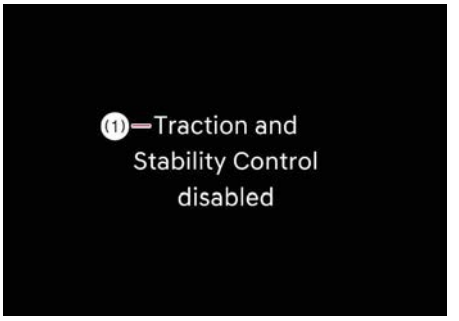


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(1) **Traction Control disabled**

ESC OFF state 1

To turn off the traction control function and only operate the ESC's brake control function, press the ESC OFF button (ESC OFF) for less than 3 seconds. The ESC OFF indicator light (ESC OFF) appears.



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(1) **Traction and Stability Control disabled**

ESC OFF state 2

To turn the ESC's traction control and brake control functions off, press the ESC OFF button (ESC OFF) for more than 3 seconds. The ESC OFF indicator light (ESC OFF) appears and the ESC OFF warning chime sounds. ESC does not operate.

Indicator light

ESC indicator light



WKIA_041

ESC OFF indicator light



WKIA_042

When the vehicle is in ON position, the ESC OFF indicator light appears and then disappears if the ESC is operating normally.

The ESC indicator light blinks when ESC is operating, or appears when ESC fails to operate.

The ESC OFF indicator light appears when you use the button to turn the ESC system off.

WARNING

ESC

Drive carefully even though your vehicle has ESC. It can only assist you in maintaining control under certain circumstances. It is not a substitute for safe driving practices.

ESC OFF usage

When driving

- Keep the ESC system turned on whenever possible.
- To turn the ESC system off, press the ESC OFF button while driving on a flat road surface.

WARNING

Operating ESC
Never press the ESC OFF button while the ESC system is active (the ESC indicator light blinks).
If you turn the ESC system off while it is active, your vehicle may lose control.

NOTE

- When operating the vehicle on a dynamometer, ensure that the ESC system is turned off (the ESC OFF indicator light appears). If the ESC system is left on, it may prevent the vehicle speed from increasing, resulting in a false diagnosis.
- Turning the ESC system off does not affect ABS or brake system operation.

Vehicle Stability Management (VSM)

The VSM can further enhance the vehicle stability and steering responses under the following conditions:
- When driving on a slippery road.
- When the vehicle detects a change in the coefficient of friction between the left and right wheels.

WARNING

Tire and wheel size
When replacing tires and wheels, make sure they are the same size as the original tires and wheels. Driving with varying tire or wheel sizes may diminish any supplemental safety benefits of the VSM.

VSM operation

When the VSM is operating properly, you may feel a slight pulsation in your vehicle or unusual steering responses (MDPS). This is normal.
The VSM does not operate under the following conditions:
- You are driving on a banked road, such as a gradient or incline.
- You are driving in R (Reverse).
- The ESC OFF indicator light remains on the instrument cluster.
- The MDPS indicator light remains on the instrument cluster.

VSM operation OFF

If you press the ESC OFF button to turn the ESC system off, the VSM system also cancels, and the ESC OFF indicator light (OFF) appears.
To turn the VSM system on, press the ESC OFF button again. The ESC OFF indicator light turns off.

⚠ WARNING

VSM management

Drive carefully even though your vehicle has VSM. It can only assist you with maintaining control of your vehicle under certain circumstances. It is always your responsibility to drive safely.

Malfunction indicator

The VSM may deactivate even if you do not press the ESC OFF button to cancel VSM operation. This indicates that a malfunction has been detected somewhere in the MDPS system or VSM. If the ESC indicator light or MDPS warning light remains on, have your vehicle checked by an authorized Kia dealer.

The VSM is only a supplementary function, not a substitute for safe driving practices. It is your responsibility to always check the speed and distance from a vehicle ahead. Always hold the steering wheel firmly while driving.

Your vehicle is designed to handle in response to driver inputs, even with VSM installed. Always follow all the normal precautions for driving at safe speeds for the conditions, including driving in inclement weather and/or on irregular or slippery road.

⚠ WARNING

For maximum protection, always wear your seat belt. No system, no matter how advanced, can compensate for all driver errors or driving conditions. Always drive responsibly.

Hill-start Assist Control (HAC)

A vehicle has the tendency to roll backward when it starts moving after you have stopped it on a steep hill. The HAC system prevents your vehicle from rolling backward by engaging the brakes automatically for about 2 seconds.

The HAC system releases the brakes after about 2 seconds, or when you engage the accelerator pedal.

The HAC system activates for about 2 seconds, so when you start your vehicle, always engage the accelerator pedal.

⚠ WARNING

Maintaining brake pressure on an incline

HAC does not replace the need to engage the brake pedal when you are stopped on an incline. While stopped, make sure you maintain sufficient brake pressure to prevent your vehicle from rolling backward and causing an accident. Do not release the brake pedal until you are ready to accelerate.

Brake Assistant System (BAS)

The BAS may provide additional pressure when you momentarily and strongly engage the brake pedal in situations where sudden braking is required.

The BAS can reduce the time required for the ABS control to activate, and consequently reduces

the braking distance, by providing additional pressure to the brakes up to the point of ABS intervention.

BAS operation

The BAS operates under the following circumstances:

- Your vehicle speed is above 6 mph (10 km/h) and the ABS control is not activated.
- You have fully engaged the brake pedal over a certain level.
- The friction of the road surface is above a certain level.

BAS operation OFF

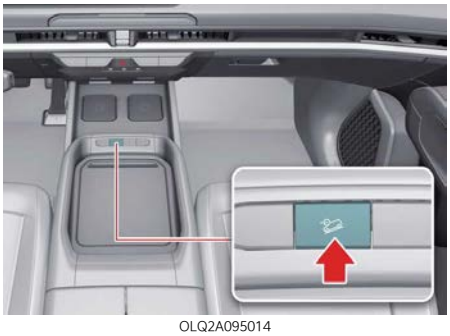
The BAS does not operate under the following circumstances:

- Your speed is below 3 mph (5 km/h).
- You engage the brake pedal in certain road conditions where the system does not function well.
- The friction of the road surface is below a certain level.

TIP

The system operates depending on your driving habits, the vehicle speed, the degree to which you engage the brake pedal, and the conditions of the road surface.

Downhill Brake Control (DBC)



OLQ2A095014

The DBC helps you descend a steep hill without having to engage the brake pedal.
The DBC automatically engages the brakes to maintain your vehicle speed of 2.5-25 mph (4-40 km/h) and allows you to concentrate on steering your vehicle as you drive downhill.
Always turn off the DBC on normal roads. DBC might activate inadvertently from standby mode when you drive over speed bumps or make sharp turns.

NOTE

The DBC defaults to off when vehicle is in ON position.
You may hear noise or feel vibration from the brakes when you activate the DBC. The rear brake light turns on when the DBC is activated.

DBC operation

Mode	Indicator light	Description
Standby	 lit	Press the DBC button when vehicle speed is below 38 mph (60 km/h). The DBC turns on in standby mode. The DBC does not turn on if the vehicle speed is above 38 mph (60 km/h).
Activated	 blinking	The DBC moves from standby mode to operating mode under the following conditions: • The road surface is inclined above a certain angle. • The accelerator pedal is not engaged. • Your vehicle speed is 2.5-25 mph (4-40 km/h) when moving forward., with MUD mode enabled in TERRAIN MODE. (2.5-5 mph in backwards) When the vehicle speed is 2.5-25 mph (4-40 km/h), you can increase or decrease the speed by engaging the accelerator or brake pedal.
Temporarily deactivated	 lit	The DBC temporarily deactivates under the following conditions: • The hill you are driving on is not steep enough. • The accelerator pedal is engaged. • Your speed is 25-38 mph (40-60 km/h). • Any other modes except MUD mode is selected in TERRAIN MODE, without pressing DBC button If these conditions are not met, the DBC automatically reactivates.
OFF	 unlit	The DBC turns off under the following conditions: • You press the DBC button again. • You engage the accelerator pedal and your speed is above 38 mph (60 km/h).
Overheated or Malfunctioned	 yellow	If the DBC indicator light turns yellow, the system may have overheated or malfunctioned. If the warning light appears even when the DBC has cooled off, have your vehicle checked by an authorized Kia dealer.

NOTE

- The DBC may not deactivate on steep inclines, even when the brake or accelerator pedal is engaged.
- The DBC does not operate when:
  - The vehicle is in P (Park).
  - The ESC is activated.
- If the DBC indicator light turns yellow, the system may have overheated or malfunctioned. If the warning light appears even when the DBC has cooled off, have your vehicle checked by an authorized Kia dealer.

Crosswind Stability Control (CSC)

Crosswind Stability Control (CSC) works with ESC and MDPS to stabilize the vehicle when it shakes, or loses traction from a strong crosswind.

Operating condition(s)

- When driving over a bridge or next to a large truck or bus, strong crosswinds may cause the vehicle to shake or lose traction. CSC automatically adjusts the vehicle position and steering wheel to correct course.
- When activated, the ESC indicator light illuminates and warning message appears on the instrument cluster display with a warning sound.
- When activated, the driver may feel a slight vibration of the vehicle and steering wheel, due to braking and MDPS.

Non-operating condition(s)

CSC may not operate, or may cancel its operation in the following conditions:

- Vehicle speed is below 45 mph (70 km/h) or above 112 mph (180 km/h).
- When the driver makes a sharp turn.
- When the brake pedal is depressed past a certain level.
- Driving on a bumpy road, ice, snow, or slippery surface such due to ice, snow, or rain.
- When ESC OFF indicator illuminates by turning off the ESC (ESC OFF state 2).
- ESC is activated.
- Driving assistance system (FCA, BCA, LKA, LFA, etc.) are activated.

Crosswind Stability Control (CSC) malfunction

- When ESC has problems, CSC does not operate.
- When MDPS has problems, CSC may partially operate.
- If the ESC or MDPS warning light stays illuminated or blinks, have your vehicle checked by an authorized Kia dealer.

WARNING

CSC is a supplementary system to assist the driver.The driver remains responsible for the control of the vehicle. Always hold the steering wheel while driving and depress the brake pedal to reduce speed if necessary.

Trailer Stability Assist (TSA)

TSA operates as a vehicle stability control system. TSA stabilizes your vehicle and trailer when the trailer sways or oscillates due to various factors.

Swaying typically happens when you drive at higher speeds, but there is also a risk of swaying when crosswinds, buffeting, or improper overloading affect the trailer.
The following factors can cause swaying:

- High speed
- Strong crosswinds
- Improper overloading
- Sudden movement or overcorrection of the steering wheel

• Uneven road

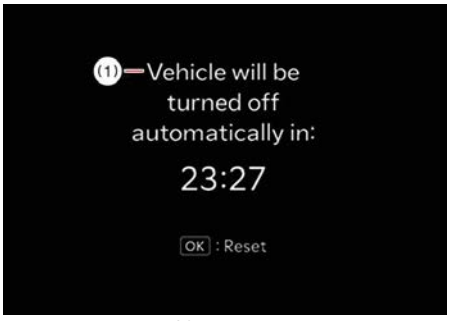
TSA continuously analyzes the vehicle and trailer for instability. When TSA detects swaying, the system engages the brake automatically to stabilize your vehicle. When the vehicle becomes stable, TSA stops.

WARNING

TSA is a supplementary system to assist the driver.The driver remains responsible for the control of the vehicle. Always hold the steering wheel while driving and depress the brake pedal to reduce speed if necessary.

Vehicle auto shut-off system (if equipped)

The Vehicle Auto Shut-off system automatically turns your vehicle off after a certain amount of time (set by you) to reduce fuel and energy consumption and prevent carbon monoxide poisoning.



OCL4M035112N

(1) **Vehicle will be turned off automatically in:**

When approximately 10 minutes remain on the Auto-Shut Off timer, a warning message appears on the instrument cluster. The remaining time is shown on the display. Press the OK button on the steering wheel to reset the Auto-Shut Off timer.

Activation requirements

The Vehicle Auto Shut-off system can be activated when all of the following requirements are satisfied:

- The vehicle is in the ON position.
- Your vehicle is stopped and the vehicle is in P (Park).
- The driver's seat belt is unfastened.
- The driver door is opened.
- The passenger seat is unoccupied.

TIP

- The default setting is 60 minutes.

Resetting the time

You can initialize and restart the Vehicle Auto Shut-Off system in the following conditions:

- You engage and release the brake pedal.
- You engage the accelerator pedal.
- You manually reset the timer.
- You press the OK button on the steering wheel.

Canceling the system

The Vehicle Auto Shut-off system automatically cancels in the following conditions:

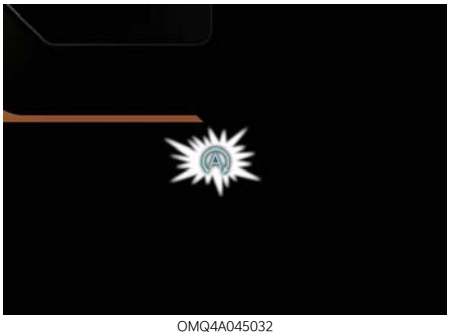
- You are driving at a speed above 2 mph (3 km/h).
- You shift to D (Drive), R (Reverse), or N (Neutral).
- You fasten your seat belt.

Idle Stop and Go (ISG)

Idle Stop & Go (ISG) system helps reduce fuel consumption by automatically stopping and restarting the engine. The engine restarts automatically when the required conditions are met.

AUTO STOP

If you engage the brake pedal and bring your vehicle to a complete stop while ISG is on, the engine automatically stops.
Bring your vehicle to a complete stop by engaging the brake pedal while the vehicle is in D (Drive) or N (Neutral).



OMQ4A045032

The engine stops and the green **AUTO STOP** indicator (Ⓐ) appears on the instrument cluster.

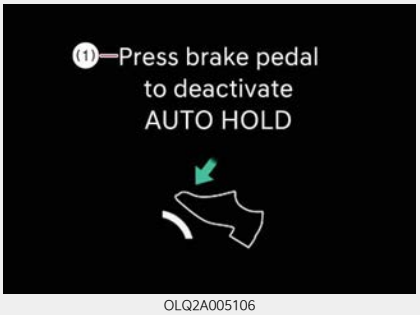


OLQ2A005105

(1) **Auto Stop is Off. Shift to P or N and start engine manually.**

NOTE

If you open the hood while your vehicle is in Auto stop mode, the following occur:
- ISG deactivates and the ISG OFF indicator light illuminates.
- A message appears on the instrument cluster:



OLQ2A005106

(1) **Press brake pedal to deactivate AUTO HOLD**

- If you shift from N (Neutral) to D (Drive) or R (Reverse) after the engine stops automatically without engaging the brake pedal, the engine does not restart automatically and an audible warning sounds. To enable auto start, engage the brake pedal.

AUTO START

When ISG automatically stops the engine, the engine restarts if you perform one of the following actions:

- You release the brake pedal.
- You shift to R (Reverse) or D (Drive) while engaging the brake pedal.

The engine starts and the green (Ⓐ) indicator disappears from the instrument cluster.

The engine automatically restarts on its own if any of the following occur:

- The brake vacuum pressure is low.
- The engine has stopped for approximately 5 minutes.
- The air conditioning is on with the fan speed set to the highest position.
- The front defroster is on.
- The 12V battery is weak.
- The cooling and heating performance of the climate control system is unsatisfactory.
- You shift to P (Park) when AUTO HOLD is active.
- You open the driver side door or unfasten your seat belt when AUTO HOLD is active.
- You press the EPB switch when AUTO HOLD is active.

Operating condition(s)

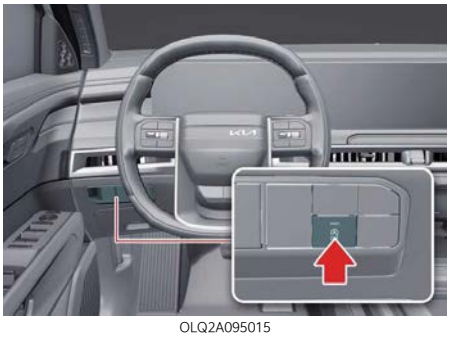
ISG operates under the following conditions:

- The driver's seat belt is fastened.
- The driver side door and the hood are closed.
- The brake vacuum pressure is adequate.
- The 12V battery sensor is activated and the 12V battery is sufficiently charged.
- Outside temperature is not too low or too high.
- You drive your vehicle at a constant speed and then stop.
- The climate control system satisfies the conditions.
- Your vehicle is sufficiently warmed up.
- The incline is gradual.
- The steering wheel is turned less than 180 degrees before your vehicle stops.

TIP

- If the operating conditions are not met, ISG deactivates. The ISG OFF button illuminates and **Auto Stop conditions not met** warning message appears on the instrument cluster.
- If the ISG indicator light or warning message appears continuously, check the operating conditions.

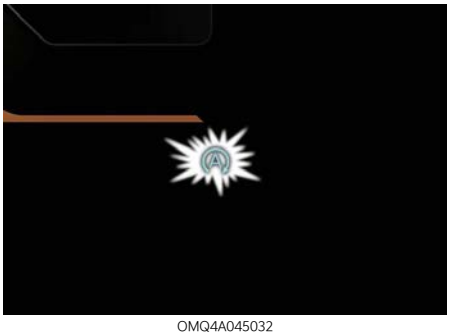
Deactivating the ISG



OLQ2A095015

- To deactivate ISG, press the ISG OFF button. The light on the button illuminates.
- To activate ISG, press the ISG OFF button again. The light on the button disappears.

ISG malfunction indicator



OMQ4A045032

ISG may not operate in the event of an ISG related sensor or system error, and the following will occur:

- The yellow **AUTO STOP** indicator (Ⓐ) blinks for 5 second then remains illuminated on the instrument cluster.
- The light on the ISG OFF button illuminates.

If the ISG system continuously does not work correctly, have your vehicle checked by an authorized Kia dealer.

When the engine is in **Idle STOP** mode, the engine can restart, even if you do not take any ac-

tion. Before you leave your vehicle or do anything in the engine compartment, turn off the vehicle to stop the engine.

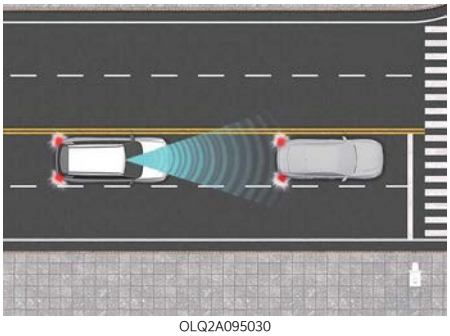
TIP

If you reconnect or replace the Absorbent Glass Matt (AGM) battery, ISG does not operate immediately. Before ISG can activate, the battery sensor must calibrate for approximately 4 hours with the vehicle in OFF position. After the battery sensor calibrates, turn the engine on and off 2 or 3 times.

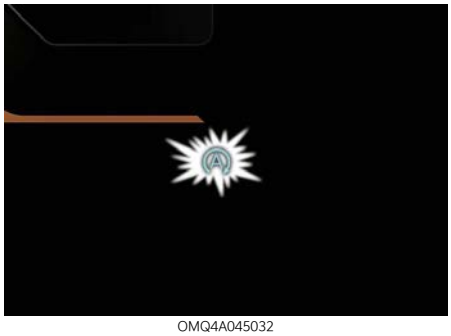
Smart ISG

Early Engine Restart

When ISG automatically stops the engine, Early Engine Restart can automatically restart the engine without driver action when the front view camera detects the vehicle ahead driving away.



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OMQ4A045032

If Early Engine Restart automatically restarts the engine, a message appears on the instrument cluster (if equipped) when you select the **AUTO STOP** page on the instrument cluster.



OCL4M045024N

(1) **Timer**

(2) **Auto Start: vehicle ahead is driving away**



OCL4M045026N

TIP

- Even when the vehicle ahead drives away, Early Engine Restart may not restart the engine due to limitations of the front view camera and its ability to detect the movement of the vehicle ahead.
- For more information on limitations of the front view camera, refer to Limitations of Smart ISG features.
- When ISG turns the engine off, you can restart it at any time (regardless of Early Engine Restart) by releasing the brake pedal.

ISG inhibition at traffic signs (STOP, YIELD, and Roundabout)

Certain traffic signs (STOP, YIELD, and Roundabout) can inhibit and deactivate ISG so that the engine stays ON at those traffic signs.

If your vehicle detects a STOP, YIELD, or Roundabout sign and ISG inhibition deactivates the system, a message appears on the instrument cluster (if equipped) when you select the **AUTO STOP** page.



OCL4M045024N

(1) **Timer**

(2) **Auto Stop paused. STOP sign detected**



OMQ4A045036



OCL4M045024N

(1) **Timer**

(2) **Auto Stop paused. YIELD sign detected**



OCL4M045028N



OCL4M045024N



OCL4M045029N

(1) **Timer**

(2) **Auto Stop paused. Roundabout sign detected**

TIP

- Even when you stop at a STOP, YIELD, or Roundabout sign, ISG inhibition may not deactivate the system due to limitations of the front view camera and its ability to detect traffic signs ahead.
- For more information on limitations of the front view camera, refer to Limitations of Smart ISG features.

TIP

Limitations of Smart ISG features

- Smart ISG features may operate abnormally or unexpectedly under the following circumstances:
  - The detection sensor or its surrounding areas are contaminated or damaged.
  - The temperature around the front-view camera is extremely high or low.
  - The camera lens is obscured by a windshield tint, film, or coating, damaged glass, or objects on the glass such as a sticker or insect.
  - There is moisture or ice on the windshield.
  - You are driving in heavy rain, snow, or thick fog.
  - Glare from the sun obstructs the front view camera's field of view.
  - Light from a street light or oncoming vehicle reflects off of a wet road surface, such as a puddle.

- Your vehicle is being towed.
- Your vehicle's surroundings are excessively bright or dark.
- The brightness changes suddenly (for example, when you enter or exit a tunnel).
- The brightness outside is low, and the headlights are not ON or are not bright.
- Only part of the vehicle is detected.
- The vehicle ahead is a bus, heavy truck, or vehicle with bulky cargo or a trailer.
- The vehicle ahead does not have tail lights or has an unusual tail light configuration.
- The rear of vehicle ahead is small, or the vehicle does not look normal, such as when the vehicle is tilted or overturned.
- The vehicle ahead has ground clearance that is extremely low or high.
- A vehicle, pedestrian, or cyclist suddenly cuts in ahead of you.
- The vehicle ahead is detected late.
- The vehicle ahead is suddenly blocked by an obstacle.
- The vehicle ahead suddenly changes lanes or reduces speed.
- The vehicle ahead is bent out of shape.
- The vehicle ahead steers in the opposite direction of your vehicle to avoid a collision.
- With a vehicle ahead, you change lanes while driving your vehicle at low speed.
- The vehicle ahead is covered in snow.
- You are departing or returning to the lane.
- Your driving is unstable.
- You are driving in a traffic circle and the curvature of the road prevents detection of the vehicle ahead.
- You are continuously driving in a circle.
- The vehicle ahead has an unusual shape.

• The front-view camera may not detect some traffic signs under the following circumstances:
  - The signs are located uphill or downhill away from your vehicle.
  - The signs are located multiple lanes away from your vehicle.
  - The signs are partially or entirely blocked or covered by another vehicle, a tree, or any other obstacle.
  - The signs are damaged or altered by stickers or graffiti.
  - The signs are turned away from your vehicle.

Drive mode integrated control system

The drive mode integrated control system allows the driver to select the drive mode appropriate for the surrounding environment.

DRIVE MODE

You may select the drive mode according to preference or road condition.

Type A



OLQ2A095026

Type B



OLQ2A095016

- Press the DRIVE MODE button. The drive mode changes whenever you press the button.
- DRIVE MODE will change to NORMAL mode when the vehicle is restarted.
- The vehicle switches to ECO mode when the vehicle is restarted with ECO mode.
  The vehicle switches to NORMAL mode when the vehicle is restarted other than ECO mode.

DRIVE MODE	Characteristics
ECO	Helps improve efficiency for eco-friendly driving.
NORMAL	Provides smooth driving and a comfortable ride.
SPORT	Provides sporty riding.
MY DRIVE	Appropriately distributes traction forces and prevents wheel slippage when you drive on snowy or slippery roads.

ECO mode



OLQ2A005107

ECO mode manages the engine and transmission control logic to maximize fuel efficiency.

- When ECO mode is activated, the ECO indicator appears on the instrument cluster.
- When you restart the vehicle, the drive mode remains in ECO mode.

TIP

Fuel efficiency depends on your driving habits and the road conditions.

When ECO mode is activated:

- The accelerator pedal is only moderately engaged and the acceleration response may be slightly reduced.
- Air conditioning performance may be limited.
- The transmission's shift pattern may change.
- The engine noise may get louder.

All of the above conditions are normal when ECO mode is activated.

Limitations of ECO mode operation

If the following conditions occur while ECO mode is operating, the system operation is limited, even though there is no change in the ECO indicator:

- When the coolant temperature is low:

  System performance is temporarily limited until the engine reaches normal operating temperature.
- When driving uphill:

  System power may be reduced on inclines due to restricted engine torque.
- When the accelerator pedal is fully pressed for several seconds:

  System operation is limited when it detects that the driver intends rapid acceleration.

NORMAL mode



OLQ2A005108

NORMAL mode provides smooth driving and comfortable riding.

SPORT mode



OLQ2A005109

SPORT mode manages driving dynamics to enhance driver performance by automatically adjusting the steering effort, engine, and transmission control logic.

- When SPORT mode is activated, the indicator appears on the instrument cluster.
- The drive mode defaults to NORMAL when you restart the engine. If you want to use SPORT mode, press the DRIVE MODE button to select SPORT mode.
- When SPORT mode is activated:
  - Engine speed (rpm) tends to remain raised over a certain amount of time, even after releasing the accelerator pedal.
  - Upshifts are delayed when you accelerate.

TIP

Fuel efficiency may decrease when you drive in SPORT mode.

MY DRIVE mode



OLQ2A005117

In MY DRIVE mode, the driver can select separate modes and combine them on the infotainment system screen.

To set MY DRIVE mode, select **Setup > Vehicle > Drive Mode > MY DRIVE MODE** from the infotainment system.

Adjust	MY DRIVE MODE
Powertrain	ECO/NORMAL/SPORT
Steering	NORMAL/SPORT

TIP

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

All Wheel Drive (AWD) (if equipped)

When you activate all-wheel drive (AWD), it distributes driving forces appropriately to the front and rear wheels. AWD could improve driving performance by maximizing the driving force of the vehicle on severe road conditions, such as steep hills or unpaved or slippery roads.

Use AWD when you require extra traction (for example, when driving on slippery, muddy, wet, or snowy roads).

If the AWD system detects a need for all wheel drive, the vehicle's driving power is automatically distributed to all 4 wheels.

WARNING

For X-Pro (if equipped)

Before driving off-road, carefully inspect the terrain and check the weather and surrounding environmental conditions. Use extra caution when driving on steep slopes or uneven surfaces, and always be mindful of potential obstacles or hazards.

When driving, stay alert to your surroundings and monitor the terrain as needed. Kia is not responsible for any vehicle damage that occurs during off-road driving.

WARNING

Off-road driving

Although this vehicle can operate effectively off-road, it is designed primarily for on road driving. This vehicle is not designed to drive in challenging off-road conditions. Driving in conditions that exceed the vehicle's intended design or the driver's experience level may result in serious injury or death.

NOTE

If the AWD warning light ( ) remains illuminated on the instrument cluster, your vehicle may have an AWD system malfunction. When the AWD warning light ( ) appears, have your vehicle checked by an authorized Kia dealer.

WARNING

To reduce the risk of serious injury or death:

- Do not drive in conditions that exceed your vehicle's intended design, such as challenging off-road conditions.
- Avoid high speeds when turning.
- Do not make quick steering wheel movements (such as sharp lane changes or fast, sharp turns).
- Losing control of your vehicle at high speeds greatly increases the risk of a rollover.
- Loss of control often occurs when two or more wheels leave the road and the driver overcorrects to reenter the road. If your vehicle leaves the road, do not steer sharply. Instead, slow down before you reenter the road.

TERRAIN MODE

TERRAIN MODE helps the vehicle maintain its best driving performance by controlling all 4 wheels, the engine, the transmission, and vehicle braking based on current road conditions (such as snow, mud, sand, and so on).

Advantages of TERRAIN MODE

- Improved stability when driving straight.
- Improved driving performance around curves.
- Enhanced stability in severe conditions, such as on wet and sandy roads.

Switching from/to TERRAIN MODE



OLQ2A095008

You can switch from DRIVE MODE to TERRAIN MODE by pressing TERRAIN MODE mode button and then select SNOW, MUD, or SAND mode by pressing the TERRAIN MODE button.
If you press the DRIVE MODE mode button, the vehicle will go back to DRIVE MODE.

TIP

Even though you turned off the vehicle in TERRAIN MODE, DRIVE MODE will be set when you restart the vehicle.

TERRAIN MODE selection

* SNOW↔MUD↔SAND

TERRAIN MODE	Description
-	• DRIVE MODE is used when driving on roads in normal conditions, roads in urban areas, and on highways. • All wheels are in operation when a vehicle travels at a constant speed. Required tractions applying on front and rear wheels vary depending on road driving conditions and driving conditions, which will be automatically controlled by the computing system. • When the instrument cluster's DRIVE MODE display mode is selected, the cluster displays the status of how four wheels' traction forces are distributed.
SNOW	SNOW mode is used to appropriately distribute the vehicle's traction forces and prevent wheel slippage when driving on snowy or slippery road.
MUD	MUD mode is used to ensure safe driving by appropriately distributing the vehicle's traction forces when driving on muddy, unpaved or rough roads.
SAND	SAND mode is used to ensure safe driving by appropriately distributing the vehicle's traction forces when driving on sandy, graveled or unpaved off-roads.

NOTE

- Maintain DRIVE MODE when driving on roads in normal conditions. Driving in TERRAIN MODE on normal roads may damage the AWD system and cause mechanical vibration or noise.
- When driving (especially when cornering) under normal road conditions in TERRAIN MODE, a driver may find minor mechanical vibration or noise, which is extremely normal phenomenon, not a malfunction. When TERRAIN MODE is released, such noise or vibration will be immediately gone. When you turn off TERRAIN MODE, it can lead to little shocks but this is a normal phenomenon that lasts until the traction forces on the front and rear wheels of the vehicle are released.

Safe AWD operation

Before driving

- You must learn how to turn in an AWD vehicle. Do not rely on your experience with conventional Front Wheel Drive (FWD) vehicles when you turn your vehicle in AWD mode. You must drive more slowly when using AWD.
- Make sure all passengers are wearing seat belts.
- Sit upright and closer to the steering wheel than usual. Adjust the steering wheel to a position you find comfortable for driving.
- Always hold the steering wheel firmly when you drive on unpaved roads.

⚠ WARNING

AWD

- Reduce your speed when turning. AWD vehicles have a higher center of gravity than conventional FWD vehicles, and are more likely to roll over when you turn too quickly.
- Do not make quick steering wheel movements (such as sharp lane changes or fast, sharp turns).
- The risk of a rollover greatly increases if you lose control of your vehicle at highway speeds.
- In a collision, an unbelted person is significantly more likely to die than a person wearing a seat belt.
- Loss of control often occurs when 2 or more wheels leave the road and the driver overcorrects to reenter the road. If your vehicle leaves the road, do not steer sharply. Instead, slow down before you reenter the road.

⚠ WARNING

Steering wheel



OLQ2A095027

When you are drive on an unpaved road, do not grab the inside of the steering wheel. If you do so, a sudden steering maneuver or steering wheel rebound caused by impact with objects on the ground may hurt your arm, and you could lose control of the steering wheel.

ⓘ NOTE

AWD

- Do not drive in water higher than the bottom of your vehicle.
- Check the condition of your brakes after you drive through mud or water. To do so, engage the brake pedal several times (as you drive slowly) until you feel normal braking forces return.
- If you drive in off-road conditions such as sand, mud, or water, shorten your scheduled maintenance interval (refer to "Scheduled maintenance service" on page 698). Always wash your vehicle thoroughly, especially the underbody, after driving off-road.
- The condition of the tires greatly affects AWD vehicle performance because driving torque is always applied to all four wheels. Be sure to equip your vehicle with four tires of the same size and type.

- An AWD vehicle cannot be towed by an ordinary tow truck. If your vehicle must be towed, make sure a flatbed truck is used.
- Compared to normal road conditions, on road or off-road conditions that necessitate using AWD expose your vehicle to extreme stress. When using AWD, slow down and be ready for changes in the composition and traction of the road surface. If you have any doubt about the safety of road conditions, stop driving and consider the best way to proceed.

Driving on snow-covered or icy roads

- Start off slowly by engaging the accelerator pedal gently.
- Use snow tires or tire chains.
- Keep sufficient distance between your vehicle and the vehicle ahead of you.
- Using the engine brake helps with steering when you drive downhill. However, it is difficult to adjust the vehicle while coasting, so avoid using the foot brake as much as possible.
- Avoid speeding, rapid acceleration, sudden brake engagement, and sharp turns to prevent skidding.
- If the vehicle stops while you are driving uphill, it is difficult to start it again. Keep your distance from other vehicles and drive slowly.

NOTE

Mud or snow

If a front or rear wheel begins to spin in mud or snow, you can sometimes drive your vehicle out by further engaging the accelerator pedal. However, avoid continuously revving the engine at a high rpm, which could damage your vehicle's AWD system.

Driving in sand or mud

- Maintain slow, constant speed and engage the accelerator pedal slowly to ensure safe driving and prevent the wheels from slipping.
- Maintain sufficient following distance from the vehicle ahead.
- Reduce speed and always check road conditions.
- To prevent getting stuck, avoid speeding, rapid acceleration, sudden braking, and sharp turns.
- Your vehicle's wheels may not operate when stuck in snow, sand or mud. This is to protect the transmission and is not a malfunction.

NOTE

Forcibly moving your vehicle to get it out of mud or sand can cause:

- Damage to your vehicle
- Damage to your tires
- The engine to overheat
- Damage to or breakdown of your transmission, differential, or AWD systems

If the wheels slip excessively after you enter a sandy or muddy road, your vehicle may fall into the sand or mud. In this case, place a stone or tree branch under the tire, then try to pull out the vehicle or get it unstuck by repeatedly moving back and forth.

Driving up or down hills

- When you drive up or down a hill, drive as straight as possible. When you drive up or down a steep hill, be extremely cautious of vehicle rollover caused by the grade, terrain, water, or mud.

WARNING

Hills

Traversing steep hills can be extremely dangerous due to slight changes in the wheel angle that can destabilize your vehicle. Your vehicle can become unstable if it stops its forward motion (even if your vehicle maintains stability under power). Your vehicle may roll over without warning or enough time for you to correct a mistake that could cause serious injury or death.

Driving through water

- Avoid driving in deep, standing water.
- If you must drive in water, stop your vehicle, set it to TERRAIN MODE, and drive below 5 mph (8 km/h).
- Do not shift the gear while driving in water.

WARNING

Driving through water

When you drive through water, drive slowly. If you drive through water too fast, the water can enter the engine compartment, get the ignition system wet, and cause your vehicle to suddenly stop. If this happens when your vehicle is in a tilted position, your vehicle may roll over.

Additional driving conditions

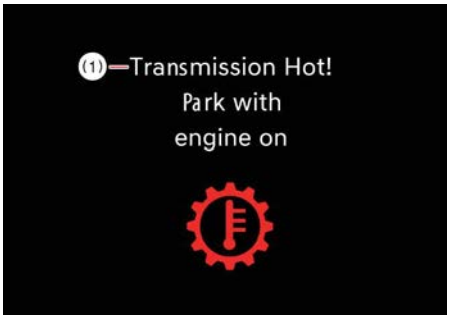
- Become familiar with the off-road conditions before driving.
- Always pay attention when driving off-road and avoid dangerous areas.
- Drive slowly when driving in heavy wind.
- Reduce the vehicle's speed when turning. The center of gravity of 4WD vehicles is higher than conventional 2WD vehicles, making them more likely to roll over when you rapidly turn around corners.
- Always hold the steering wheel firmly when driving off-road.

WARNING

Wind danger

If you drive in strong wind, your vehicle's higher center of gravity lessens steering control, so you must drive more slowly.

Transmission overheated



OCL4M035100N

(1) **Transmission Hot! Park with engine on**



OCL4M035102N

(1) **Trans cooled. Resume driving.**

- The transmission can overheat when you drive on extremely muddy or sandy roads.
- When the transmission overheats, safe protection mode activates, and **Transmission Hot! Park with engine on** warning message appears on the instrument cluster and an audible warning sounds.
- Pull over to a safe location, stop your vehicle with the engine running, engage the brake pedal, shift to P (Park), and allow the transmission to cool.
- Driving conditions may worsen if you ignore this warning. You may experience abrupt shifts, frequent shifts, and jerkiness. To return to normal driving conditions, you should park your vehicle and allow the transmission to cool for a few minutes (with the engine on) before driving again.
- You can continue to drive your vehicle when **Trans cooled. Resume driving.** message appears.

If any warning message on the instrument cluster continues to blink, have your vehicle checked by an authorized Kia dealer.

AWD precautions

Tires

Always pay attention to tires for AWD vehicles.

AWD applies driving force to all four wheels, which means the condition of the tires greatly af-

fects driving performance:

- When replacing tires, be sure all 4 tires are of the same size, type, tread, brand, and load-carrying capacity. Do not equip your vehicle with tires of a different size or type than what was originally installed on your vehicle. This can affect the safety and performance of your vehicle, which could lead to steering failure or rollover and cause serious injury.
- Rotate the front and rear tire positions every 8,000 miles (13,000 km).
- When it is cold outside, you should check each tire monthly and maintain the inflation pressure recommended on your Kia placard or tire inflation pressure label.
- Install chains on all four tires of your AWD vehicle, and keep your travel distance as short as possible to prevent damage to the AWD system. For more information, refer to "Winter driving" on page 433.

Towing

AWD vehicle



OLQ2A115024

FWD vehicle



OLQ2A115027

You must tow AWD vehicles using a wheel lift and dollies or flatbed equipment with all the wheels off the ground. For more information, refer to "Towing" on page 683.

Vehicle inspection

- When the vehicle is on a lift, do not operate the front and rear wheels separately. Operate all four wheels together.
- Never apply the parking brake while running the vehicle on a lift, as this might damage the AWD system.

WARNING

Your vehicle is equipped with tires that make handling and riding in your vehicle safer. Do not use tires or wheels that are different in size and type from the original ones. This can affect the safety and performance of your vehicle, which could lead to steering failure or a rollover and result in serious injury. When replacing the tires, be sure that all four tires and wheels are the same size, type, tread, and brand and have the same load-carrying capacity.

WARNING

Jacked vehicle

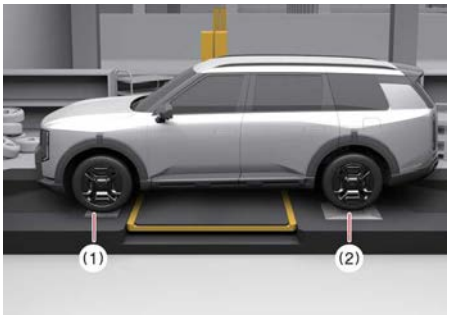
While an AWD vehicle is being raised on a jack, never start the engine or cause the tires to rotate. If rotating tires touch the ground, your vehicle could move the jack and jump forward.

TIP

An AWD vehicle cannot be towed with sling-type equipment. Use a wheel lift or flatbed equipment.

Dynamometer testing

AWD vehicles must be tested with a special 4-wheel chassis dynamometer.
If you must use a 2WD roll tester, perform the following procedure:



(1) Roll tester
(2) Temporary free roller

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1. Check the recommended tire pressure for your vehicle.
2. Place the driven wheels on the roll tester (1) for a speedometer test.
3. Release the parking brake.
4. Place the non-driven wheels on the temporary free roller (2).

WARNING

Dynamometer testing

- Do not use tires and wheels of a different size and type from the ones originally installed on your vehicle. Doing so can affect the safety and performance of your vehicle, leading to steering failure or a rollover and causing serious injury.
- Never start or run AWD vehicle while it is raised on a jack. The vehicle can slip or roll off the jack, causing serious injury or death to you or those nearby.
- Keep away from the front of the vehicle while it is in gear on the dynamometer. The vehicle can jump forward and cause serious injury or death.

TIP

Never apply the parking brake while performing these tests.

Active Air Flap (AAF) (if equipped)

Active Air Flap (AAF) controls the air flap below the front bumper to cool vehicle parts and improve fuel economy.



OLQ2A095017

Active Air Flap malfunction



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(1) **Check Active Air Flap system**

The active air flap system may not operate normally if the air flap is temporarily opened due to foreign factors or if the controller is contaminated by snow or rain, etc.

When the message appears on the display, stop the vehicle in a safe place and check the status of the air flap. Clear any foreign material as necessary.

Start the vehicle after addressing any issue and waiting 10 minutes. If the message remains up, have your vehicle checked by an authorized Kia dealer.

NOTE

- Even if the warning message is not displayed, if the air flaps are visually asymmetrical (vehicles with exposed flap applied), turn off the vehicle and restart after about 10 minutes to inspect the air flap.
- The active air flap system is actuated by motors. Do not disturb actuation or apply force excessively. It may cause failure.

NOTE

Active air flap system could activated regardless of the vehicle condition.(Parking, driving, charging, etc.)

TOW mode

When towing a trailer, select TOW mode to adjust the shift pattern for heavy loads and ensure smoother driving.



OLQ2A095018

Press TOW mode button on the instrument panel to activate the TOW mode function.

The vehicle will adjust the power output, transmission, braking, and ESC to assist towing. TOW mode indicator will be shown on the instrument cluster.

In P (Park), you can set the weight of the trailer you want to tow through the **Trailer** menu from the infotainment system screen.

TIP

When driving in TOW mode, it is not possible to switch between DRIVE MODE and TERRAIN MODE.

Economical operation

Your vehicle's fuel economy mainly depends on how, where, and when you drive.
Each of these factors affect your kilometers per liter (miles per gallon) of fuel. To operate your vehicle as economically as possible and save money on both fuel and repairs, follow these driving suggestions:

- Drive smoothly and accelerate at a moderate rate. Do not make "jackrabbit" starts or full-throttle shifts. Maintain a steady cruising speed. Do not race between stoplights. Follow the speed of traffic so you do not have to change speeds unnecessarily. Avoid heavy traffic whenever possible. Always maintain a safe braking and following distance from the vehicle ahead (this also reduces break wear).
- Drive at a moderate speed. The faster you drive, the more fuel your vehicle uses. Driving at a moderate speed, especially on the highway, is one of the most effective ways to reduce fuel consumption.
- Take care of your tires. Keep them inflated to the recommended pressure. Incorrect inflation results in unnecessary tire wear. Check tire pressure at least once a month.
- Be sure the wheels are correctly aligned. Hitting curbs or driving too fast over irregular surfaces can result in improper alignment. Poor alignment causes faster tire wear, and may result in other problems and greater fuel consumption.
- Keep your vehicle in good condition. For better fuel economy and reduced maintenance costs, maintain your vehicle in accordance with the maintenance schedule in "Scheduled maintenance service" on page 698. If you drive your vehicle in severe conditions, more frequent maintenance is required. For more information, refer to "Scheduled maintenance service" on page 698.
- Travel lightly. Don't carry unnecessary weight in your vehicle. Weight reduces fuel economy.
- Don't let the engine idle longer than necessary. If you are waiting (and not in traffic), turn off your engine and restart only when you're ready to go.
- Don't lug or over-rev the engine. Lugging is driving too slowly in too high of a gear, which results in the engine bucking. If this happens, shift to a lower gear. Over-revving is racing the engine beyond its safe limit. Avoid over-revving by shifting the gear at the recommended speeds.
- Open windows at high speeds can reduce fuel economy.
- Fuel economy lessens in crosswinds and headwinds. To offset the decreased fuel economy, slow down when driving in these conditions.

Keeping a vehicle in good operating condition is important to both fuel economy and safety. Therefore, have your vehicle checked by an authorized Kia dealer.

WARNING

Turning the vehicle off when in motion

Never turn the vehicle off to coast down hills, or any time your vehicle is in motion. The power steering and power brakes will not function properly if the vehicle is not running. In addition, turning the vehicle off while driving could engage the steering wheel lock and result in loss of steering. Keep the vehicle on and downshift to an appropriate gear for engine braking.

Special driving conditions

In poor weather or road conditions, you should drive even more carefully than usual.

Hazardous driving conditions

When you encounter water, snow, ice, mud, sand, or similar hazards on the road, follow these suggestions:

- Drive cautiously and allow extra distance for braking.
- Avoid sudden braking or steering.
- Do not pump the brake pedal on a vehicle equipped with ABS.
- If you are stalled in snow, mud, or sand, shift to 2nd gear and accelerate slowly to avoid spinning the drive wheels.
- Use sand, rock salt, or another nonslip material under the drive wheels to provide traction when you are stalled in ice, snow, or mud.

Reducing the risk of a rollover

This multi-purpose passenger vehicle is defined as a Sports Utility Vehicle (SUV). Utility vehicles can have a higher rollover rate than other types of vehicles. SUVs generally have higher ground clearance and sometimes a narrower track width to make them capable of performing in a wide variety of offroad applications.

Specific design characteristics can give SUVs a higher center of gravity than conventional passenger vehicles. An advantage of the higher ground clearance is a better view of the road, which allows you to anticipate problems.

SUVs are not designed for cornering at the same speeds as conventional passenger vehicles, any more than low-slung sports vehicles can perform satisfactorily in off-road conditions. Due to this risk, you and your passengers are strongly recommended to buckle your seat belts.

In a rollover crash, an unbelted person is significantly more likely to die than a person wearing a seat belt. To reduce the risk of a rollover while you are driving:

- If possible, avoid sharp turns or abrupt maneuvers.
- Do not load your roof rack with heavy cargo.
- Never modify your vehicle in any way.

⚠ WARNING

Rollover

As with other SUVs, failure to operate this vehicle correctly may result in a loss of control, an accident, or a rollover.

- Utility vehicles have a significantly higher rollover rate than other types of vehicles.
- Specific design characteristics (such a higher ground clearance, narrower track, and so on) give this vehicle a higher center of gravity than ordinary vehicles.
- An SUV is not designed for turning at the same speeds as conventional vehicles.
- Avoid sharp turns or abrupt maneuvers.
- In a rollover crash, an unbelted person is significantly more likely to die than a person wearing a seat belt. Make sure everyone in your vehicle is properly buckled up.

WARNING

Your vehicle is equipped with tires that make handling and riding in your vehicle safer. Do not use tires or wheels that are different in size and type from the original ones. This can affect the safety and performance of your vehicle, which could lead to steering failure or a rollover and result in serious injury. When replacing the tires, be sure that all 4 tires and wheels are the same size, type, tread, and brand and have the same load-carrying capacity.

Rocking your vehicle

If it is necessary to rock your vehicle to free it from snow, ice, sand, or mud, first turn the steering wheel right and left to clear the area around your drive wheels. Then shift the gear back and forth between R (Reverse) and any forward gear.

Do not rev the engine or spin the wheels. If you are still stuck after a few tries, have your vehicle towed out to avoid overheating the engine and causing possible damage to the transmission.

WARNING

Sudden vehicle movement

Do not attempt to rock your vehicle if people or objects are nearby. Your vehicle may suddenly move forward or backward as it becomes unstuck.

CAUTION

Vehicle rocking

Prolonged rocking may cause overheating of the vehicle, transmission damage or failure, and tire damage.

WARNING

Spinning tires

Do not spin the wheels, especially at speeds above 35 mph (56 km/h). Spinning the wheels at high speeds when your vehicle is stationary could overheat and damage the tires. The rotating wheels may detach and injure bystanders.

TIP

Turn the Electronic Stability Control (ESC) function off before rocking your vehicle.

Smooth turning

Avoid braking or shifting gears while turning, especially when roads are wet. Ideally, you should always turn with gentle acceleration. Following these suggestions minimizes wear on your tires.

Driving at night

Because night driving is more hazardous than driving in the daylight, follow these important tips:

- Slow down and keep more distance between you and other vehicles, as it may be more difficult to see at night, especially in areas without any street lights.
- Adjust your mirrors to reduce the glare from other drivers' headlights.

- Keep your headlamps clean and properly aimed at vehicles that are not equipped with the automatic headlight aiming feature. Dirty or improperly aimed headlamps will make it much more difficult to see at night.
- Avoid staring directly at the headlights of oncoming vehicles. You could be temporarily blinded, and it will take several seconds for your eyes to readjust to the darkness.

Driving in the rain

Rain and wet roads can make driving dangerous, especially if you are unprepared for the slick pavement.

When driving in rain, consider the following:

- A heavy rainfall makes it harder to see and increases the required stopping distance for your vehicle, so slow down.
- Keep your windshield wiping equipment in good shape. Replace your windshield wiper blades when they show signs of streaking or miss areas of the windshield.
- If your tires are not in good condition, stopping quickly on wet pavement can cause you to skid and possibly lead to an accident. Be sure your tires are in good shape.
- Turn on your headlights to make it easier for others to see you.
- Driving too fast through large puddles can affect your brakes. If you must drive through puddles, try to drive through them slowly.
- If you believe your brakes are wet, lightly engage the brake pedal while driving until braking operation returns to normal.

Hydroplaning

If the road is wet enough and you are driving fast enough, your vehicle may have little or no contact with the road surface and ride on the water. The best advice is to SLOW DOWN when the road is wet.

The risk of hydroplaning increases as the depth of tire tread decreases. Refer to "Tires and wheels" on page 728.

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 after driving through water because it may affect brake performance.

After driving through water, dry the brakes by gently applying them several times while your vehicle is moving slowly.

Highway driving

Tires

Adjust the tire inflation pressures according to the specification. Low tire inflation pressures result in overheating and possible failure of the tires.

Avoid driving with worn or damaged tires, which may result in reduced traction or tire failure.

Never exceed the maximum tire inflation pressure shown on the tires.

WARNING

Underinflated or overinflated tires

Always check the tires for proper inflation before driving. Underinflated or overinflated tires can cause poor handling, loss of vehicle control, and sudden tire failure, leading to accidents, injuries, and death. For proper tire pressures, refer to "Tires and wheels" on page 29.

WARNING

Tire tread

Always check the tire tread before driving your vehicle. Worn out tires can result in loss of control of the vehicle. Replace worn out tires as soon as possible. For further information and tread limits, refer to "Tires and wheels" on page 728.

Fuel, engine coolant, and engine oil

High speed travel consumes more fuel than driving in urban areas. Do not forget to check both the engine coolant and engine oil.

Drive belt

A loose or damaged drive belt may cause the engine to overheat.

Winter driving

Severe winter weather can lead to increased tire wear and additional issues. To minimize issues related to winter driving, you should follow the suggestions in these sections:

Snowy or icy conditions

To drive your vehicle in deep snow, you may need to use snow tires or to install tire chains on your tires.

If you need snow tires, select tires of the same size and type as the original ones. Failure to do so may adversely affect the safety and handling of your vehicle.

Speeding, rapid acceleration, sudden brake engagement, and sharp turns are potentially very hazardous practices in snowy or icy conditions.

When you decelerate, use engine braking fully. Sudden brake engagement on snowy or icy roads may cause skidding. Keep a sufficient distance between your vehicle and the vehicle ahead. Engage the brake pedal gently.

Installing tire chains on the tires allows you to drive with greater force, but does not prevent side skids.

NOTE

Tire chains are not legal in all states. Check state laws before using tire chains.

Snow tires

If you install snow tires on your vehicle, make sure they are radial tires of the same size and load bearing range as the original ones. Install snow tires on all 4 wheels to balance your vehicle's handling in all weather conditions. Keep in mind that snow tires may provide lower traction than your original tires on dry roads. Drive cautiously even when the roads are clear. Check with the tire dealer for maximum speed recommendations.

Do not install studded tires without first checking state, local, and municipal regulations for possible restrictions against their use.

WARNING

Snow tire size

Snow tires should be the same size and type as your original ones. Otherwise, your vehicle's safety and handling may be adversely affected.

Tire chains

Fabric type



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Because radial tires have thinner sidewalls, they can be damaged if you install certain types of tire chains on them. Therefore, snow tires are recommended instead of tire chains. Do not mount tire chains on vehicles equipped with aluminum wheels, as they may damage the wheels. If you must use tire chains, use:

- Fabric-type chains for 18, 20, and 21 inch tires.

Your warranty does not cover damage to your vehicle caused by improper tire chain use.

When using tire chains, attach them to the drive wheels as follows:

FWD or AWD: Front Wheel Drive

- FWD vehicles use the front wheels for power, so tire chains must be installed on the front tires.
- On AWD vehicles, you must install tire chains on the front tires only. Minimize your driving distance to prevent damage to the AWD system.
- Drive slowly after installing tire chains. If you hear noise caused by the chains making contact with your vehicle, slow down until the noise stops. To prevent damage, remove the chains as soon as you begin driving on cleared roads.
- Wrong sized or improperly installed tire chains can damage your vehicle's brake lines, suspension, body, and wheels. When installing tire chains, follow the manufacturer's instructions and install them as tightly as possible. Drive slowly (below 20 mph (30 km/h)) with tire chains installed.

NOTE

- Make sure the tire chains are the correct size and type for your tires. Incorrect tire chains can cause damage to your vehicle's body and suspension, which may not be covered by your vehicle manufacturer warranty. The tire chain connecting hooks may be damaged from contacting vehicle components, causing the chains to come loose from the tires.
- Always check the tire chains for proper installation after driving approximately 0.3-0.6 miles (0.5-1 km). Retighten or reinstall the tire chains if they are loose.
- You must use fabric-type chains on 18 inch (235/65 R18), 20 inch (255/50 R20) and 21 inch (265/45 R21) tires.

Use high quality ethylene glycol coolant

Your vehicle is equipped with high quality ethylene glycol coolant. This 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 schedule in the Maintenance section.
Before winter, have your coolant tested to ensure that its freezing point is sufficient for the anticipated temperatures.

Check 12V battery and cables

Winter puts additional burdens on the 12V battery system. Visually inspect the 12V battery and cables as described in the Maintenance section. Have your vehicle checked by an authorized Kia dealer to inspect your battery to check the level of charge.

Change to “winter weight” oil if necessary

In some climates, it is recommended that you use a lower viscosity “winter weight” oil during cold weather. See "Recommended lubricants and capacities" on page 30. If you aren’t sure what oil weight you should use, consult an authorized Kia dealer.

Check spark plugs and ignition system

Inspect your spark plugs as described in "Scheduled maintenance service" on page 698, and replace them if necessary. Check all ignition wiring and components to make sure they are not cracked, worn, or damaged in any way.

To keep locks from freezing

To keep the locks from freezing, squirt an approved de-icer fluid or glycerin into the key opening. If a lock is covered with ice, squirt an approved de-icing fluid onto the ice to remove it. If the lock is frozen internally, you may be able to thaw it out using a heated key. Handle the heated key with care to avoid injury.

Use approved window washer anti-freeze

To keep the water in the window washer system from freezing, add an approved window washer anti-freeze solution according to the instructions on the container. Window washer anti-freeze is available from authorized Kia dealers and most auto parts stores. Do not use engine coolant or other types of anti-freeze, as these may damage the paint finish.

Don’t let your parking brake freeze

Under some conditions, your parking brake can freeze while it is applied. 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. If there is a risk the parking brake may freeze, temporarily apply it with the vehicle in P (Park). Block the rear wheels in advance so that your vehicle will not roll. Then release the parking brake.

Don’t let ice and snow accumulate under your vehicle

Under some conditions, ice and snow can build up under the fenders and interfere with steering. When driving in severe winter conditions where this may happen, periodically check under your vehicle to make sure that ice and snow do not obstruct the movement of the drive wheels and steering components.

Carry emergency equipment

Depending on the severity of the weather, you should carry appropriate emergency equipment. Some of these items include tire chains, tow straps or chains, a flashlight, emergency flares, sand, a shovel, jumper cables, a window scraper, gloves, a ground cloth, coveralls, a blanket, and so on.

Do not place objects or materials in the engine compartment

Putting objects or materials in the engine compartment may prevent the engine from cooling and cause engine failure or combustion. Your warranty does not cover such damage.

Drive your vehicle when water vapor condenses and accumulates inside the exhaust pipes

When your vehicle is stopped for a long time with the engine running during the winter, water vapor may condense and accumulate inside the exhaust pipes.
Water in the exhaust pipes may cause noise, but drains when you drive at medium or high speeds.

Trailer towing (if equipped)

If you are considering towing a trailer with your vehicle, you should first check with your state's Department of Motor Vehicles (DMV) to determine their legal requirements.

Since laws vary, the requirements for towing trailers, cars, or other types of vehicles or apparatus may differ. Ask an authorized Kia dealer.

WARNING

Towing a trailer

If you drive improperly or don't use the correct equipment, you can lose control of your vehicle when you tow a trailer. For example, if the trailer is too heavy, the brakes may not work well (or at all). You and your passengers could be seriously or fatally injured. Only tow a trailer if you have followed all the steps in this section.

WARNING

Weight limits

Before towing, make sure the total trailer weight, gross combination weight, gross vehicle weight, gross axle weight, and trailer tongue load are all within the limits.

NOTE

Towing a trailer improperly can damage your vehicle and result in costly repairs not covered by your warranty. To tow a trailer correctly, follow the advice in this section.

Your vehicle can tow a trailer. To identify the trailer capacity for your vehicle, refer to "If you decide to tow a trailer" on page 446.

Remember that towing a trailer is different than driving your vehicle by itself. Towing a trailer means changes in handling, durability, and fuel economy. Towing a trailer successfully and safely requires proper use of the correct equipment.

This section contains many time-tested, important tips and safety rules for towing a trailer. Read this section carefully before you tow a trailer.

Load-pulling components, such as the engine, transmission, wheel assemblies, and tires, are forced to work harder against the load of the added weight of a trailer. The engine is required to operate at relatively higher speeds under greater loads. This additional burden generates extra heat. The trailer also adds considerable wind resistance, which increases the load-pulling requirements.

Hitches (if equipped)



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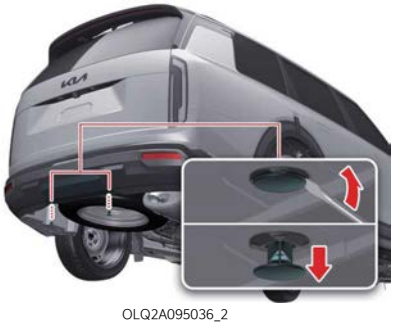
If your vehicle is equipped with a hitch cover, remove it before using the hitch receiver. The cover is located at the center of the lower rear bumper.

To remove the hitch cover:

1. Remove the two clips at the bottom of the hitch cover using a screwdriver.



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2. Pull the lower edge of the hitch cover toward you to release the two side claws. Then, tilt the cover about 30 degrees and pull it downward to remove it.

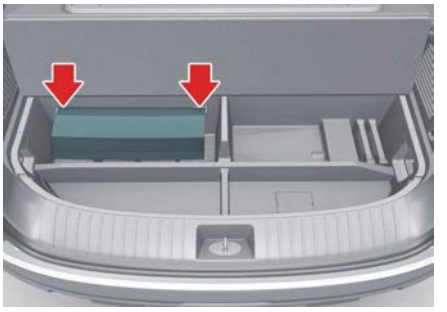


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OLQ2A095040

3. Keep the removed cover and clips in a safe place. The cover and clips can be stored in the luggage tray area.



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4. To reinstall the cover after towing, follow the above procedure in reverse order.

WARNING

When reinstalling the tow hitch cover, use the appropriate fasteners and ensure it is securely installed. If the tow hitch cover is not properly secured, it may detach from the vehicle and create a road hazard.

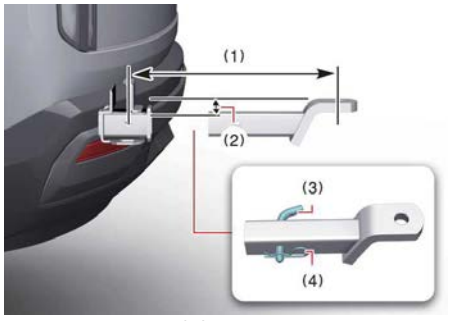
NOTE

- When reinstalling the hitch cover, make sure it is securely fastened with the original clips.
- The bumpers on your vehicle are not intended for hitches. Do not attach rental hitches or other bumper-type hitches to them. Use only a frame mounted hitch that does not attach to the bumper.
- Any part of the rear license plate or lighting devices of the vehicle must not be obscured by the mechanical coupling device. If the rear number plate and/or lighting devices can be obscured partially by any part of the mechanical coupling device, mechanical coupling devices that cannot be easily removed or repositioned without use of any tools, except an easily operated (an effort not exceeding 15 lbf.ft (20 Nm) release key that is supplied by the manufacturer of the coupling device, are not permitted for use. Note that the mechanical coupling device that is fitted and not used must always be removed or repositioned if the rear number plate and/or rear lighting devices are obscured by any part of the mechanical coupling device.

TIP

- The tow hitch and the hitch cover can be stored in the luggage tray.
- A Kia trailer hitch accessory is available at an authorized Kia dealer.
- Spare fasteners are included in the license plate bracket package.

Ball mount (if equipped)



OLQ2A095039

(1) 9.0 inches (228.6 mm)
(2) 2.0 inches (50.8 mm)
(3) Pin
(4) Clip

Ball mount installation

1. Loosen the two screws inside the vehicle body, and open the cover by pulling its bottom. Keep the cover in a safe location.
2. Slide the ball mount in toward the hitch assembly.
3. Align the holes on the ball mount with the holes on the hitch assembly.
4. Push the pin through the hitch assembly and ball mount.
5. Insert the clip into the hole at the end of the pin.

Ball mount removal

1. Remove the clip from the pin, and slide the pin out of the ball mount and hitch assembly.
2. Remove the ball mount by pulling it toward the rear of the hitch assembly.
3. Attach the cover back to the hitch housing, and keep the ball mount in a safe location.

WARNING

- Remove the ball mount when not towing.
- Choose a proper ball mount based on the trailer weight.
- When towing a trailer, make sure to check the recommended tire pressure.

Electrical connection (if equipped)



OLQ2A095020

- Yellow: Left turn signal/Stop light
- White: (-) ground terminal
- Blue: Electric brakes
- Green: Right turn signal/Stop light
- Orange: (+) battery terminal
- Brown: Tail light
- Gray: Reverse light

The trailer tow package supports a trailer plug that allows use of electricity without an adapter, as this package is equipped with an electrical connector near the trailer hitch assembly.

There may be loss of trailer lights during towing if there is a problem with the trailer wiring or if the lights connected to the trailer output consume excessive electrical power. If this happens, a red trailer mode icon appears. Fix the wiring problem or reduce the number of lights connected to the trailer output, and then turn the trailer mode off and on again to resolve the issue.

⚠ WARNING

- It is the driver's responsibility to check before trailer towing that all electrical connections are working, all trailer lights are working as expected, and the braking system is fully operational. The vehicle does not detect an incorrect electrical connection. All electrical connections must be manually inspected. Failure to do so may result in accidents, property damage, injury, or death.
- Use only electrical connectors designed by Kia. Never attempt to manually splice or connect the trailer's electrical wiring using a method other than the method specified by Kia. Doing so may damage the vehicle's electrical systems, causing them to malfunction.
- If moisture enters the trailer connector (socket), serious malfunctions, such as poor electrical contact, corrosion, or short circuit, may occur. To ensure the safety and longevity of the product, be sure to follow these instructions:
  - Completely close the connector cover when the product is not in use.
  - If any foreign matter (such as dust or mud) or moisture is found inside the connector or on the terminal, immediately clean and dry it completely before use.
  - Visually inspect the connector-installed area and the terminal regularly to check for any abnormalities, such as discoloration, corrosion, or moisture condensation.
  - If moisture or corrosion is found, replace the connector. Reusing the connector may result in a safety hazard.
  - Damage caused by moisture may not be covered under the product warranty.

ⓘ NOTE

Always check that the trailer's electrical cables are not touching the ground or dragging on the ground and that there is enough slack in the cables to allow for rotation.

Trailer Control Module (TCM)



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The trailer control module connector can be installed by opening the rear bumper cover.

- After the trailer control connector is connected to the vehicle, from the point when the brake pedal is pressed once for the first time or when the vehicle is driven at the speed of 9 mph (15 km/h) or more, the trailer connection is detected and the vehicle switches to the trailer mode. After the trailer is detected, the trailer-mounted lights, including the tail lights, stop lights, rear turn signal lights and reverse lights, operate as same as the lights on the vehicle.
- If lights on the trailer malfunction, a warning message advising to check the lights appears on the cluster. In this case, inspection of the lights on the trailer is required. If it appears from inspection that there is no problem with the lights on the trailer, visit a service center and have the trailer control connector inspected and/or replaced.
- When the trailer control connector is installed, you can view the information, such as the trailer mode setting status, the mileage information, and the checklist to do in the event of trailer installation or removal, at **Trailer** menu on the infotainment system.
- If the TCM connector is installed and a trailer is recognized as connected, some features of the driver assistance system may be limited. Check the availability of the system in the vehicle before use.
  - **Infotainment system type**

    When the TCM connector is connected, or when the **Trailer Mode** or **Carrier Mode** is enabled using the **Trailer Mode** on the infotainment system, a warning message appears on the cluster, and a trailer icon appears on the infotainment system screen.
- A Kia trailer control connector is available at an authorized Kia dealer.

WARNING

- If the TCM controller is attached incorrectly or if settings are not configured correctly in the trailer menu, the driver assistance system's control stability decreases and may lead to an accident.
- The trailer menu settings are maintained even after the vehicle is restarted. Before driving, make sure that the controller is attached correctly and the settings are correct, and drive carefully.

TIP

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

Safety chains

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 separates from the trailer hitch.

Instructions about safety chains may be provided by the trailer hitch or trailer manufacturer. Follow their recommendations for attaching safety chains. Always leave just enough slack so that you can turn with your trailer. Never allow safety chains drag on the ground.

Trailer brakes

If your trailer is equipped with a braking system, make sure that it conforms to your state'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, it needs its own brakes, and they must be adequate. Read and follow the instructions for the trailer brakes so that you can install, adjust, and maintain them properly.

Don't tap into your vehicle's brake system.

WARNING

Trailer brakes

Do not use a trailer with its own brakes unless you are 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 on the open road, you must get to know your trailer. Acquaint yourself with the feel of handling and braking your vehicle with the added weight of the trailer. Always keep in mind that your vehicle with a trailer is a good deal longer and not nearly as responsive as your vehicle is by itself.

Before you start, check the trailer hitch and platform, safety chains, electrical connectors, lights, tires, and mirror adjustment. If the trailer has electric brakes, start moving your vehicle and trailer, and then apply the trailer brake controller by hand to be sure the brakes are working. This lets you check your electrical connection at the same time.

Following distance

Stay at least twice as far behind the vehicle ahead as you would when driving without a trailer. This can help you avoid situations that require heavy braking and sudden turns.

Passing

You need more passing distance ahead while towing a trailer. Because of the increased vehicle length, you need to drive much farther beyond the vehicle you pass before you can return to

your lane.

Backing up

Hold the bottom of the steering wheel with one hand. 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 turning with a trailer, make wider turns than normal. This prevents your trailer from striking soft shoulders, curbs, road signs, trees, or other objects. Avoid jerky or sudden maneuvers. Signal well in advance.

Turn signals when towing a trailer

When you tow a trailer, your trailer must have its own turn signal flasher and extra wiring. The green arrows on the instrument cluster flash whenever you signal a turn or lane change. When properly connected, the trailer lights also flash to alert other drivers that you are about to turn, change lanes, or stop.

When you tow a trailer, the green arrows on the instrument cluster flash for turns, even if the bulbs on the trailer are burned out. You may think drivers behind you are seeing your signals when they are not. It is important to occasionally check to make sure the trailer bulbs are working. You must also check the lights every time you disconnect and reconnect the wires.

Do not connect a trailer's lighting system directly to your vehicle's lighting system. Only use an approved trailer wiring harness.

Have an authorized Kia dealer assist with installing the wiring harness.

Visit an authorized Kia dealer.

WARNING

Failure to use an approved trailer wiring harness could result in damage to your vehicle's electrical system or personal injury.

Detection of trailer light connection

Your vehicle can only detect when a trailer light is connected when you use genuine accessories (tow bar and wiring harness) that recognize when a trailer is connected and consequently inform your vehicle's systems. When you plug in a trailer socket, either engage the brake pedal or activate the turn signal lights activated. The electronic control unit detects the trailer because of the power consumption by the trailer lighting and informs your vehicle's systems. When you disconnect the trailer, engage the brake pedal again or activate the turn signal lights so that the control unit can detect that there is no more power consumption anymore by the trailer lighting. The assistance systems that were turned off automatically turn back on.

It is your responsibility to ensure that all electrical connections are working and all trailer lights are operating before and during trailer towing. You must perform manual checks.

TIP

Use only genuine electrical connections. Do not attempt to arbitrarily splice or directly connect the trailer wiring using any other methods. Doing so may damage your vehicle's electrical system, resulting in malfunctions.

Driving on grades

Reduce your speed and shift to a lower gear before you start driving down a long or steep hill downgrade. If you do not shift to a lower gear, you might have to use your brakes so much that they get hot and no longer operate efficiently.

On a long uphill grade, shift to a lower gear and reduce your speed to around 45 mph (70 km/h) to reduce the possibility of engine and transmission overheating.

NOTE

- When towing a trailer on steep grades (in excess of 6%), pay close attention to the engine coolant temperature gauge to ensure that the engine does not overheat. If the needle of the coolant temperature gauge moves across the dial towards "H (HOT) (or 260 °F/130 °C)", pull over and stop as soon as it is safe to do so. Allow the engine to idle until it cools down. You may start driving again once the engine has cooled sufficiently.
- You must choose your speed depending on the trailer weight and the uphill grade to reduce the possibility of the engine and transmission overheating.

Parking on hills

You should not park your vehicle on a hill if you have a trailer attached. People can be seriously or fatally injured, and both your vehicle and the trailer can be damaged if they unexpectedly roll downhill.

WARNING

Parking on a hill

Parking your vehicle on a hill when you have a trailer attached could cause serious injury or death should the trailer break loose.

If you must park your vehicle on a hill when you have a trailer attached, follow these instructions:

1. Pull your vehicle into the parking space. Turn the steering wheel in the direction of the curb (right if headed downhill, left if headed up hill).
2. Apply the parking brake and turn off your vehicle.
3. Place chocks under the trailer wheels on the downhill side of the wheels.
4. Start your vehicle, engage the brake, shift to N (Neutral), release the parking brake, and slowly release the brake until the trailer chocks absorb the load.
5. Engage the brake and apply the parking brake again.
6. Turn your vehicle off and release the brake, but leave the parking brake applied.

WARNING

Parking brake

It can be dangerous to leave your vehicle if the parking brake is not firmly applied.

If you leave the engine running, your vehicle can move suddenly. You or others could be seriously or fatally injured.

When you are ready to leave after parking on a hill

1. Engage the brake pedal and hold it down while you:
   - Start your vehicle;

- 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 tow a trailer. Important items to pay particular attention to include engine oil, axle lubricant, cooling system fluid, and the condition of the brakes. Each item is covered in this owner's manual, and the index will help you find them quickly. If you are towing a trailer, review these sections before you start your trip.
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 of driving. Most importantly, make sure all hitch nuts and bolts are tight.

NOTE

- Due to higher load during trailer usage, overheating might occur on hot days or while driving uphill. If the coolant gauge indicates overheating, turn off the air conditioner and stop your vehicle in a safe area to cool down the engine.
- When towing a trailer, check the 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.

If you decide to tow a trailer

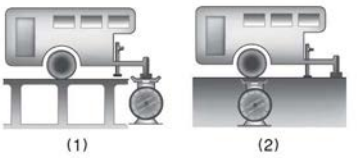
Important points if you decide to tow a trailer:

- Consider using sway control. You can ask a trailer hitch dealer about sway control.
- Do not do tow a trailer during your vehicle's first 1,200 miles (2,000 km) to allow the engine to properly break in. Failure to heed this advice may result in serious engine or transmission damage.
- When towing a trailer, consult an authorized Kia dealer on additional requirements, such as a towing kit.
- Always drive your vehicle at a moderate speed (less than 60 mph (100 km/h)) when towing a trailer.
- On a long uphill grade, do not exceed 45 mph (70 km/h) or the posted towing speed limit, whichever is lower.
- The following chart contains important considerations related to weight:

Item		Smartstream G2.5 T-GDi		
		Standard	X-Line	X-Pro
Maximum trailer weight	With brake system	5,000 lbs. (2,268 kg)		
	Without brake system	1,653 lbs. (750 kg)		
Maximum tongue weight		500 lbs. (227 kg)		

Weight of the trailer

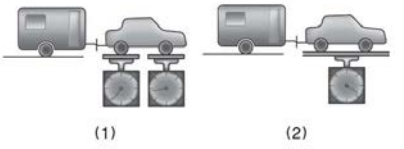
(1) Tongue Load
(2) Total Trailer Weight



KIAPB043_2

The maximum safe weight should never exceed the maximum trailer weight with trailer brakes. Even that may be too heavy depending on how you plan to use your trailer. For example, speed, altitude, road grades, outside temperature, and how often you tow a trailer are all important. The ideal trailer weight may also depend on any special equipment that you have on your vehicle.

Weight of the trailer tongue



(1) Gross Axle Weight
(2) Gross Vehicle Weight (GVW)

KIAPB044_2

The tongue load of any trailer is an important weight to measure because it affects the total GVW. This weight includes the curb weight of your vehicle, any cargo you carry, and the people riding in your vehicle. If you tow a trailer, you must add the tongue load to the GVW because your vehicle is also carrying that weight.

The tongue load measured at the hitch when fully loaded should be within 10-15% of the total weight of the trailer.

After you load your trailer, weigh the trailer and the tongue separately to see if the weights are proper. If they are not, you may be able to correct them by moving some items around in the trailer.

WARNING

Trailer

- 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 or personal injury. Check weights and loading on a commercial scale or at a highway patrol office equipped with scales.
- An improperly loaded trailer can cause loss of control of your vehicle.

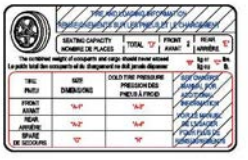
Vehicle load limit

The tire and loading information label on the driver side door displays your vehicle's load limit.

Tire and loading information label

The label located on the driver side door sill lists the original tire size, the cold tire pressures recommended for your vehicle, the number of people that can be in your vehicle, and the vehicle capacity weight.

Example for label



KIAPB045

Vehicle capacity weight:

- 7 seats: 1,157 lb (525 kg)
- 8 seats: 1,323 lb (600 kg)

Vehicle capacity weight is the maximum combined weight of occupants and cargo. If your vehicle is equipped with a trailer, the combined weight includes the tongue load.

Seating capacity total: 7 or 8 persons (front seat: 2 persons; rear seat: 5 or 6 persons).

Seating capacity is the maximum number of occupants, including the driver, that your vehicle may carry.

The seating capacity may be reduced based on the weight of all the occupants and the weight of the cargo you are carrying or towing.

Do not overload your vehicle, as it has a load limit (or limit to the total weight, including occupants and cargo, that your vehicle can carry).

Towing capacity:

- Smartstream G2.5 T-GDi:
  - With brake system: 5,000 lbs. (2,268 kg)
  - Without brake system: 1,653 lbs. (750 kg)

Towing capacity is the maximum trailer weight, including its cargo weight, that your vehicle can tow.

Cargo capacity:

The cargo capacity of your vehicle will increase or decrease depending on the weight and the number of occupants.

Steps For Determining Correct Load Limit—

1. Locate the statement "The combined weight of occupants and cargo should never exceed XXX kg or XXX lbs." on your vehicle's placard.
2. Determine the combined weight of the driver and passengers that will be riding in your vehicle.
3. Subtract the combined weight of the driver and passengers from XXX kg or XXX lbs.
4. The resulting figure equals the available amount of cargo and luggage load capacity. For example, if the "XXX" amount equals 1400 lbs. and there will be five 150 lb passengers in your vehicle, the amount of available cargo and luggage load capacity is 650 lbs. (1400-750 (5x150) = 650 lbs.)
5. Determine the combined weight of luggage and cargo being loaded on the vehicle. That weight may not safely exceed the available cargo and luggage load capacity calculated in Step 4.
6. If your vehicle will be towing a trailer, load from your trailer will be transferred to your vehicle. Consult this manual to determine how this reduces the available cargo and luggage load capacity of your vehicle.

WARNING

Loose cargo

Do not travel with unsecured heavy blunt objects in the passenger compartment of your vehicle (such as suitcases or unsecured child seats). These items may strike an occupant during a sudden stop or crash.

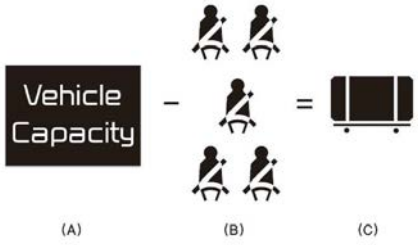
Example 1



KIAPB046

Item	Description	Total
(A)	Vehicle Capacity Weight	849 lb (385 kg)
(B)	Subtract Occupant Weight 150 lb (68 kg)×2	300 lb (136 kg)
(C)	Available Cargo and Luggage Weight	549 lb (249 kg)

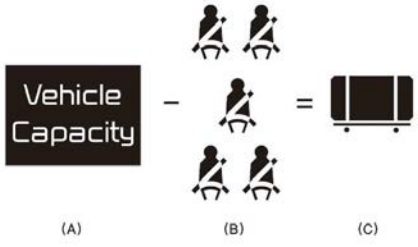
Example 2



KIAPB047

Item	Description	Total
(A)	Vehicle Capacity Weight	849 lb (385 kg)
(B)	Subtract Occupant Weight 150 lb (68 kg)×5	750 lb (340 kg)
(C)	Available Cargo and Luggage Weight	99 lb (45 kg)

Example 3



KIAPB047

Item	Description	Total
(A)	Vehicle Capacity Weight	849 lb (385 kg)
(B)	Subtract Occupant Weight	805 lb

Item	Description	Total
	161 lb (73 kg)×5	(365 kg)
(C)	Available Cargo and Luggage Weight	44 lb (20 kg)

Refer to your vehicle's tire and loading information label for specific information about your vehicle's capacity weight and seating positions. The combined weight of the driver, passengers, and cargo should never exceed your vehicle's capacity weight.

Certification label

The certification label is located on the driver side door sill at the center pillar.



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This label shows the maximum allowable weight of the fully loaded vehicle. This is called the GVWR (Gross Vehicle Weight Rating). The GVWR includes the weight of your vehicle, all occupants, and all cargo.
This label also tells you the maximum weight that can be supported by the front and rear axles. This is called the Gross Axle Weight Rating (GAWR).
To calculate the actual loads on your front and rear axles, go to a weigh station and weigh your vehicle. Your authorized Kia dealer can help you with this. Be sure to spread out your load equally on both sides of the center line.

WARNING

Overloading
Never exceed the GVWR for your vehicle, the GAWR for either the front or rear axle, or the vehicle capacity weight. Exceeding these ratings can affect your vehicle's handling and braking performance.

The certification label helps you decide how much cargo and installed equipment your vehicle can carry.
If you carry items inside your vehicle (such as suitcases, tools, or packages), they are moving as fast as your vehicle. If you must stop or turn quickly, or if there is a crash, the items will keep moving and can cause an injury if they strike you or a passenger.

WARNING

Overloading
Do not overload your vehicle. Overloading your vehicle can cause heat buildup in the tires (and possible tire failure), increased stopping distances, and poor vehicle handling, all of which may result in a crash.

NOTE

Do not overload your vehicle. Overloading your vehicle may cause damage. Repairs to damage caused by overloading your vehicle are not covered by your warranty.

Vehicle weight

This section offers guidance for properly loading your vehicle to keep your loaded vehicle weight within its design rating capability. Properly loading your vehicle maximizes your vehicle's design performance. Before loading your vehicle, familiarize yourself with the following terms for determining your vehicle's weight ratings, from your vehicle's specifications, and from the certification label:

Base curb weight

This is the weight of your 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 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 the vehicle curb weight, cargo, and occupants.

GAWR (Gross axle weight rating)

This is the maximum allowable weight that a single axle (front or rear) can carry. 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 the actual Cargo weight plus the weight of all 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

certification label located on the driver side (or front passenger side) door sill shows the GVWR.

Overloading

WARNING

Vehicle weight
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 side (or front passenger side) door. Exceeding these ratings can cause an accident or damage to your vehicle. You can calculate the weight of your load by weighing the items (and people) before putting them in your vehicle. Be careful not to overload your vehicle.

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Driver assistance guide

WARNING

As the driver, do not rely on the Driver Assistance Systems. These systems do not replace the need for paying attention and driving safely. These systems operate under the assumption that the driver will maintain control of the vehicle, and are designed to help reduce the impact to the occupants in a collision and assist the driver under normal driving conditions. There are limits to the degree of recognition accuracy and control performance that these systems can provide, as more fully explained in this manual. The driver is solely responsible for paying attention to the vehicle's surroundings and driving safely. Complete attention is always required while driving, and you should be ready to take action and apply brakes and/or steer the vehicle to avoid crashes. This is NOT an autonomous (self-driving) vehicle. Failure to use proper care when driving may result in death, injury or vehicle damage.

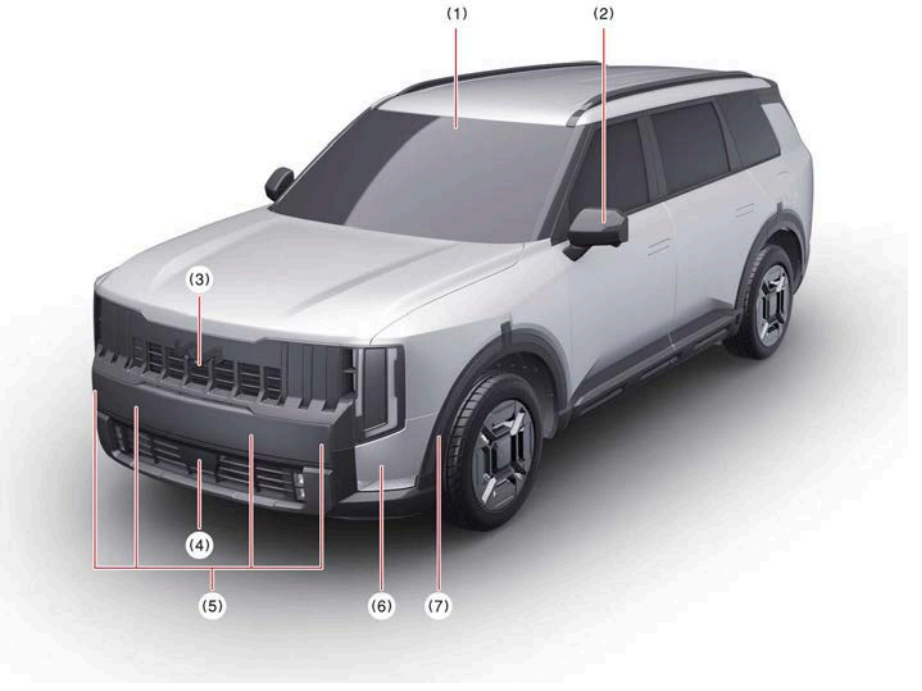
TIP

Due to software updates of the infotainment system, the descriptions of each driver assistance feature may differ from those in the owner's manual. In this case, please scan the QR code in the quick guide of the infotainment system to access the web manual and check the updated information.

Overview

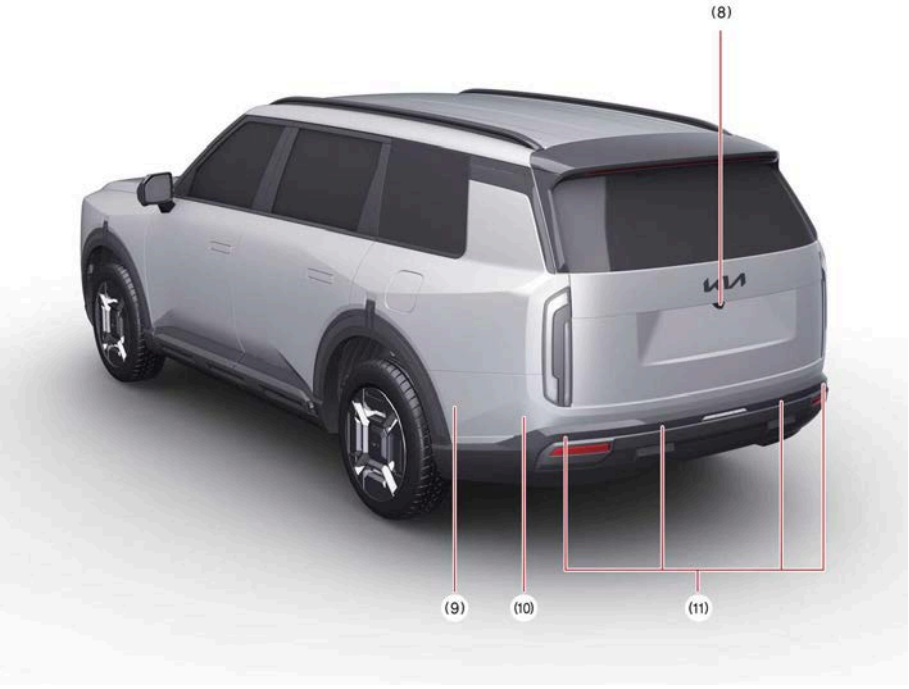
Detecting sensor(s)

Front view



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Rear view



OLQ2A105002

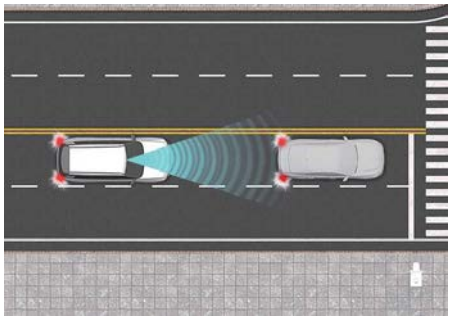
Refer to the picture above for the detailed location of the detecting sensors.
* : if equipped

No	Sensor	Function
(1)	Front view camera	• High Beam Assist (HBA) • Forward Collision-Avoidance Assist (FCA) (Sensor Fusion) • Lane Keeping Assist (LKA) • Intelligent Speed Limit Assist (ISLA)* • Driver Attention Warning (DAW) • Smart Cruise Control (SCC) • Lane Following Assist (LFA) • Highway Driving Assist (HDA)* • Emergency Stop (ES)
(2)	Wide-side view camera*	• Blind-Spot View Monitor (BVM)* • Surround View Monitor (SVM)*
(3)	Wide-front view camera*	• Surround View Monitor (SVM)*

No	Sensor	Function
(4)	Front radar	• Forward Collision-Avoidance Assist (FCA) (Sensor Fusion) • Smart Cruise Control (SCC) • Highway Driving Assist (HDA)* • Lane Keeping Assist (LKA) • Emergency Stop (ES)
(5)	Front ultrasonic sensors	• Parking Distance Warning (PDW) • Remote Smart Parking Assist (RSPA)*
(6)	Front corner radar*	• Forward Collision-Avoidance Assist (FCA) (Sensor Fusion)* • Smart Cruise Control (SCC)* • Highway Driving Assist (HDA)*
(7)	Front side ultrasonic sensors*	• Parking Distance Warning (PDW) • Remote Smart Parking Assist (RSPA)*
(8)	Wide-rear view camera	• Rear View Monitor (RVM)* • Surround View Monitor (SVM)* • Reverse Parking Collision-Avoidance Assist (PCA)*
(9)	Rear side ultrasonic sensors*	• Parking Distance Warning (PDW) • Remote Smart Parking Assist (RSPA)*
(10)	Rear corner radar	• Forward Collision-Avoidance Assist (FCA) (Sensor Fusion) • Blind-Spot Collision-Avoidance Assist (BCA) • Safe Exit Assist (SEA) • Highway Driving Assist (HDA)* • Rear Cross-Traffic Collision-Avoidance Assist (RCCA) • Lane Keeping Assist (LKA)
(11)	Rear ultrasonic sensors	• Parking Distance Warning (PDW) • Reverse Parking Collision-Avoidance Assist (PCA)* • Remote Smart Parking Assist (RSPA)*

Forward Collision-avoidance Assist (FCA) (Sensor Fusion)

Basic function

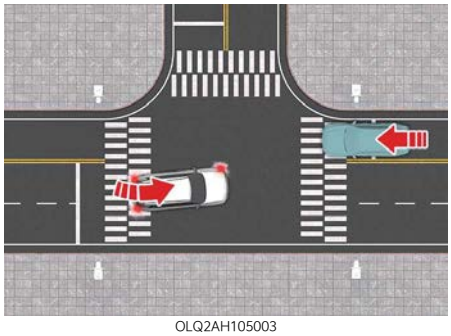


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Forward Collision-avoidance Assist can detect a vehicle, a motorcyclist, pedestrian, or cyclist ahead on the road and may warn you of a possible collision with a warning message on the instrument cluster and a warning sound. Also, Forward Collision-avoidance Assist may assist with braking your vehicle to help reduce collision speed or avoid a collision.

Forward Collision-avoidance Assist can detect vehicles ahead of you and in adjacent lanes even at high speeds. If the driver makes a lane change at those speeds, your vehicle may apply emergency braking to mitigate or avoid a collision. (if equipped)

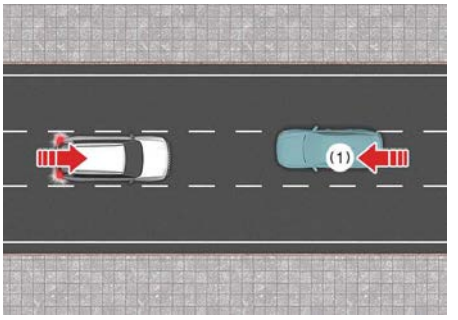
Junction Turning function



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When you turn left at a crossroad with the turn signal ON, Junction Turning can apply emergency braking to help you avoid a collision with a vehicle, motorcyclist, or cyclist in an oncoming lane.

Direct Oncoming function



(1) Oncoming vehicle

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Direct Oncoming function can help reduce the speed of a collision when it detects a vehicle or motorcyclist approaching from the opposite direction.

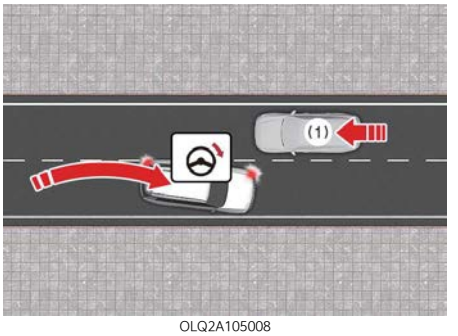
Junction Crossing function (if equipped)



OLQ2A105007

Junction Crossing function can apply emergency braking to help mitigate or avoid a collision with oncoming vehicles on your left or right side when you cross an intersection.

Lane-Change Oncoming function (if equipped)

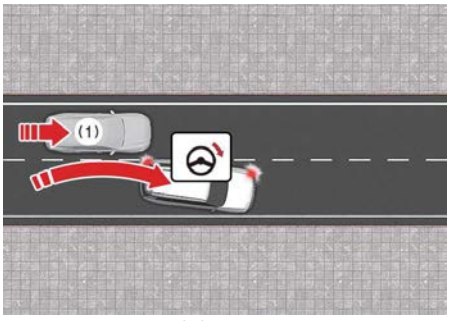


(1) Oncoming vehicle

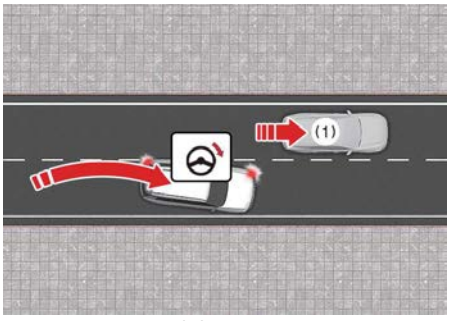
OLQ2A105008

When changing lanes, Lane-Change Oncoming can assist with your steering to help mitigate or avoid a collision with an oncoming vehicle or motorcyclist.

Lane-Change Side function (if equipped)



OLQ2A105009

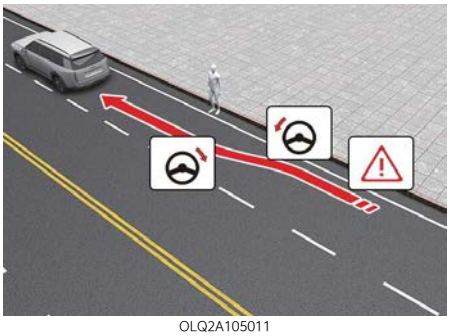


OLQ2A105010

(1) Approaching car from side

When changing lanes, Lane-Change Side can assist with your steering to help mitigate or avoid a collision with vehicles or motorcyclists in the next lane.

Evasive Steering Assist function (if equipped)



OLQ2A105011

- Driver Steering Assist

  If your vehicle detects a possible collision with a vehicle, pedestrian, or cyclist ahead, Evasive Steering Assist can assist you in steering to avoid the collision.
- Evasive Steering Assist

  Evasive Steering Assist can help mitigate or avoid a collision with a pedestrian or cyclist in the same lane ahead of you. If your vehicle detects a risk of collision, Evasive Steering Assist can warn you and assist your steering if you move the steering wheel.

Detection sensor

Please refer to "Detecting sensor(s)" on page 461 for the applicable sensors and their locations.

WARNING

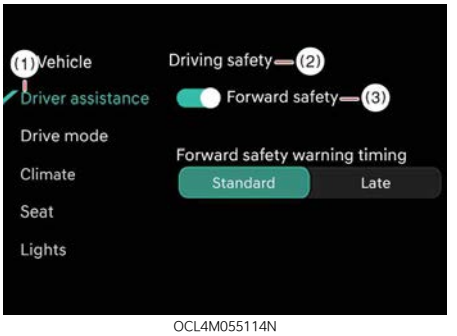
- Never damage or disassemble the detection sensor or sensor assembly.
- If the detection sensors have been replaced or repaired, have the vehicle inspected by an authorized Kia dealer.
- If the vehicle experiences an impact to or around the radar, Forward Collision-avoidance Assist may not operate properly, even if the instrument cluster does not display a warning message. Visit an authorized Kia dealer.
- Never tint or install any accessories or stickers on the windshield.
- Be extremely careful to keep the front view camera dry.
- Never place any reflective objects (for example, white paper or a mirror) over the instrument cluster.
- Do not place any objects near or install any accessories on the windshield. This can affect the performance of the climate control system's defogging and defrosting function, which may prevent the Driver Assistance systems from operating.
- Do not apply a 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 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 you apply paint on or change the front, front corner and/or rear corner radar sensor cover, Forward Collision-avoidance Assist may not function properly.

  Use only Kia genuine parts or those of an equivalent standard with proven quality and performance to repair or replace the radar sensor covers.
- The function may not work properly if the bumper was replaced, or the areas of the front corner radar or rear corner radar were damaged or paint was applied.
- If you install a trailer or carrier, this may adversely affect the performance of Forward Collision-avoidance Assist and prevent it from operating properly.

Forward Collision-avoidance Assist settings

Forward Safety



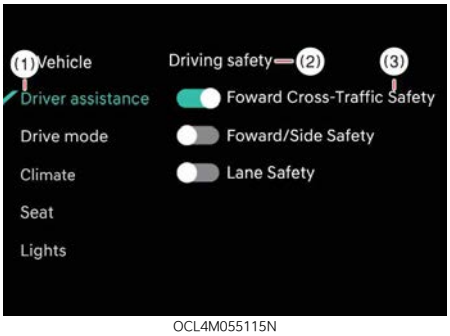
OCL4M055114N

(1) **Driver Assistance**
(2) **Driving Safety**
(3) **Forward Safety**

While the vehicle is ON, tap **Setup** > **Vehicle** > **Driver Assistance** > **Driving Safety** on the infotainment system screen to change the Forward Collision-Avoidance Assist settings.

Forward Safety: Collision warning or emergency braking may operate in a collision-imminent situation. If you deselect the setting, Forward safety will turn off and the Forward Safety warning light ( ) will appear on the cluster.

Forward Cross-Traffic Safety (if equipped)

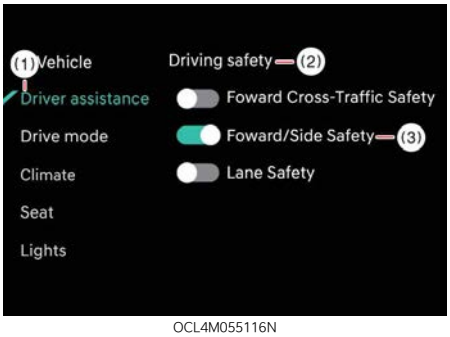


OCL4M055115N

(1) **Driver Assistance**
(2) **Driving Safety**
(3) **Forward Cross-Traffic Safety**

While the vehicle is ON, tap **Setup > Vehicle > Driver Assistance > Driving Safety > Forward Cross-Traffic Safety** on the infotainment system screen to change the Junction Crossing function settings.

Forward/Side Safety (if equipped)



OCL4M055116N

(1) **Driver Assistance**
(2) **Driving Safety**
(3) **Forward/Side Safety**

While the vehicle is ON, tap **Setup > Vehicle > Driver Assistance > Driving Safety > Forward/Side Safety** on the infotainment system screen to change the Forward/Side Safety settings.

Forward/Side Safety: Collision warning or emergency steering may assist the driver in a collision-imminent situation. If you deselect the setting, Forward safety will turn off and the Emergency steering warning light ( ) will appear on the cluster.

You can monitor Forward Collision-Avoidance Assist setting status on the Settings menu of the infotainment system screen. If the Forward Safety warning light ( ) or Emergency steering warning light ( ) remains ON when Forward safety or Forward/Side safety is selected, have the vehicle inspected by an authorized Kia dealer.

TIP

Even when Forward safety is turned ON, it is the driver's responsibility to remain alert and in control of the vehicle. However, if **Forward safety** is turned OFF, the system will be unable to provide assistance.

Automatic Activation

Forward Collision-Avoidance Assist (FCA) is automatically activated under the following driving convenience conditions:

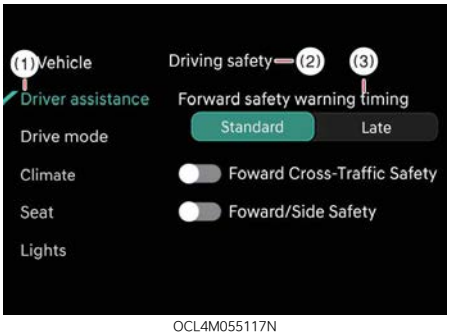
- When both Lane Following Assist (LFA) and Smart Cruise Control (SCC) are turned on
- When Highway Driving Assist (HDA) is turned on (if equipped)

When Forward Collision-Avoidance Assist (FCA) is automatically activated under the above conditions and you attempt to turn it off, a warning message will appear and the system will not be deactivated.

CAUTION

- If you turn the engine off and on, Forward Collision-Avoidance Assist will automatically be activated. You can turn each function off in the settings menu while the vehicle is stopped. But, if you do so, you will not be able to receive assistance from the deactivated Forward Collision-Avoidance Assist feature. Always drive with caution.
- Steering wheel vibration can be turned ON or OFF.
- Forward Safety settings include the "Basic," "Junction Turning," and "Direct Oncoming" functions. Forward Cross-Traffic Safety includes the "Junction Crossing" function. Forward/Side Safety includes the "Lane Change Oncoming", "Lane Change Side", and "Evasive Steering Assist" functions. (if equipped)
- If Forward Safety is set to OFF, even if Forward Cross-Traffic Safety and Forward/Side Safety are selected, "Junction Crossing" function will not operate. (if equipped)
- When towing a trailer or installing a carrier, vehicle stability may be reduced. Disable the function if necessary and always drive safely with caution.
- Do not use the system when towing another vehicle or when installing equipment that may affect sensor performance or vehicle balance. The system may not operate properly.
- Forward Cross-Traffic Safety and Forward/Side Safety functions (if equipped) may not operate properly when a trailer, carrier, or other equipment is installed, or when towing another vehicle. Do not use these functions in such conditions.
- When connecting a trailer or carrier, set the trailer or carrier menu (if equipped). If the driver manually sets the menu or the trailer or carrier connection is automatically recognized through genuine parts, the functions of the driver assistance system may be limited. Please refer to "Driver assistance system limitations" on page 653 and always drive with caution.
- When Forward Collision-Avoidance Assist (FCA) is automatically activated, it will remain on even if driving convenience features are turned off. To turn off Forward Collision-Avoidance Assist (FCA), stop the vehicle, turn off the driving convenience features, and then attempt to deactivate it.

Forward Safety Warning Timing



OCL4M055117N

(1) **Driver Assistance**
(2) **Driving Safety**
(3) **Forward Safety Warning Timing**

While the vehicle is ON, tap **Setup > Vehicle > Driver Assistance > Driving Safety > Forward Safety Warning Timing** on the infotainment system screen to change the Forward Collision-Avoidance Assist Warning Timing settings.

- Use **Standard** in normal driving conditions. If the Warning Timing seems sensitive, change it to **Late**.
- If you select **Late**, Forward Collision-Avoidance Assist warns you more slowly.

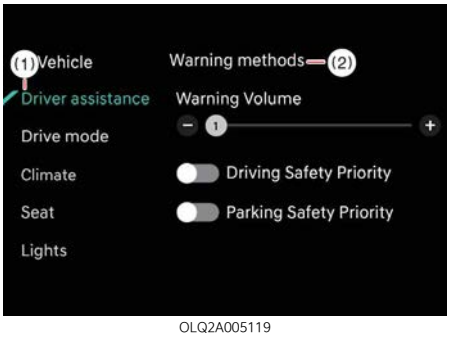
TIP

- Even if you select **Standard** Warning Timing, the warning may seem too slow if the vehicle ahead stops suddenly.
- Select **Late** Warning Timing when driving at low speeds in light traffic.

TIP

The warning timing will not reset, even when restarting the vehicle.

Warning Methods



OLQ2A005119

(1) **Driver Assistance**
(2) **Warning Methods**

To change the Warning Methods settings while the vehicle is ON, tap **Setup > Vehicle > Driver**

Assistance > Warning Methods on the infotainment system screen. You can change the following settings:

- **Warning Volume**: Adjusts the volume of the warning sound.
- **Haptic Warning**: Turns ON the steering wheel vibration warning.
- **Driving Safety Priority**: Lowers all other audio volumes when the Driving Safety system sounds a warning.

TIP

- Your **Warning Methods** settings may apply to the **Warning Methods** of other driver assistance systems.
- **Warning Methods** maintain their last settings when you turn OFF and restart the vehicle.
- The **Warning Methods** setting menu may not be available on all vehicles.

Forward Collision-avoidance Assist operation

Basic function

Basic functions for Forward Collision-Avoidance Assist are:

- Collision Warning
- Emergency Braking
- Stopping vehicle and ending brake control

Collision Warning



OLQ2A005001

(1) **Collision Warning**

Collision Warning can alert you with Forward Safety warning light blinking ( ), a warning message, an audible warning, and steering wheel vibration.

Collision Warning operates when the vehicle ahead moves within the following speed ranges:

- The vehicle or motorcyclist speed is approximately 6-124 mph (10-200 km/h).
- The pedestrian or cyclist speed is approximately 6-53 mph (10-85 km/h).

Emergency Braking



OLQ2A005002

(1) **Emergency Braking**

Emergency Braking can alert you with Forward Safety warning light blinking ( ), a warning message, an audible warning, and steering wheel vibration.
Emergency Braking can be activated according to oncoming objects and danger levels under the following conditions:

- Vehicle or motorcyclist *:

-	Driving target	Stopped target
Weak braking power	6-124 mph (10-200 km/h)	
Strong braking power	6-80 mph (10-130 km/h)	6-53 mph (10-85 km/h)

*: If Forward Collision- Avoidance Assist determines that a collision cannot be avoided even by changing lanes due to the surrounding conditions of the vehicle, braking assistance is provided earlier. When the target object is stationary, Forward Collision- Avoidance Assist may operate at speeds between about 6-62 mph (10-100 km/h) (if equipped).

- Pedestrian or cyclist: 6-40 mph (10-65 km/h)
- When the object enters the operating range of the Forward Collision-Avoidance Assist

WARNING

- The function's operational range may decrease due to the traffic ahead of or the surroundings of the vehicle.
- When driving at night, the ability to detect motorcycles is decreased. Thus, the Forward Collision- Avoidance Assist system may temporarily be limited or not work.

Stopping vehicle and ending brake control



OLQ2A005003

(1) **Drive carefully**

If Emergency Braking stops your vehicle, a warning message appears on the instrument cluster.
For safety purposes, you should immediately engage the brake pedal and check the vehicle's surroundings.
Brake control ends approximately 2 seconds after Emergency Braking stops your vehicle.

> **TIP**
>
> Press the hazard lights button to turn OFF the warning sound during collision warning and emergency braking.

Junction Turning function

Junction Turning functions for Forward Collision-Avoidance Assist are:

- Collision Warning
- Emergency Braking
- Stopping vehicle and ending brake control

Collision Warning



OLQ2A005004

(1) **Collision Warning**

Collision Warning can alert you with Forward Safety warning light blinking ( ), a warning message, an audible warning, and steering wheel vibration.
Collision Warning may be activated under the following conditions:

- Your driving speed is approximately 6-19 mph (10-30 km/h).
- The oncoming vehicle speed is approximately 19-44 mph (30-70 km/h).
- The motorcyclist or cyclist speed is approximately 9-44 mph (15-70 km/h).
- When the object enters the operating range of the Junction Turning function.

Emergency Braking



OLQ2A005005

(1) **Emergency Braking**

Emergency Braking can alert you with the Forward Safety warning light blinking (), a warning message, an audible warning, and steering wheel vibration. Emergency Braking may activate to help avoid a collision with an oncoming vehicle.

Emergency Braking may be activated in the following conditions:

- Your driving speed is approximately 6-19 mph (10-30 km/h).
- The oncoming vehicle speed is approximately 19-44 mph (30-70 km/h).
- The motorcyclist or cyclist speed is approximately 9-44 mph (15-70 km/h).
- When the object enters the operating range of the Junction Turning function.

Stopping vehicle and ending brake control



OLQ2A005003

(1) **Drive carefully**

When Emergency Braking stops your vehicle, a warning message appears on the instrument cluster.

For safety purposes, you should immediately engage the brake pedal and check the vehicle's surroundings.

Brake control ends approximately 2 seconds after Emergency Braking stops your vehicle.

TIP

Press the hazard lights button to turn OFF the warning sound during collision warning and emergency braking.

TIP

When turning right at an intersection, braking assistance may activate if there is a collision risk with a cyclist approaching at a speed of 9-12 mph (15-20 km/h) from the opposite side.

Direct Oncoming function

Direct Oncoming functions for Forward Collision-Avoidance Assist are:

- Collision Warning
- Emergency Braking
- Stopping vehicle and ending brake control

Collision Warning



OLQ2A005001

(1) **Collision Warning**

Collision Warning can alert you with Forward Safety warning light blinking ( ), a warning message, an audible warning, and steering wheel vibration.

Collision Warning may be activated under the following conditions:

- Your speed is approximately 19-80 mph (30-130 km/h) (*if equipped: 6-80mph (10-130 km/h)).
- The oncoming vehicle speed is above approximately 6 mph (10 km/h).

Emergency Braking



OLQ2A005002

(1) **Emergency Braking**

Emergency Braking can alert you with Forward Safety warning light blinking ( ), a warning message, an audible warning, and steering wheel vibration.
Emergency Braking may be activated in the following conditions:

- Your driving speed is approximately 19-80 mph (30-130 km/h).
- The oncoming vehicle speed is above approximately 6 mph (10 km/h).
- When the object enters the operating range of the Direct Oncoming function.

Stopping vehicle and ending brake control



OLQ2A005003

(1) **Drive carefully**

When Emergency Braking stops your vehicle, a warning message appears on the instrument cluster.
For safety purposes, you should immediately engage the brake pedal and check the vehicle's surroundings.
Brake control ends approximately 2 seconds after Emergency Braking stops your vehicle.

WARNING

- If your vehicle or the oncoming vehicle is not driving straight, the Front Oncoming function warning and control may be late or may not operate.
- When driving at night, the ability to detect motorcycles is decreased. Thus, the Forward Collision- Avoidance Assist system may temporarily be limited or not work.

TIP

Press the hazard lights button to turn OFF the warning sound during collision warning and emergency braking.

Junction Crossing function (if equipped)

Junction turning functions for Forward Collision-Avoidance Assist are:
- Collision Warning
- Emergency Braking
- Stopping vehicle and ending brake control

Collision Warning



OLQ2A005006

(1) **Collision Warning**

Collision Warning can alert you with Forward Safety warning light blinking ( ), a warning message, an audible warning, and steering wheel vibration.
Collision Warning may activate under the following conditions:
- Your speed is approximately 6-34 mph (10-55km/h).
- The crossing vehicle speed is approximately 6-37 mph (10-60km/h).
- When the object enters the operating range of the Junction Crossing function.
- When the target is approaching at a speed slower than the vehicle's speed.

Emergency Braking



OLQ2A005007

(1) **Emergency Braking**

Emergency Braking can alert you with Forward Safety warning light blinking (), a warning message, an audible warning, and steering wheel vibration. Brake assist may activate to help avoid a collision with a vehicle.
Emergency Braking may activate in the following conditions:
- Your driving speed is approximately 6-34 mph (10-55km/h).
- The crossing vehicle speed is approximately 6-25 mph (10-40km/h).
- When the object approaches at a speed slower than the vehicle's own speed.

Stopping vehicle and ending brake control



OLQ2A005003

(1) **Drive carefully**

If Emergency Braking stops your vehicle, a warning message appears on the instrument cluster. For safety purposes, you should immediately engage the brake pedal and check the vehicle's surroundings.
Brake control ends approximately 2 seconds after Emergency Braking stops your vehicle.

WARNING

If the angle of possible collision with the crossing vehicle is beyond a certain range, Junction Crossing warning and control may be late or may not operate.

NOTE

You can press the hazard warning lights during a collision warning or emergency braking to mute the warning sound.

Lane-Change Oncoming function (if equipped)

Lane-Change Oncoming functions for Forward Collision-Avoidance Assist are:
- Collision Warning
- Emergency Steering

Collision Warning



OLQ2A005004

(1) **Collision Warning**

Collision Warning can alert you with Emergency steering warning light blinking ( ), a warning message, an audible warning, and steering wheel vibration.

Collision Warning may activate under the following conditions:

- Your speed is approximately 25-90 mph (40-145 km/h).
- The oncoming vehicle or motorcyclist speed is above approximately 6 mph (10 km/h).
- The relative speed is below approximately 124 mph (200 km/h).
- When the directions of travel of your vehicle and an oncoming vehicle or motorcycle are opposite.
- When it is within a certain period of time after the system determines that the vehicle has departed from the lane.
- When the target enters the operating range of Lane-Change Oncoming function.
- When driving on a straight road.

Emergency Steering



OLQ2A005009

1. **Emergency Steering**

Emergency Steering can alert you with Emergency Steering warning light blinking ( ), a warning message, an audible warning, and steering wheel vibration. The Steering assist activates to help mitigate or avoid a collision with an oncoming vehicle or motorcyclist.

Emergency Steering may activate under the following conditions:

- Your driving speed is approximately 25-90 mph (40-145 km/h).
- The oncoming vehicle or motorcyclist speed is above approximately 6 mph (10 km/h).

- The relative speed is below approximately 124 mph (200 km/h).
- The directions of travel of your vehicle and an oncoming vehicle or motorcycle are opposite.
- It is within a certain period of time after the system determines that the vehicle has departed from the lane.
- The target enters the operating range of the Oncoming Vehicle Response function during overtaking.
- Driving on a straight road.
- Both lane markings are detected.
- There is no risk of a secondary collision.

Lane-Change Side function (if equipped)

Lane-Change Side functions for Forward Collision-Avoidance Assist are:
- Collision Warning
- Emergency Steering

Collision Warning



OLQ2A005004


OLQ2A005008

(1) **Collision Warning**

Collision Warning can alert you with the emergency steering warning light blinking (), a warning message, an audible warning, and steering wheel vibration. The warning light appears on the outside rearview mirror when a vehicle is detected in the right or left lane from the rear.

Collision Warning may activate under the following conditions:
- Your driving speed is approximately 25-90 mph (40-145 km/h).
- It is within a certain period of time after the system determines that the vehicle has departed from the lane.
- The target enters the operating range of the Lane-Change Side function.
- Driving on a straight road.

Emergency Steering



OLQ2A005009

(1) **Emergency Steering**

Emergency Steering can alert you with Emergency Steering warning light blinking ( ), a warning message, an audible warning, and steering wheel vibration.
The warning light on the outside rearview mirror appears when a vehicle is detected in the right or left lane from the rear. Emergency Steering may activate to avoid a collision.
Emergency Steering may activate under the following conditions:

- Your speed is approximately 25-90 mph (40-145 km/h).
- Speed of the side vehicle or motorcycle: While driving
- It is within a certain period of time after the system determines that the vehicle has departed from the lane.
- The target enters the operating range of the Lane-Change Side function.
- Driving on a straight road
- Both lane markings are detected.
- There is no risk of a secondary collision.

⚠ WARNING

- Lane-Change Side function does not operate if the oncoming vehicle is stopped.
- These functions do not work when a car or motorcyclist in the next lane is stationary.
- The front-side and rear-side radar detection range is based on the width of standard roads. On narrow roads, warnings may be triggered by a vehicle or motorcyclist driving in the next lane. Conversely, on wide roads, radars may fail to recognize a vehicle or motorcyclist driving in the next lane.
- The Lane-Change Side function deactivates in the following situations:
  - You drive more than a certain distance into the next lane.
  - You move away from the direction where there is a risk of collision.
  - You turn the steering wheel rapidly.
  - You engage the brake pedal.
  - Forward Collision-Avoidance Assist activates.
- After the Lane-Change Side function is triggered or after you change lanes, be sure to move into the center of the lane. If you continue to drive along the edge of the lane, the Lane-Change Side function may deactivate.

WARNING

If an additional accident risk is detected due to Emergency Steering, only a Collision Warning may be issued to notify you of the danger.

Evasive Steering Assist function (if equipped)

The Evasive Steering Assist function for Forward Collision-Avoidance Assist is Emergency Steering.

Emergency Steering (Driver steering assist)



OLQ2A005009

(1) **Emergency Steering**

Emergency Steering can alert you with Emergency steering warning light blinking ( ), a warning message, an audible warning, and steering wheel vibration.
If there is a risk of a collision with another vehicle or a pedestrian, cyclist, or motorcyclist ahead of your vehicle, Emergency Steering can assist you in steering to help prevent a collision.
Emergency steering will be activated in following conditions.
Your driving speed: Approximately 25-53 mph (40-85 km/h)

Emergency Steering (Evasive steering assist)



OLQ2A005009

(1) **Emergency Steering**

Emergency Steering can alert you with Emergency steering warning light blinking ( ), a warning message, an audible warning, and steering wheel vibration.
If there is a risk of a collision with a pedestrian, cyclist, or motorcyclist ahead of your vehicle and you have already exceeded the Emergency Braking speed limit, Emergency Steering can activate

to help you avoid a collision.
Emergency Steering may activate under the following conditions:
- Your driving speed is approximately 40-47 mph (65-75 km/h).
- The pedestrian, bicyclist, or motorcycle is moving in the same or opposite direction as your vehicle.
- Both lane markings are detected.
- Driving on a straight road.
- There is no risk of a secondary collision.

WARNING
- When Emergency Steering is operating, the steering wheel may turn automatically.
- Emergency Steering automatically ends when risk factors disappear. Adjust the steering wheel as needed.
- Emergency Steering may deactivate during operation if the steering wheel is held tightly or steered in the opposite direction.
- When steering is assisted to avoid a collision with another vehicle, a pedestrian, or a cyclist, Evasive steering assist will deactivate if potential collisions are detected with other vehicles, motorcyclist, pedestrians, or cyclists.
- Evasive steering assist may not operate if there is insufficient space to avoid a collision.
- When driving at night, the performance of powered two-wheeler recognition is decreased, so the Forward Collision-Avoidance Assist system may be temporarily limited or may not work.

TIP

For more information about warning messages, refer to "Collision Warning" on page 471.

WARNING
- For your safety, change the settings only after parking the vehicle at a safe location.
- Forward Collision-Avoidance Assist does not operate in all situations and cannot avoid all collisions.
- You are responsible for controlling the vehicle. Do not depend on Forward Collision-Avoidance Assist. Maintain a safe braking distance and manually engage the brake pedal to reduce driving speed or stop the vehicle.
- Never deliberately drive toward people or objects to test Forward Collision-Avoidance Assist. It may cause serious injury or death.
- Forward Collision-Avoidance Assist may not operate if you manually brake to avoid collision.
- Depending on the road and driving conditions, Forward Collision-Avoidance Assist may warn you late or not at all.
- During Forward Collision-Avoidance Assist operation, the vehicle may stop suddenly, which can cause loose objects to shift and possibly injure passengers. Always fasten seat belts and secure loose objects.
- Forward Collision-Avoidance Assist may not display a warning message or generate an audible warning if any other function's warning message is displayed or any other function's audible warning is generated at the same time.

- You may not hear the warning sound of Forward Collision-Avoidance Assist if you are in noisy surroundings.
- Depending on road conditions and surroundings, Forward Collision-Avoidance Assist may turn OFF or operate improperly or unnecessarily.
- Emergency Braking activated by Forward Collision-Avoidance Assist may end automatically if you brake hard or turn the steering wheel sharply.

WARNING

- Your surroundings may affect the speed or detection range of Forward Collision-Avoidance Assist, and result in the function being temporarily limited or disabled.
- Forward Collision-Avoidance Assist takes into account the oncoming vehicle's direction, speed, and surroundings to judge risk.
- Forward Collision-Avoidance Assist may not activate when driving at a high speed or when there is a significant difference in speed between your vehicle and oncoming vehicles.
- If the system determines that a collision with surrounding vehicles is likely, the Lane Change Oncoming, Lane Change Side, and Evasive Steering Assist functions will provide warnings only and not steering control.

TIP

- When a collision is imminent, Forward Collision-Avoidance Assist may activate brake assist if you do not brake enough to avoid the collision.
- The images or colors may display differently depending on the specifications of the instrument cluster or theme.
- If the interior camera detects an abnormal driver condition, the Forward Collision-Avoidance Assist may activate earlier than usual. (if equipped)

Forward Collision-avoidance Assist malfunction and limitations

Forward Collision-Avoidance Assist malfunction



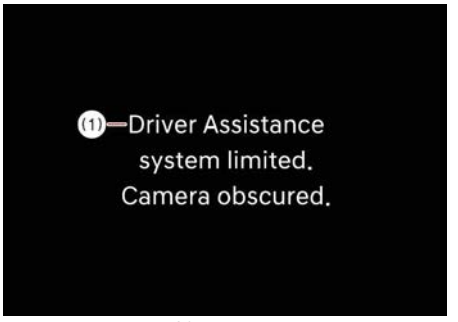
OCL4M055096N

(1) **Check Driver Assistance system**

When Forward Collision-Avoidance Assist is not working properly, the Master warning light (⚠), the Forward Safety warning light (), and the Emergency Steering warning light () appear on

the instrument cluster, along with a warning message that lasts for several seconds. Visit an authorized Kia dealer.

Forward Collision-Avoidance Assist disabled



OCL4M055097N

(1) **Driver Assistance system limited. Camera obscured.**



OCL4M055098N

(1) **Driver Assistance system limited. Radar blocked.**

When foreign material (such as snow or rain) covers the windshield where the front view camera is located, the front radar cover, the bumper, or the sensor, it can reduce the detecting performance and temporarily limit or disable Forward Collision-Avoidance Assist.
If this occurs, a warning message, the Forward Safety warning light (), the Emergency Steering warning light (), and the Master warning light () display on the instrument cluster.
Forward Collision-Avoidance Assist should operate properly when you remove foreign material (such as snow or rain) from the sensor.
If Forward Collision-Avoidance Assist still does not operate properly after you remove foreign material (such as snow or rain) from the sensor or obstructions (such as a trailer or carrier) from the rear bumper, have the vehicle inspected by an authorized Kia dealer.

⚠ WARNING

- Even when the warning message or warning light does not appear on the instrument cluster, Forward Collision-Avoidance Assist may not operate properly.
- Forward Collision-avoidance Assist may not operate properly in an area (such as, open terrain) where any objects are not detected right after you turn ON the vehicle, or when the detection sensor is blocked with foreign material right after you turn ON the vehicle.

- If the system is in a blocked or malfunctioning state, turning the engine off and on may not resolve the issue, and Forward Collision-Avoidance Assist may still not operate properly.

TIP

You can check the Forward Collision-Avoidance Assist status in the service message of the utility information view of the instrument cluster display window.

Limitations of Forward Collision-Avoidance Assist

For detailed limitations of the interior camera, refer to "Forward Attention Warning (FAW)" on page 551

The function's operational range may decrease due to the traffic ahead of or the surroundings of the vehicle.

When driving at night, the ability to detect vehicles, motorcyclists, pedestrians, and cyclists is decreased. Thus, the Forward Collision- Avoidance Assist system may temporarily be limited or not work.

If your vehicle or the oncoming vehicle is not driving straight, the Front Oncoming function warning and control may be late or may not operate.

If the angle of possible collision with the crossing vehicle is beyond a certain range, Junction Crossing warning and control may be late or may not operate.

Emergency Steering automatically ends when risk factors disappear.

Emergency Steering may deactivate during operation if the steering wheel is held tightly or steered in the opposite direction.

When steering is assisted to avoid a collision with another vehicle, a pedestrian, or a cyclist, Evasive steering assist will deactivate if collisions are expected with other vehicles, motorcyclists, pedestrians, or cyclists.

Evasive steering assist may not operate if there is insufficient space to avoid a collision.

Forward Collision-Avoidance Assist does not activate for carts, bicycles, or other objects pushed or pulled by pedestrians or cyclists.

Forward Collision-Avoidance Assist may not operate normally if there is strong electromagnetic interference.

Forward Collision-Avoidance Assist may not activate for 15 seconds after you start the vehicle or initialize the front view camera.

Forward Collision-Avoidance Assist may operate abnormally or unexpectedly in certain circumstances, including the following:

- A sensor is obscured or damaged.
- The temperature around the front-view camera is extremely high or low.
- The camera lens is obscured by a windshield tint, film, or coating, damaged glass, or objects on the glass such as a sticker or insect.
- There is moisture or ice on the windshield.
- Heavy rain, snow, or fog obscures the camera's view.
- Glare from the sun obstructs the front view camera's field of view.
- Light reflects off of a wet road surface, such as a puddle.
- There is an object on the instrument panel.
- Your vehicle's surroundings are excessively bright or dark.
- The light changes suddenly, such as when you enter or exit a tunnel.

- You are in dark conditions and your vehicle's headlights are not on or are obscured.
- Another vehicle or a motorcyclist, pedestrian, or cyclist is only partially visible.
- The vehicle ahead is a bus, heavy truck, or vehicle with bulky cargo or a trailer.
- The vehicle or motorcyclist ahead does not have tail lights or has an unusual tail light configuration.
- If the ground clearance of the vehicle in front is low or high
- A vehicle, motorcyclist, pedestrian, or cyclist suddenly crosses ahead of your vehicle.
- The front radar sensor is damaged or out of position.
- The temperature near the front radar is high or low.
- You are driving in areas where there are few vehicles or structures, such as a desert or meadow.
- You are driving near areas with a lot of metal, such as a construction zone, railroad, or road with metal plates.
- The shadow is on the lane marking by a median strip, trees, guardrail, noise barriers, etc.
- Your view of the vehicle or motorcyclist ahead is suddenly obscured.
- The vehicle or motorcyclist ahead suddenly changes lanes or reduces speed.
- The vehicle ahead is covered in snow.
- You are departing or returning to the lane.
- If your driving is unstable.
- You are driving in a traffic circle and the curvature of the road prevents detection of the vehicle or motorcyclist ahead.
- You are driving on a steep hill, which puts the vehicle or motorcyclist ahead out of range of your vehicle's camera or radar.

The following illustration shows the kinds of images of a vehicle, motorcyclist, pedestrian, or cyclist that the front view camera and front radar can detect:



OMQ4A055001

The system may not detect a pedestrian or cyclist ahead that is:

- Leaning over or not walking fully upright.
- Wearing clothing or equipment that makes them difficult to detect.
- Moving very quickly ahead of your vehicle.
- Short or crouching.
- Moving opposite of the flow of traffic or having impaired mobility.
- Part of a large crowd ahead of your vehicle.
- Difficult to distinguish from their surroundings.

The system may not detect a pedestrian, motorcyclist or cyclist ahead when you are driving:

- Through steam, smoke, or shadow.
- Driving through a tunnel or steel bridge
- In large areas where there are few vehicles or structures, such as a desert, field, or suburban area.
- In a parking lot.
- Through a tollgate, construction area, or rough or bumpy terrain.
- Near areas with a lot of metal, like a construction zone or railroad.
- On a steep or curving road.
- Through a roadside with trees or street lights.
- Along a narrow road with dense trees or overgrowth.
- Through electromagnetic waves, such an area with strong radio waves or electrical noise.
- A snow chain, spare tire, or wheel of a different size is installed

Limitations of Basic function, Junction Turning function, and Direct Oncoming function

The Forward Collision-Avoidance Assist may operate abnormally in the following situations:

- When vehicles ahead, bicyclists, or pedestrians are outside the operating range.

The Junction Turning function may not operate normally in the following situations:

- When oncoming vehicles, motorcycles, or bicyclists are outside the operating range or only partially detected.

The Direct Oncoming function may not operate normally in the following situations:

- When oncoming vehicles or motorcycles are outside the operating range.
- When traveling in the same direction.

Junction Crossing, Lane-Change Oncoming, Lane-Change Side, Evasive Steering Assist function (if equipped)

The Junction Crossing, Lane-Change Oncoming, Lane-Change Side, and Evasive Steering Assist functions may operate abnormally or unexpectedly in certain circumstances, including the following:

- The temperature around the front or rear side radar is too high or too low
- You have installed a trailer or carrier near the rear corner radar.
- The front or rear corner radar is covered with snow, rain, dirt, and so on.
- The bumper around front corner or rear corner radar is covered with objects, such as a bumper sticker, bumper guard, bike rack, etc.
- The bumper near the front or rear corner radar is damaged, or the radar is out of position.
- The front or rear corner radar is blocked by other vehicles, walls, or pillars.
- You are driving on a highway ramp.
- You are driving on a road with a high guardrail or wall.
- Another vehicle or motorcyclist drives very close behind or passes close by your vehicle.
- Another vehicle or motorcyclist passes you at a very high speed.
- Your vehicle passes another vehicle or motorcyclist.
- You are accelerating at the same rate as a vehicle or motorcycle in the next lane.
- A vehicle or motorcycle moves into or out of the lane next to you, or you move into the lane next to another vehicle.
- The function detects a motorcycle or bicycle.
- The function detects a flat trailer.

- The function detects a large vehicle, such as a bus or truck.
- The function detects a small moving obstacle, such as a pedestrian, animal, shopping cart, or stroller.
- The function detects a shorter vehicle, such as a sports car.
- The lane is difficult to see due to foreign material, such as rain, snow, dust, sand, oil and water puddles
- Lane markings are obscured or not distinct from the road.
- Adjacent lanes end or lane markings merge together.
- There are more than 2 lane markings on the road.
- Lane markings are complicated or otherwise affected by roadwork.
- There are road markings, such as zigzag lanes, crosswalk markings and road signs
- The lane suddenly disappears, such as at an intersection.
- The lane is very wide or narrow.
- The vehicle ahead is obscuring the lane markings.
- You are driving very close to the vehicle ahead.

Limitations of Junction Crossing function

The Junction Crossing function may not operate normally in the following situations:

- When oncoming vehicles or motorcycles are outside the operating range.
- When the target vehicle is moving faster than your vehicle.

Limitations of Lane-Change Oncoming function, Lane-Change Side function

The Lane-Change Oncoming function and Lane-Change Side function may not operate normally in the following situations:

- When using these functions may create a risk of a secondary collision.

Limitations of Evasive Steering Assist function

The Evasive Steering Assist function may not operate normally in the following situations:

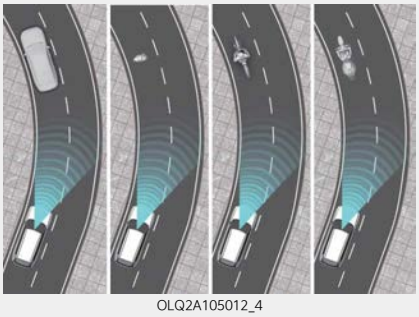
- When pedestrians or bicyclists are outside the operating range.
- When pedestrians or bicyclists are moving laterally.
- When pedestrians or bicyclists are within the operating range but there is insufficient space to perform evasive steering.
- When using Evasive Steering Assist may create a risk of a secondary collision.

TIP

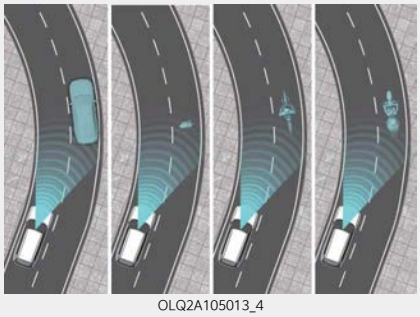
For more information about the limitations of detecting rear corner vehicles and cautions regarding the rear corner sensor, refer to "Blind-spot Collision-avoidance Assist (BCA)" on page 508.

WARNING

- Driving on a curved road



OLQ2A105012_4



OLQ2A105013_4

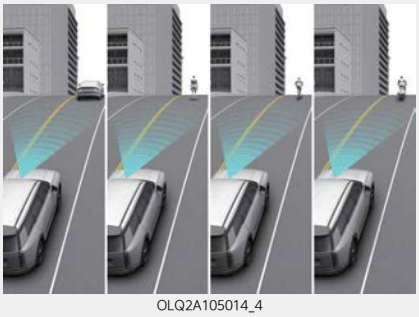
Forward Collision-Avoidance Assist may not detect other vehicles, motorcyclists, pedestrians, or cyclists ahead of you when you drive on curved roads. This may result in no warning, braking assist, or steering assist when needed.

When driving on a curve, you must maintain a safe braking distance and, if necessary, steer the vehicle and engage the brake pedal to reduce your speed.

Forward Collision-Avoidance Assist may detect a vehicle, motorcyclist, pedestrian, or cyclist in the adjacent lane or outside of the lane when you drive on a curved road.

If this occurs, Forward Collision-Avoidance Assist may unnecessarily warn you and control the braking or steering. Always monitor traffic conditions.

- Driving on an incline



OLQ2A105014_4

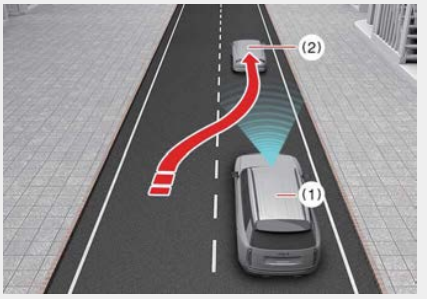
Forward Collision-Avoidance Assist may not detect other vehicles, motorcyclists, pedestrians, or cyclists ahead of you when you drive uphill or downhill, and adversely affect sensor performance.

The function may not help with warning, braking, or steering when necessary.

Also, Emergency Braking may activate if the function suddenly detects a vehicle, motorcyclist, pedestrian, or cyclist ahead.

Always keep your eyes on the road and steer your vehicle and engage the brake pedal to reduce your driving speed and maintain safe following and braking distances.

- Changing lanes



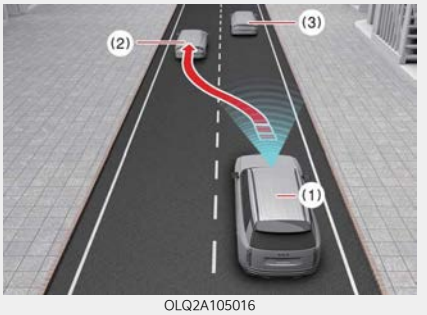
OLQ2A105015

(1) Your vehicle

(2) Lane changing vehicle or motorcyclist

When a vehicle or motorcyclist (2) moves into your lane from an adjacent lane, it will not be detected until it is within the sensor's range.

Forward Collision-Avoidance Assist may not immediately detect a vehicle or motorcyclist when it changes lanes abruptly. In this case, you must maintain a safe braking distance and, if necessary, steer your vehicle and engage the brake pedal to reduce your speed.



OLQ2A105016

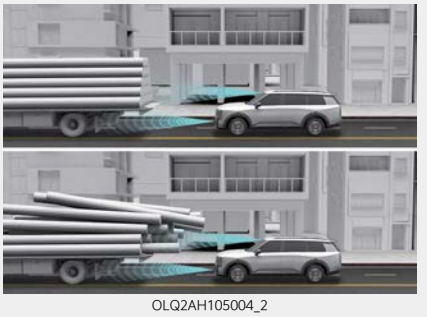
(1) Your vehicle

(2) Lane changing vehicle or motorcyclist

(3) Same lane vehicle

When a vehicle (2) ahead of you merges into another lane, Forward Collision-Avoidance Assist may not immediately detect a vehicle or motorcyclist (3) that is now ahead of you. In this case, you must maintain a safe braking distance and, if necessary, steer your vehicle and engage the brake pedal to reduce your speed.

- Detecting a vehicle



OLQ2AH105004_2

If the vehicle ahead of yours has cargo extending backward from the cab or high ground clearance, pay special attention. Forward Collision-Avoidance Assist may not be able to detect the cargo extending from the vehicle. In this case, you must maintain a safe braking distance from the rearmost object and, if necessary, steer your vehicle and engage the brake pedal to reduce your speed.

WARNING

- When you are towing a trailer or another vehicle, turn OFF Forward Collision-Avoidance Assist for safety reasons.
- Forward Collision-Avoidance Assist may activate if it detects objects similar to vehicles, motorcyclists, pedestrians, or cyclists.
- Forward Collision-Avoidance Assist does not activate for carts, bicycles, or other objects pushed or pulled by pedestrians or cyclists.
- Forward Collision-Avoidance Assist may not operate normally if there is strong electromagnetic interference.
- Forward Collision-Avoidance Assist may not activate for 15 seconds after you start the vehicle or initialize the front view camera.

TIP

For more information about the limitations of detecting rear corner vehicles and cautions regarding the rear corner sensor, refer to "Blind-spot Collision-avoidance Assist (BCA)" on page 508.

This device complies with Part 15 of the FCC rules.

Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. this device must accept any interference received, including interference that may cause undesired operation.

TIP

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Lane Keeping Assist (LKA)

When you drive over a certain speed, Lane Keeping Assist can detect lane markings or road edges. Lane Keeping Assist may assist with steering to prevent the vehicle from leaving its lane, and may warn you if your vehicle leaves the lane without you using the turn signal.

Detection sensor

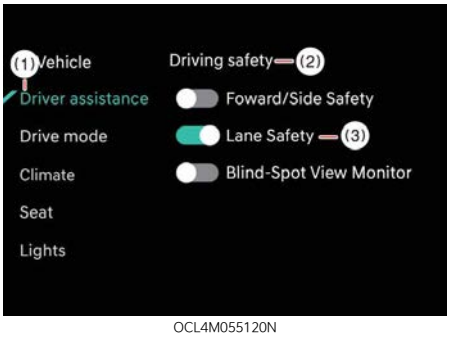
Please refer to "Detecting sensor(s)" on page 461 for the applicable sensors and their locations. The front view camera can detect lane markings or road edges.

TIP

For more information about the front view camera, refer to "Forward Collision-avoidance Assist (FCA) (Sensor Fusion)" on page 464.

Lane Keeping Assist settings

Lane Safety



OCL4M055120N

(1) **Driver Assistance**
(2) **Driving Safety**
(3) **Lane Safety**

While the vehicle is ON, tap **Setup** > **Vehicle** > **Driver Assistance** > **Driving Safety** on the infotainment system screen to change the Lane Safety settings.

Lane Safety: When a potential lane departure is detected, the system assists with steering to prevent you from leaving the lane. If you leave the lane, the system alerts you with an audible sound and steering wheel vibration. If you deselect Lane Safety, the indicator light ( ) turns OFF.

WARNING

You should always be aware of the surroundings and steer the vehicle if Lane Safety is deselected.

NOTE

- If you press and hold the Lane Driving Assist button ( ) for more than 2 seconds to turn off Lane Keeping Assist, the Lane Safety setting will also be turned off.

- Even if you turn the engine off and on, the Lane Keeping Assist setting will remain the same as it was before the engine was turned off.

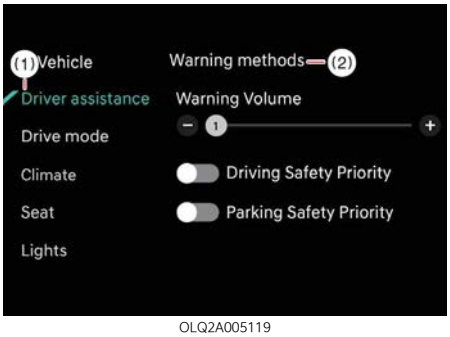
CAUTION

- Towing a trailer or mounting a carrier may reduce control stability. If necessary, disable the function and always drive with caution.
- Do not use the system when towing another vehicle or when other equipment that affects sensor operation or vehicle balance is installed, as it may not operate properly.
- When connecting a trailer or carrier, set the trailer or carrier menu (if equipped). If the driver manually sets the menu or the trailer or carrier connection is automatically recognized through genuine parts, the functions of the driver assistance system may be limited. Please refer to "Driver assistance system limitations" on page 653 and always drive with caution.

TIP

Pressing the Lane Driving Assist button ( ) turns OFF Lane Keeping Assist and deactivates Lane Safety.

Warning Methods



OLQ2A005119

(1) **Driver Assistance**
(2) **Warning Methods**

To change the Warning Methods settings while the vehicle is ON, tap **Setup > Vehicle > Driver Assistance > Warning Methods** on the infotainment system screen. You can change the following settings:

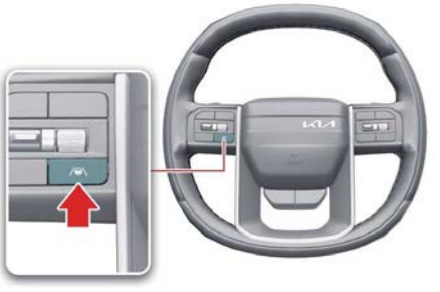
- **Warning Volume**: Adjusts the volume of the warning sound.
- **Haptic Warning**: Turns ON the steering wheel vibration warning.
- **Lane Safety Warning Sound**: Turns OFF the Lane Safety Warning Sound, when Haptic Warning is ON.
- **Driving Safety Priority**: Lowers all other audio volumes when the Driving Safety system sounds a warning.

TIP

- Your **Warning Methods** settings may apply to the **Warning Methods** of other driver assistance systems.
- **Warning Methods** maintain their last settings when you turn OFF and restart the vehicle.
- The **Warning Methods** setting menu may not be available on all vehicles.
- The Lane Safety Warning Sound can be set when both the Warning Volume and the Haptic Warning are on.

Lane Keeping Assist operation

Turning Lane Keeping Assist ON and OFF



OLQ2A105018

To turn Lane Keeping Assist ON or OFF, press and hold for more than 2 seconds the Lane Driving Assist ( ) button on the steering wheel while the vehicle is ON.
The gray or green indicator ( ) appears on the instrument cluster if you turn ON Lane Keeping Assist.

TIP

- If the operating conditions of Lane Keeping Assist are not met, the gray indicator ( ) appears on the instrument cluster.
- If the operating conditions of Lane Keeping Assist are met, the green indicator ( ) appears on the instrument cluster.

Automatic Activation

Lane Keeping Assist automatically turns on in the following situations:
- When both Lane Following Assist (LFA) and Smart Cruise Control (SCC) are activated.
- When Highway Driving Assist (HDA) is activated. (if equipped)

If Lane Keeping Assist is automatically turned on under these conditions, attempting to turn off Lane Keeping Assist will display a warning, and Lane Keeping Assist will not turn off.
To turn off Lane Keeping Assist, temporarily deactivate Smart Cruise Control or turn off the driving assistance functions by pressing the Lane Keeping Assist or Driving Assist button, then try again.

WARNING

Lane Keeping Assist will return to the previously set state when the driving assistance functions are turned off.

Warning and control

The Lane Keeping Assist function has the following warnings and controls:

- Lane Departure Warning
- Lane Keeping Assist

Lane Departure Warning (left)



OLQ2A005010

Lane Departure Warning (right)



OLQ2A005011

Lane Departure Warning

The Lane Departure Warning is issued through a green indicator ( ) light on the instrument cluster, a blinking indicator in the direction you departed from, an audible warning sound, and steering wheel vibration.

Lane Departure Warning can activate in the following conditions.

- Your driving speed: Approximately 40-120 mph (60-200 km/h)
- When road conditions are suitable for operation (lane width, curvature, etc.)

Lane Keeping Assist

The green indicator ( ) light blinks on the instrument cluster, and the steering wheel makes adjustments to keep the vehicle inside the lane.

Lane Keeping Assist can activate in the following conditions.

- Your driving speed: Approximately 40-120 mph (60-200 km/h)
- When road conditions are suitable for operation (lane width, curvature, etc.)

WARNING

Lane Keeping Assist will not operate when the vehicle speed is below 35 mph (55 km/h) or exceeds 130 mph (210 km/h).

Hands-off warning



OCL4M055099N

(1) **Keep hands on steering wheel**

If you take your hands off the steering wheel for several seconds, a warning message appears on the instrument cluster, and an audible warning sounds in stages.
The Hands-off warning will stop when the driver grips the steering wheel.

WARNING

- Steering assistance may not activate if you hold the steering wheel very tight or steer over a certain degree.
- Lane Keeping Assist does not operate at all times. It is your responsibility to safely steer the vehicle and maintain the vehicle in its lane.
- The hands-off warning message may appear late, depending on road conditions. Always keep your hands on the steering wheel while driving.
- If you wear gloves or hold the steering wheel very lightly, the hands-off warning message may appear because Lane Keeping Assist may not recognize that you have your hands on the steering wheel.
- If you attach objects to the steering wheel, the hands-off warning may not work properly.

TIP

- Even when the steering is assisted by Lane Keeping Assist, you may still control the steering wheel.
- The steering wheel may feel heavier or lighter than usual when the steering wheel is being assisted by Lane Keeping Assist.
- If the interior camera detects an abnormal driver condition, Lane Keeping Assist may activate earlier than usual. (if equipped)
- In the following situations, the steering wheel may feel heavier for safety:
  - When the driver is inattentive, such as not looking at the road ahead or in the direction of lane departure, or when a Hands-Off warning is triggered.
  - When a vehicle is approaching in the same direction in the lane toward which departure is occurring.
  - When a vehicle is approaching from the opposite direction in the lane toward which departure is occurring (across the center line).
- When the lane is recognized, the lane color in the cluster changes from gray to white.

Lane undetected



OLQ2A005014

Lane detected



OLQ2A005015

- The lanes displayed in the cluster may differ from the actual lanes.
- For more details on cluster settings, refer to "LCD display" on page 163.
- If you select Highway Lane Change Assist, the green lane appears on the instrument cluster (if equipped).
- The images or colors may display differently depending on the specifications of the instrument cluster or theme.

Lane Keeping Assist malfunction and limitations

Lane Keeping Assist malfunction

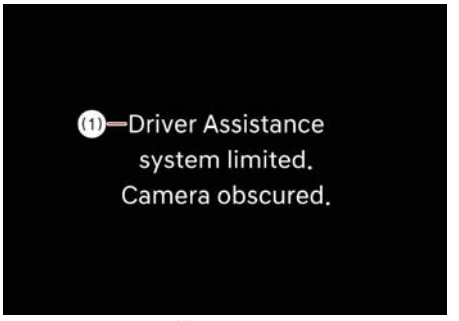


OCL4M055096N

(1) **Check Driver Assistance system**

When Lane Keeping Assist is not working properly, the Master warning light ( ), and the yellow indicator ( ) light appear on the instrument cluster, along with a warning message.
If a warning message appears, have the Lane Keeping Assist function inspected by an authorized Kia dealer.

Lane Keeping Assist disabled



OCL4M055097N

(1) **Driver Assistance system limited. Camera obscured.**

If foreign material (such as snow or rain) obscure the sensors or the windshield where the front view camera is located, it may affect detection and render Lane Keeping Assist temporarily limited or disabled.
In this case, a warning message displays with the Master warning light (⚠) and the Lane safety warning lights (🚗) on the instrument cluster. This is normal operation.
Lane Keeping Assist should operate properly after cleaning snow, rain or foreign materials. Always keep it clean.
If Lane Keeping Assist still does not operate properly after you clean foreign materials (such as snow or rain) from the sensor or remove obstructions (such as a trailer or carrier) from the rear bumper, have the vehicle inspected by an authorized Kia dealer.

WARNING

- Even when a warning message or warning light does not appear on the instrument cluster, Lane Keeping Assist may not operate properly.
- Even after you start the vehicle again, Lane Keeping Assist may not function properly if the obstruction or malfunction persists.

TIP

The warning information can be found in the service messages of the utility information view on the cluster display.

Limitations of Lane Keeping Assist

Lane Keeping Assist may not operate properly or may operate unexpectedly in certain circumstances, including the following

- The lane is contaminated or difficult to detect because:
  - The lane markings (or road edges) are covered with rain, snow, dirt, oil, and so on.
  - When the road surface is wet or the lane and road colors are not sufficiently distinguishable.
  - There are markings (or road edges) near the lane, or the markings (or road edges) look similar to lane markings.
  - The lane marking (or road edge) is indistinct or damaged.

  - When the shadow of objects around the road (median conditions, crash barriers, noise barriers, surrounding bushes, etc.) or the shadow of a vehicle covers the lane.
  - When a long object is lying on the road.
  - When there are longitudinal cracks on the road.
- The lane number increases or decreases, or the lane markings (or road edges) cross.
- There are more than two lane markings (or road edges).
- 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 crosswalk markings or road signs.
- The lane suddenly disappears, such as at an intersection.
- The lane or road 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, and so on.
- You are driving extremely close to the vehicle ahead, or it is covering the lane marking (or road edge).
- When driving a sharp curved road
- When driving in a bus-only lane or in the lane immediately to the left or right of a bus-only lane

TIP

- For more information about the limitations of the front view camera, refer to "Forward Collision-avoidance Assist (FCA) (Sensor Fusion)" on page 464.
- For more information about the limitations of the interior camera, refer to "Forward Attention Warning (FAW)" on page 551.

WARNING

- You are responsible for driving safely and controlling the vehicle. Do not rely on Lane Keeping Assist and drive dangerously.
- Lane Keeping Assist may stop operating or may not work properly depending on road conditions and surroundings. Always be cautious while driving.
- Refer to "Lane Keeping Assist malfunction and limitations" on page 498 if the lane is not detected properly.
- When you are towing a trailer or another vehicle, turn OFF Lane Keeping Assist for safety reasons.
- If the vehicle is driven at high speed, the steering wheel will not be controlled. The driver must always follow the speed limit.
- Lane Keeping Assist may not display a warning message or generate an audible warning if any other function's warning message is displayed or audible warning is generated.
- You may not hear the warning sound of Lane Keeping Assist if the surroundings are noisy. Adjust the vehicle volume appropriately and always pay attention to the surroundings.
- If you attach objects to the steering wheel, steering may not be assisted properly.
- Lane Keeping Assist may not operate for approximately 15 seconds after the vehicle is started or the front view camera is initialized.
- Lane Keeping Assist will not operate when:
  - When the turn signal is turned on or within a certain period of time after it is turned off

- The vehicle is not driven in the center of the lane when Lane Keeping Assist is turned on or right after changing a lane.
- ESC (Electronic Stability Control) or VSM (Vehicle Stability Management) is activated.
- The vehicle turns quickly on a curved road.
- The vehicle changes lanes suddenly.
- The vehicle brakes suddenly.

• Loading freight exceeding the maximum load or placing freight unevenly may impede safe driving. This may also prevent Lane Keeping Assist from operating properly.

Lane Following Assist (LFA)

Lane Following Assist can detect lane markings or a vehicle ahead on the road and center your vehicle in the lane.

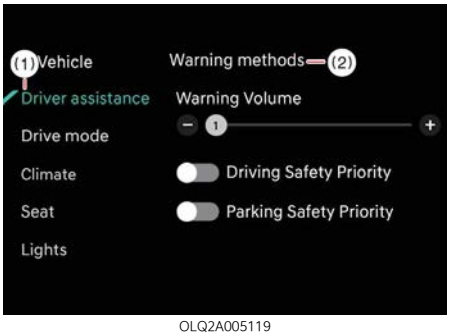
Detection sensor

Please refer to "Detecting sensor(s)" on page 461 for the applicable sensors and their locations. The front view camera detects lane markings and vehicles ahead.

> **TIP**
>
> For more information about the front view camera, refer to "Forward Collision-avoidance Assist (FCA) (Sensor Fusion)" on page 464.

Lane Following Assist settings

Warning Methods



OLQ2A005119

(1) **Driver Assistance**
(2) **Warning Methods**

To change the Warning Methods settings while the vehicle is ON, tap **Setup > Vehicle > Driver Assistance > Warning Methods** on the infotainment system screen. You can change the following settings:

- **Warning Volume**: Adjusts the volume of the warning sound.
- **Driving Safety Priority**: Lowers all other audio volumes when the Driving Safety system sounds a warning.

> **CAUTION**
>
> - Towing a trailer or mounting a carrier may reduce control stability. If necessary, disable the function and always drive with caution.
> - Do not use the system when towing another vehicle or when other equipment that affects sensor operation or vehicle balance is installed, as it may not operate properly.

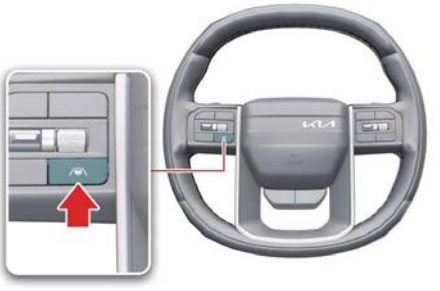
- When connecting a trailer or carrier, set the trailer or carrier menu (if equipped). If the driver manually sets the menu or the trailer or carrier connection is automatically recognized through genuine parts, the functions of the driver assistance system may be limited. Please refer to "Driver assistance system limitations" on page 653 and always drive with caution.

TIP

- Your **Warning Methods** settings may apply to the **Warning Methods** of other driver assistance systems.
- **Warning Methods** maintain their last settings when you turn OFF and restart the vehicle.
- The **Warning Methods** setting menu may not be available on all vehicles.

Lane Following Assist operation

Turning Lane Following Assist ON or OFF



OLQ2A105018

To turn Lane Following Assist ON, briefly press the **Lane Following Assist** button on the steering wheel while the vehicle is ON. The gray or green ( ) indicator light appears on the instrument cluster.

To turn Lane Following Assist OFF, press the **Lane Following Assist** button again.

Warning and control

TIP

The following warning messages appear on the instrument cluster:

- **Keep hands on steering wheel**
- **Lane Following Assist Canceled**

For more details, refer to the warning and control section of the function.

Lane Following Assist



OLQ2AH005039

When both lanes or the preceding vehicle within the lane detected (if a lane is not detected during control based on both lanes) are recognized and the vehicle speed is below the operating speed, the system assists steering to keep the vehicle centered in the lane. An indicator ( ) will light up green on the instrument cluster.

- When both lanes are recognized: 0-120 mph (0-200 km/h)
- When a preceding vehicle is recognized: 0-45 mph (0-75 km/h)

> **TIP**
>
> When the steering wheel is not being assisted, the white indicator light ( ) blinks and changes to gray.

Hands-off warning



OCL4M055099N

(1) **Keep hands on steering wheel**

When you take your hands off the steering wheel for a few seconds, a warning message appears and an audible warning sounds in stages.

- First stage: Warning message
- Second stage: Warning message (red steering wheel) and audible warning



OCL4M055100N

(1) **Lane Following Assist deactivated**

If the driver continues not to hold the steering wheel, a Lane Following Assist deactivation warning will be displayed along with an audible alert, and Lane Following Assist will automatically turn off.

If Smart Cruise Control is active and the driver does not respond to the Hands-Off second stage warning message, the Emergency Stop function will be activated. For more details, refer to "Emergency Stop (ES)" on page 576.

The Hands-Off warning will stop when the driver grips the steering wheel.

WARNING

- Lane Following Assist may not assist with steering if you hold the steering wheel very tight or steer it over a certain degree.
- Lane Following Assist does not operate at all times. It is your responsibility to safely steer the vehicle and stay in your lane.
- The hands-off warning message may appear late depending on road conditions. Always keep your hands on the steering wheel while driving.
- If you attach objects to the steering wheel, the hands-off warning may not work properly.
- If you wear gloves or hold the steering wheel lightly, Lane Following Assist may not detect your hands on the steering wheel and may display the hands-off warning.
- When Lane Following Assist reaches the system limit, the indicator will blink white and an audible warning will sound.
  - System limit: When the driver releases the steering wheel or the vehicle departs from the lane while Lane Following Assist is active.
- Lane Following Assist may not operate or may operate abnormally when navigating sharp curved roads.

TIP

- When both lane markings are detected, the lane lines on the instrument cluster change from gray to white.

Lane undetected



OLQ2AH005040

Lane detected



OLQ2AH005039

- The images or colors may display differently depending on the specifications of the instrument cluster or theme.
- If lane markings are not detected, steering wheel assistance by Lane Following Assist may be limited depending on whether a vehicle is ahead or on the driving conditions of the vehicle.
- You can control the steering wheel even when Lane Following Assist assists with steering.
- The steering wheel may feel heavier or lighter than usual when Lane Following Assist assists with steering.
- For more details on instrument cluster settings, refer to "Instrument cluster" on page 147.
- The lanes displayed in the cluster may differ from the actual lanes.

Lane Following Assist malfunction and limitations

Lane Following Assist malfunction



OCL4M055096N

(1) **Check Driver Assistance system**

When Lane Following Assist is not working properly, the Master warning light (⚠) appears on the instrument cluster, along with a warning message that lasts for several seconds.
If the warning message and Master warning light appear on the instrument cluster, have the Lane Following Assist inspected by an authorized Kia dealer.

TIP

You can check the Lane Following Assist warning message in the utility information view of the instrument cluster display window.

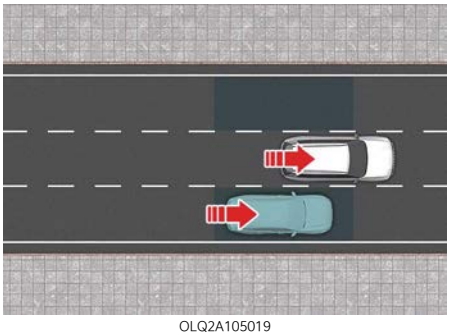
Limitations of Lane Following Assist

WARNING

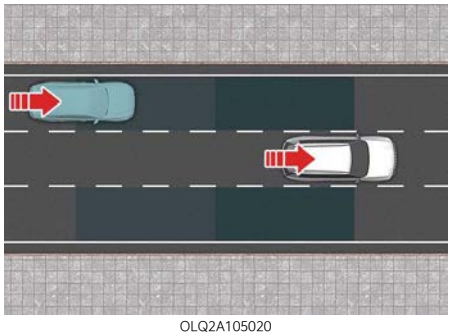
- For more information about Lane Following Assist warnings, refer to "Lane Keeping Assist (LKA)" on page 493.
- Loading freight exceeding the maximum load or placing freight unevenly may undermine driving safety. This may also prevent Lane Following Assist from operating properly.

Blind-spot Collision-avoidance Assist (BCA)

When driving above a certain speed, if a vehicle is detected in the rear-side warning area and a collision risk is assessed, the system alerts the driver with a warning light and sound. Additionally, if the risk of collision increases when moving forward, the system assists with braking to help avoid a collision.
The system also detects vehicles in the blind spot and provides a warning.

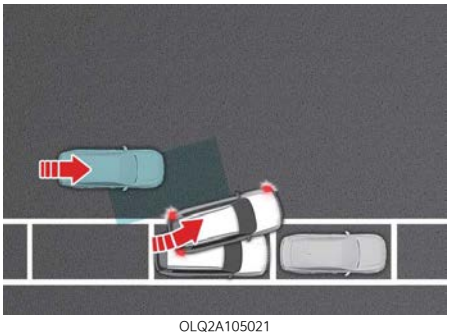


OLQ2A105019



OLQ2A105020

Blind-Spot Collision-avoidance Assist can help detect and inform you of a vehicle that is in your blind spot or approaching at a high speed from your blind spot area.



OLQ2A105021

When you are pulling out of a parking space, if Blind-Spot Collision-avoidance Assist determines that there is a collision risk with an approaching vehicle in your blind spot, it can help you avoid a collision by applying the brakes.

WARNING

- The detecting range may vary depending on the speed of your vehicle. Even if there is a vehicle in the blind spot area, Blind-Spot Collision-avoidance Assist may not warn you when you pass other vehicles by at high speeds.
- The timing of the warning may vary if a vehicle is approaching at a high speed.

Detection sensor

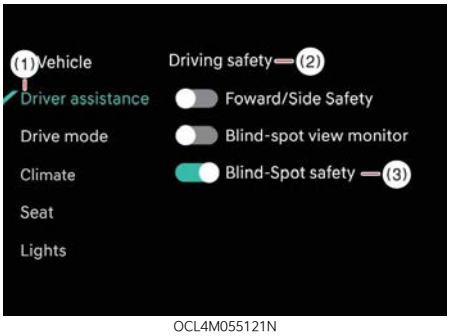
Please refer to "Detecting sensor(s)" on page 461 for the applicable sensors and their locations.

⚠ WARNING

- Never disassemble or damage the detection sensor assembly.
- If the detection sensor or the area near the sensor has been damaged or impacted in any way, Blind-Spot Collision-avoidance Assist may not operate properly, even if a warning message does not appear on the instrument cluster. Have the function inspected by an authorized Kia dealer.
- If the detection sensors have been replaced or repaired, have the vehicle inspected by an authorized Kia dealer.
- If you paint or change the bumper where the rear corner radar sensors are mounted, the Blind-Spot Collision- avoidance Assist may not function properly. Use only Kia Genuine Parts or those of an equivalent standard with proven quality and performance to repair or replace the bumper.
- Do not apply a license plate frame, or objects such as a bumper sticker, film, or bumper guard, near the rear corner radar.
- Blind-Spot Collision-avoidance Assist may not work properly if the bumper is replaced, the surroundings of the rear corner radar are damaged, or paint is applied.
- If you install a trailer, carrier, and so on, it may adversely affect the performance of the rear corner radar, or Blind-Spot Collision-avoidance Assist may not operate.

Blind-Spot Collision-avoidance Assist settings

Blind-Spot Safety



OCL4M055121N

(1) **Driver Assistance**
(2) **Driving Safety**
(3) **Blind-Spot Safety**

While the vehicle is ON, tap **Setup > Vehicle > Driver Assistance > Driving Safety > Blind-Spot Safety** on the infotainment system screen.

Blind-Spot Safety: Blind-Spot Collision-Avoidance Assist warns you and assists with braking depending on the collision risk levels.



OCL4M055101N

(1) **Blind-Spot Safety System is Off**

When you activate Blind-Spot Collision-Avoidance Assist or restart the vehicle with this function activated, the warning light on the outside rearview mirror appears for approximately 3 seconds. When you restart the vehicle without Blind-Spot Collision-Avoidance Assist activated, a warning message appears on the instrument cluster.

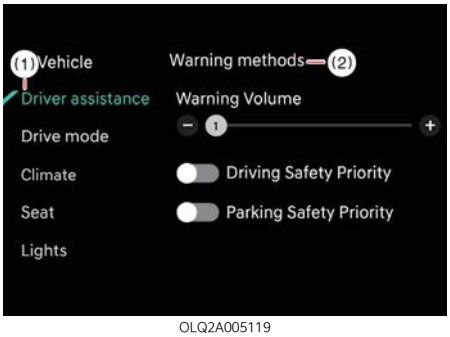
TIP

If you turn OFF Blind-Spot Safety, always be aware of your surroundings and drive safely.

CAUTION

- Do not use the system when towing a trailer or another vehicle, or when a carrier or other equipment that may affect sensor performance or vehicle balance is installed. The system may not operate properly.
- When connecting a trailer or carrier, set the trailer or carrier menu (if equipped). If the driver manually sets the menu or the trailer or carrier connection is automatically recognized through genuine parts, the functions of the driver assistance system may be limited. Please refer to "Driver assistance system limitations" on page 653 and always drive with caution.

Warning Methods



OLQ2A005119

(1) **Driver Assistance**

(2) **Warning Methods**

To change the Warning Methods settings while the vehicle is ON, tap **Setup > Vehicle > Driver**

Assistance > Warning Methods on the infotainment system screen. You can change the following settings:

- **Warning Volume**: Adjusts the volume of the warning sound.
- **Haptic Warning**: Turns ON the steering wheel vibration warning.
- **Blind-Spot Safety Warning Sound**: Blind-Spot Safety Warning Sound can be turned off separately.
- **Driving Safety Priority**: Lowers all other audio volumes when the Driving Safety system sounds a warning.

TIP

- Your **Warning Methods** settings may apply to the **Warning Methods** of other driver assistance systems.
- **Warning Methods** maintain their last settings when you turn OFF and restart the vehicle.
- The setting menu may not be available for your vehicle depending on your vehicle features and specifications.

Blind-Spot Collision-avoidance Assist operation

Blind-Spot Collision-avoidance Assist operates as follows:

- Collision Warning (while driving)
- Collision-avoidance Assist (while departing)

Collision Warning (while driving)



OLQ2A105022

The warning light on the instrument cluster, outside rearview mirror, and head-up display (if equipped) appear when a vehicle in either of the surrounding lanes is detected from the rear.
A vehicle is detected in the following conditions:

- Your speed is above 12 mph (20 km/h).
- The speed of the vehicle in your blind spot is above 7 mph (10 km/h).
- When the target enters the operating area of the function.

With vehicle detection in use, Collision Warning will alert you when you activate the turn signal to make a lane change while there is a car in your blind spot.

- Collision warning will alert you with the warning lights on the instrument cluster, outside rearview mirror, and heads-up display (if equipped), an audible warning, and steering wheel vibration.
- When you turn OFF the turn signal or move away from the lane, the collision warning cancels, and the function returns to vehicle detection state.

Collision Warning operates under the following conditions:

- Your speed is above 25 mph (40 km/h).
- The speed of the vehicle in your blind spot is above 7 mph (10 km/h).
- When a target enters the warning area and the turn signal is activated in the same direction.

WARNING

- The detecting range of the front or rear corner radar is determined by a standard road width. Therefore, on a narrow road, Blind-Spot Collision-Avoidance Assist may detect other vehicles 2 lanes over and warn you. In contrast, on a wide road, Blind-Spot Collision-Avoidance Assist may not be able to detect a vehicle driving in the next lane and may not warn you.
- When the hazard warning flasher is ON, the collision warning next to the turn signal will not operate.

TIP

- If the driver's seat is on the left side, the collision warning may occur when you turn left. 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 lane.
- The images or colors may display differently depending on the specifications of the instrument cluster or theme.

Collision-avoidance Assist (while departing)



OLQ2A005035

(1) **Emergency Braking**

The warning light on the outside rearview mirror, head-up display (if equipped), an audible warning, and steering wheel vibration warn you of a collision. This function assists in braking control to prevent a collision with a vehicle approaching from your blind spot.

Collision-avoidance Assist activates in the following conditions:

- Your speed is below 2 mph (3 km/h).
- The speed of the vehicle in your blind spot is above 3 mph (5 km/h).

- Gear position: Any gear other than R (Reverse) or P (Park)
- When a collision with the detected object is expected



OLQ2AH005041

(1) **Drive carefully**

When the vehicle is stopped due to Emergency Braking, a warning message appears on the instrument cluster. For your safety, engage the brake pedal immediately and check the surroundings.
Brake control ends approximately 2 seconds after Emergency Braking stops your vehicle.

⚠ WARNING

- The Collision-Avoidance Assist is deactivated in the following situations:
  - When the vehicle moves a certain distance into the adjacent lane
  - When the vehicle moves out of the direction of collision risk
  - When the steering wheel is turned sharply
  - When the brake pedal is pressed
  - When Forward Collision-Avoidance Assist is activated.
- After the Blind-Spot Collision-Avoidance Assist operates or after changing lanes, make sure to return to the center of the lane. If you continue driving close to the lane line without moving back to the center, Blind-Spot Collision-Avoidance Assist will not operate.
- Always set the Blind-spot Collision-avoidance Assist after stopping in a safe location.
- Blind-Spot Collision avoidance may not display a warning message or generate an audible warning if any other function's warning message is displayed or audible warning is generated at the same time.
- You may not hear the warning sound of Blind-Spot Collision-avoidance Assist if your surroundings are noisy. Always pay attention and keep volume within the vehicle at a moderate level.
- Blind-Spot Collision-avoidance Assist may not operate if you engage the brake pedal to avoid a collision.
- When Blind-Spot Collision-avoidance Assist is operating, the function's braking control cancels automatically when you excessively engage the accelerator pedal or sharply steer the vehicle.
- During Blind-Spot Collision-avoidance Assist operation, the vehicle may stop suddenly, injuring passengers and shifting loose objects. Always fasten the seat belts and keep loose objects secured.
- If there is a problem with Blind-Spot Collision-avoidance Assist, the vehicle's basic braking performance will operate properly.

- Blind-Spot Collision-avoidance Assist may not operate in all situations, and even if it works, may not be able to avoid collisions.
- Blind-Spot Collision-avoidance Assist may warn you late or not at all, depending on the road and driving conditions.
- You are responsible for safe operation of the vehicle. Do not rely solely on Blind-Spot Collision-avoidance Assist for driving. Always check your surroundings and drive safely.
- Never rely solely on Blind-Spot Collision-avoidance to avoid a collision with people, animals, or objects. It may cause serious injury or death.

⚠ WARNING

If the Electronic Stability Control (ESC) system is in any of the following conditions, braking control may not operate even if a warning message is displayed on the cluster.

- The ESC warning light is illuminated.
- ESC is engaged in a different function.

Blind-Spot Collision-avoidance Assist malfunction and limitations

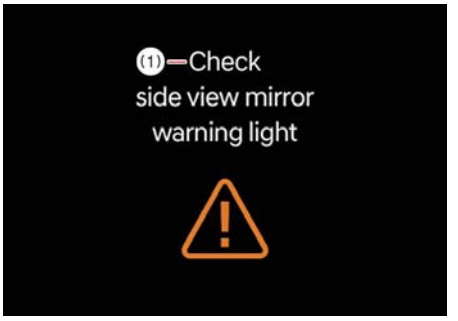
Blind-Spot Collision-Avoidance Assist malfunction



OCL4M055096N

(1) **Check Driver Assistance system.**

When Blind-Spot Collision-Avoidance Assist is not working properly, the Master warning light (⚠) appears on the instrument cluster, along with a warning message, which lasts for several seconds. You can check the warning-related functions in the Service Messages of the Utility Information View on the cluster display. If this occurs, have Blind-Spot Collision-Avoidance Assist inspected by an authorized Kia dealer.



OCL4M055102N

(1) **Check side view mirror warning light**

When the outside rearview mirror warning light is not working properly, the Master warning light (⚠) appears on the instrument cluster, along with a warning message, which lasts for several seconds. If this occurs, have Blind-Spot Collision-Avoidance Assist inspected by an authorized Kia dealer.

Blind-Spot Collision-Avoidance Assist disabled



OCL4M055098N

(1) **Driver Assistance system limited. Radar blocked.**

When foreign material (such as snow or rain) covers the rear bumper near the rear corner radar or sensor, or when you install a trailer or carrier, it can reduce the detection performance and temporarily limit or disable Blind-Spot Collision-Avoidance Assist.

A warning message and the Master warning light (⚠) display on the instrument cluster. This does not indicate a Blind-Spot Collision-Avoidance Assist malfunction.

Blind-Spot Collision-Avoidance Assist should operate properly after you remove foreign material (such as snow or rain) from the sensor or obstructions (such as a trailer or carrier) from the rear bumper then restart the vehicle. Always keep it clean.

If Blind-Spot Collision-Avoidance Assist still does not operate properly after you remove foreign material (such as snow or rain) from the sensor or obstructions (such as a trailer or carrier) from the rear bumper, have the vehicle inspected by an authorized Kia dealer.

⚠ WARNING

- Even when a warning message does not appear on the instrument cluster temporarily, Blind-Spot Collision-Avoidance Assist may not operate properly.

- Blind-Spot Collision-Avoidance Assist may not operate properly in an area (such as, open terrain) where any objects are not detected right after you turn ON the vehicle, or when the detection sensor is blocked with foreign material right after you turn ON the vehicle.

WARNING

Turn OFF Blind-Spot Collision-Avoidance Assist to install or remove a trailer, carrier, or other attachment. Turn ON Blind-Spot Collision-Avoidance Assist when you are finished.

TIP

You can check the Blind-Spot Collision-Avoidance Assist status in the service message of the utility information view of the instrument cluster display window.

Limitations of Blind-Spot Collision-Avoidance Assist

Blind-Spot Collision-Avoidance Assist may operate abnormally or unexpectedly under the following circumstances:

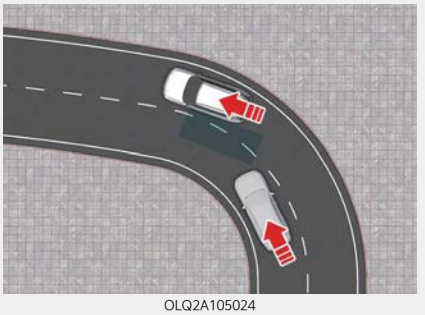
- There is inclement weather, such as heavy snow or rain.
- The detection sensor is covered with snow, rain, dirt, and so on.
- The ambient temperature around the detection sensor is very high or low.
- The detection sensor is blocked while you drive near a vehicle, pillar, or wall.
- You are driving on a highway ramp or through a tollgate.
- The pavement contains abnormally metallic components (such as debris left from subway construction).
- There are fixed objects near the vehicle, such as sound barriers, guardrails, central dividers, entry barriers, street lights, signs, tunnels, walls, and so on.
- You are driving on a narrow road with overgrown foliage.
- When driving in areas with few surrounding vehicles or structures (e.g., desert, plains, suburbs).
- You are driving on a wet road surface.
- Other vehicles are moving very close behind you or passing you.
- Other vehicles are moving very fast when passing you.
- You pass another vehicle.
- You change lanes.
- You and a vehicle next to you accelerate simultaneously.
- A vehicle in the next lane moves 2 lanes away from you, or the vehicle 2 lanes away moves to the lane next to you.
- You have installed a trailer or carrier near the rear corner radar.
- You cover the bumper near the rear corner radar with objects such as a bumper sticker, bike rack, and so on.
- The bumper near the front or rear corner radar is damaged, or the radar is out of position.
- When snow chains or wheels of a different specification are installed.
- Your vehicle height is low or high due to heavy loads, abnormal tire pressure, and so on.
- The following objects are detected:
  - A motorcycle or bicycle.
  - A vehicle towing a flat-bed trailer.

◦ A large vehicle, such as a bus or truck.
◦ A moving obstacle, such as a pedestrian, animal, shopping cart, or stroller.
◦ A shorter vehicle such as a sports car.

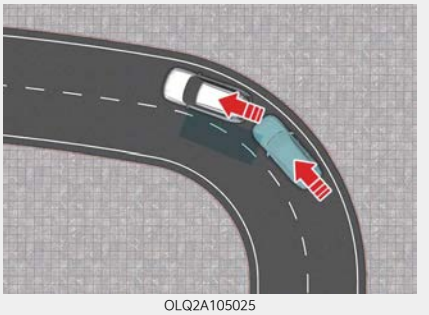
Pay extra attention. Braking control may not operate under the following conditions:
• The vehicle vibrates intensely while you drive over a bumpy road or pothole.
• You drive on a slippery surface such as snow, water, ice, and so on.
• Tire pressure is low or tires are damaged.
• The braking system has been modified.
• You steer abruptly.

⚠ WARNING

• Driving on a curved road



OLQ2A105024



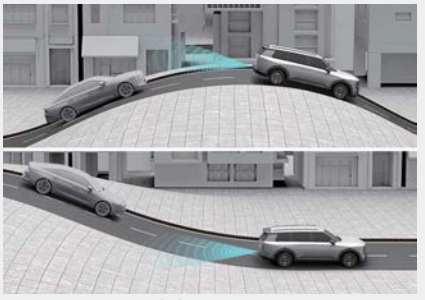
OLQ2A105025

Blind-Spot Collision-Avoidance Assist may not operate properly on a curved road. Blind-Spot Collision-Avoidance Assist may not detect the vehicle in the next lane.

Always pay attention to road and driving conditions. On curved roads, check the road conditions and traffic in surrounding lanes directly.

On curved roads, the system may incorrectly operate by detecting vehicles in the same lane. Always pay attention to road and driving conditions while driving.

• Driving on an inclined road

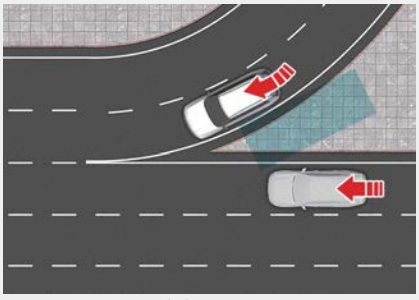


OLQ2A105026_2

Blind-Spot Collision-Avoidance Assist may not operate properly when you drive on a slope. The function may not detect the vehicle in the next lane, or may incorrectly detect the ground or a structure. Always pay attention to road and driving conditions.

The setting menu may not be available for your vehicle depending on your vehicle features and specifications.

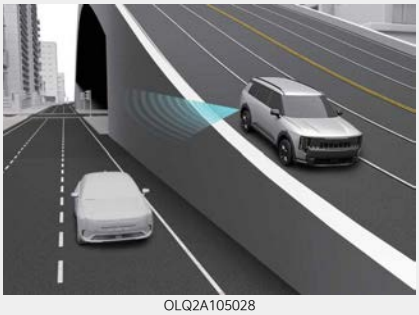
- Driving where the road is merging or dividing



OLQ2A105027

Blind-Spot Collision-Avoidance Assist may not operate properly when you drive 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.

- Driving where the heights of the lanes are different



OLQ2A105028

Blind-Spot Collision-Avoidance Assist may not operate properly when you drive where the heights of the lanes are different. The function may not detect the vehicle on a road with different lane heights (such as an underpass joining section, grade separated intersection, and so on). Always pay attention to the road and driving conditions.

⚠ WARNING

- When you are towing a trailer or another vehicle, make sure that you turn OFF Blind-Spot Collision-Avoidance Assist.
- Blind-Spot Collision-Avoidance Assist may not operate properly in areas with strong electromagnetic interference.
- Blind-Spot Collision-Avoidance Assist may not activate for approximately 3 seconds after you start the vehicle or initialize the front view camera or rear corner radars.

This device complies with Part 15 of the FCC rules.

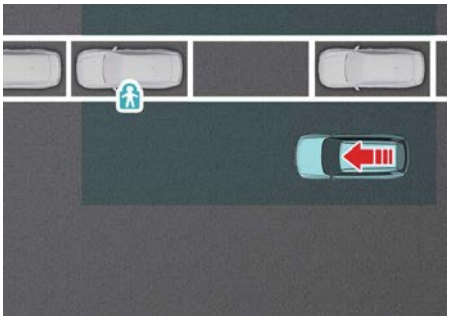
Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. this device must accept any interference received, including interference that may cause undesired operation.

TIP

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Safe Exit Assist (SEA)



OLQ2A105029

While your vehicle is stopped, Safe Exit Assist may help you avoid a collision using a warning message and warning sound if it detects a vehicle approaching the rear corner of your vehicle in warning area and a passenger opens a door.



OLQ2A105030

When the electronic child safety lock button is in the LOCK position and Safe Exit Assist detects a vehicle approaching from the rear in warning area, the electronic child safety lock ( ) button will not unlock, even if you press the button to unlock the rear doors.

TIP

The timing of the warning may vary depending on the speed of approaching vehicle.

Detection sensor

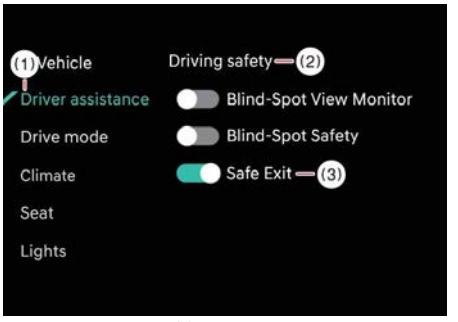
Please refer to "Detecting sensor(s)" on page 461 for the applicable sensors and their locations.

TIP

For more information about the rear corner radars, refer to "Blind-spot Collision-avoidance Assist (BCA)" on page 508.

Safe Exit Assist settings

Safe Exit



OCL4M055122N

(1) **Driver Assistance**
(2) **Driving safety**
(3) **Safe Exit**

While the vehicle is ON, tap **Setup** > **Vehicle** > **Driver Assistance** > **Driving Safety** > **Safe Exit** on the infotainment system screen.

WARNING

Always be aware of your surroundings. If you deselect **Safe Exit**, Safe Exit Assist cannot assist you.

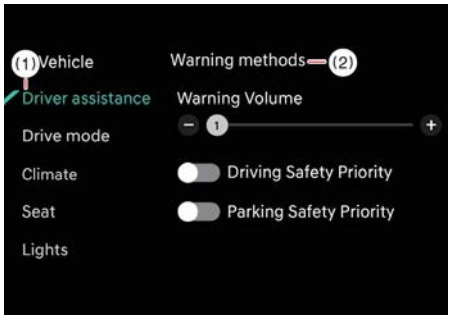
CAUTION

- Do not use the system when towing a trailer or another vehicle, or when a carrier or other equipment that affects sensor operation or vehicle balance is installed, as it may not operate properly.
- When connecting a trailer or carrier, set the trailer or carrier menu (if equipped). If the driver manually sets the menu or the trailer or carrier connection is automatically recognized through genuine parts, the functions of the driver assistance system may be limited. Please refer to "Driver assistance system limitations" on page 653 and always drive with caution.

NOTE

When you restart the vehicle, Safe Exit Assist maintains its last setting.

Warning Methods



OLQ2A005119

(1) **Driver Assistance**
(2) **Warning Methods**

To change the Warning Methods settings while the vehicle is ON, tap **Setup > Vehicle > Driver Assistance > Warning Methods** on the infotainment system screen. You can change the following settings:

- **Warning Volume**: Adjusts the volume of the warning sound.
- **Driving Safety Priority**: Lowers all other audio volumes when the Driving Safety system sounds a warning.

TIP

- Your **Warning Methods** settings may apply to the **Warning Methods** of other driver assistance systems.
- **Warning Methods** maintain their last settings when you turn OFF and restart the vehicle.
- The **Warning Methods** setting menu may not be available on all vehicles.

Safe Exit Assist operation

Warning and control

Safe Exit Assist performs the following actions:
- Vehicle Detection
- Collision Warning (when exiting the vehicle)
- Safe Exit Assist linked to Electronic child safety lock

Vehicle Detection

Operates under the following conditions, and a warning light will illuminate on the side mirrors (outside mirrors), second-row door indicator and the Head-Up Display (if equipped):
- Vehicle speed: 2 mph (3 km/h) or below
- Rear-side vehicle speed: 4 mph (6 km/h) or above
- When the detected vehicle enters the warning area



OLQ2A105022



OLQ2A105085



OLQ2A005036

(1) **Collision Warning**

The warning light on the outside rearview mirror blinks, a warning message appears on the instrument cluster, and an audible warning sounds.
When a door is opened while a vehicle is detected, a collision warning will be activated.

Safe Exit Assist linked to Electronic child safety lock



OLQ2A005110

(1) **Check traffic in the blind spot, then try again**

The warning light on the outside rearview mirror blinks and a warning message appears on the instrument cluster.

- The Safe Exit Assist linked to Electronic child safety lock blocks the release of the child lock even if the electronic child lock button is pressed when a vehicle is detected under the following conditions.
  - Your speed is below 2 mph (3 km/h)
  - The speed of a vehicle approaching from the rear: above 4 mph (6 km/h)
  - When the detected object enters the warning area.

TIP

For more information about the Electronic child safety lock button, refer to "Electronic child safety lock system" on page 57.

TIP

If you press the Electronic child safety lock button within 10 seconds after a warning message appears, Safe Exit Assist determines that you have unlocked the doors while acknowledging the rear status. The Electronic child safety lock turns OFF (as shown on the button indicator) and the rear doors unlock. Always check your surroundings before pressing the Electronic child safety lock button.

WARNING

If you attempt to open a rear door from the outside, it opens regardless of Safe Exit Assist operation.

TIP

- For your safety, change the settings only after parking the vehicle at a safe location.
- Safe Exit Assist may not display a warning message or generate an audible warning if any other function's warning message is displayed or audible warning is generated at the same time.
- You may not hear the warning sound if your surroundings are noisy.

- Safe Exit Assist does not operate in all situations and cannot prevent all collisions.
- Safe Exit Assist may warn you late or may not warn you depending on the road and driving conditions. Always check the vehicle's surroundings.
- You and your passengers are responsible for accidents that occur while exiting the vehicle. Always check your surroundings before you exit the vehicle.
- Do not intentionally test the Safe Exit Assist, as it may result in serious injury or death.

TIP

- After you turn the vehicle OFF, Safe Exit Assist operates approximately for 3 minutes, but turns OFF immediately if you lock the doors.
- The images or colors may display differently depending on the specifications of the instrument cluster or theme.

Safe Exit Assist malfunction and limitations

Safe Exit Assist malfunction



OCL4M055096N

(1) **Check Driver Assistance system**

When Safe Exit Assist is not working properly, the Master warning light ( ) appears on the instrument cluster, along with a warning message that lasts for several seconds. If it does not work properly, have Safe Exit Assist inspected by an authorized Kia dealer.



OCL4M055102N

(1) **Check side view mirror warning light**

When the outside rearview mirror warning light is not working properly, the Master warning light

(⚠) appears on the instrument cluster, along with a warning message that lasts for several seconds.
Have Safe Exit Assist inspected by an authorized Kia dealer.

Safe Exit Assist disabled

When foreign material (such as snow or rain) covers the rear bumper near the rear corner radar or sensor, or when you install a trailer or carrier, it can reduce the detection performance and temporarily limit or disable Safe Exit Assist.



OCL4M055098N

(1) **Driver Assistance system limited. Radar blocked.**

A warning message and the Master warning light (⚠) display on the instrument cluster. This does not indicate a malfunction of Safe Exit Assist.
Safe Exit Assist operates properly when you remove foreign material (such as snow or rain) from the sensor and restart the vehicle. Always keep it clean.
If Safe Exit Assist still does not operate properly after you remove foreign material (such as snow or rain) from the sensor, have the vehicle inspected by an authorized Kia dealer.

⚠ WARNING

- Even if a detection sensor warning message is not displayed or the warning light does not turn on temporarily, Safe Exit Assist may not operate properly.
- Safe Exit Assist may not operate properly in open terrain where no objects are detected, or when the detection sensor is blocked with foreign material immediately after you turn the vehicle ON.

TIP

You can check the Safe Exit Assist status in the service message of the utility information view of the instrument cluster display window.

TIP

Turn Safe Exit Assist OFF to install or remove a trailer, carrier, or other attachment. Turn Safe Exit Assist back ON when you are finished.

Limitations of Safe Exit Assist

Safe Exit Assist may operate abnormally or unexpectedly under the following circumstances:

- You exit the vehicle where there is overgrown foliage.
- You exit the vehicle where the road is wet.
- An approaching vehicle is moving very fast or very slow
- The area around the rear-side radar is blocked by a vehicle, pillar, wall, or other objects.

TIP

For more information about the rear corner radar, refer to "Blind-spot Collision-avoidance Assist (BCA)" on page 508.

WARNING

- Safe Exit Assist may not operate properly if there is strong electromagnetic interference.
- Safe Exit Assist may not activate for approximately 3 seconds after you restart the vehicle or initialize the rear corner radars.
- Even after you restart the vehicle, Safe Exit Assist may not function properly if the obstruction or malfunction persists.

This device complies with Part 15 of the FCC rules.

Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. this device must accept any interference received, including interference that may cause undesired operation.

TIP

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Blind-spot View Monitor (BVM) (if equipped)

Left



OLQ2AH005046

Right



OLQ2AH005047

To help you safely change lanes, Blind-spot View Monitor displays rear blind spots in the instrument cluster when you use the turn signal.

Detection sensor

Please refer to "Detecting sensor(s)" on page 461 for the applicable sensors and their locations.

Blind-Spot View Monitor settings

Wide Rear View camera



OCL4M055123N

(1) **Driver Assistance**
(2) **Driving Safety**
(3) **Blind-Spot view Monitor**

While the vehicle is ON, tap **Setup > Vehicle > Driver Assistance > Driving Safety > Blind-Spot View Monitor** on the infotainment system screen to change Blind-Spot View Monitor settings.

Blind-Spot View Monitor operation

Turn signal lever



OLQ2A105031

Blind-Spot View Monitor turns ON and OFF when you turn the turn signal ON and OFF.

Blind-Spot View Monitor

Operating conditions

- When you turn the left or right turn signal ON, the image appears on the instrument cluster.

Non-operating conditions

Blind-Spot View Monitor turns OFF under one of the following conditions:

- When you turn the turn signal OFF.
- When the hazard light is ON.
- When the instrument cluster displays another important warning.

Blind-Spot View Monitor malfunction

When Blind-Spot View Monitor does not work properly, the instrument cluster display flickers, or the camera image does not display normally, have Blind-Spot View Monitor inspected by an authorized Kia dealer.

TIP

- Blind-Spot View Monitor may display objects at a different distance from what is shown on the infotainment system screen due to the correction of the Wide Side View camera images. Make sure to visually check the surroundings for safety.
- Always keep the camera lens clean to maintain optimal camera performance and Blind-Spot View Monitor operation. Do not clean the camera lens with chemical solvents that may damage it, including strong detergents that contain high alkaline or volatile organic solvents such as gasoline, acetone, and so on.

Manual Speed Limit Assist (MSLA)



OMQ4A055088

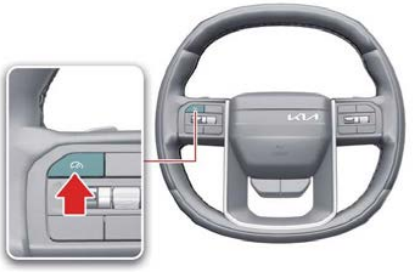
(1) Speed Limit indicator
(2) Set speed

You can set the speed limit when you do not want to drive over a specific speed.
If you drive over the preset speed limit, Manual Speed Limit Assist operates (the set speed limit blinks and the chime sounds) until you return the vehicle speed within the speed limit.

Manual Speed Limit Assist operation

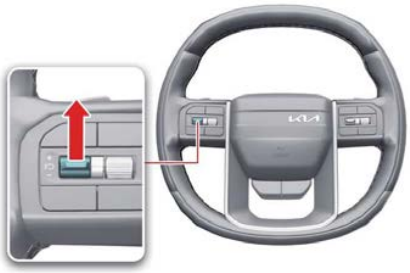
Setting the speed limit

1. Press and hold the Driving Assist ( ) button while driving at the desired speed. The Speed Limit (LIMIT) indicator appears on the instrument cluster.

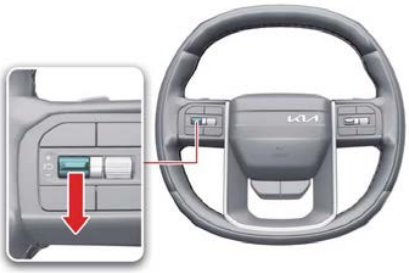


OLQ2A105032

2. Push the (+) switch up or (—) switch down and release it while driving at the desired speed.
   Push the (+) switch up or (—) switch down and hold it. The speed increases or decreases to the nearest multiple of 5 mph (10 km/h) at first, then increases or decreases by 5 mph (10 km/h).



OLQ2A105033



OLQ2A105034

3. The instrument cluster displays the set speed limit (1).
   The set speed limit blinks and the chime sounds until you return the vehicle speed to the limit you set.



OMQ4A055089

TIP

- When the accelerator pedal is not engaged beyond the pressure point, the vehicle maintains the set speed.
- The set speed may differ depending on the vehicle specifications. You may not increase the set speed above the maximum set speed for your vehicle.

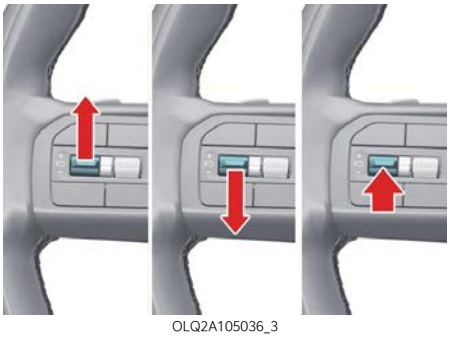
Temporarily pausing Manual Speed Limit Assist



OLQ2A105035

Press the (‖↻) switch to temporarily pause the set speed limit. The set speed limit turns OFF, but the Speed Limit (LIMIT) indicator stays ON.

Resuming Manual Speed Limit Assist

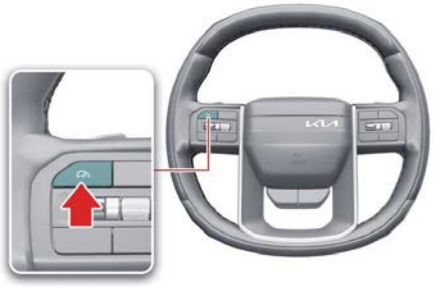


OLQ2A105036_3

To resume Manual Speed Limit Assist after pausing the function, push the (+), (—), and (‖↻) switches as follows:

- If you push the (+) switch up or (—) switch down, the vehicle speed sets to the current speed on the instrument cluster.
- If you push the (‖↻) switch, the vehicle speed resumes the preset speed.

Turning OFF Manual Speed Limit Assist



OLQ2A105032

Press the Driving Assist ( ) button to turn Manual Speed Limit Assist OFF. The Speed Limit (LIMIT) indicator disappears.

WARNING

Take the following precautions when using Manual Speed Limit Assist:

- Always set the vehicle speed below the posted speed limit.
- To avoid inadvertently setting a speed, keep Manual Speed Limit Assist OFF when not in use. Check that the Speed Limit (LIMIT) indicator is OFF.
- Manual Speed Limit Assist is not a substitute for proper and safe driving. It is your responsibility to always drive safely and be aware of unexpected and sudden situations. Pay attention to the road conditions at all times.

Intelligent Speed Limit Assist (ISLA) (if equipped)

Intelligent Speed Limit Assist uses information from detected road signs and navigation system data to inform you of the posted speed limit or additional sign and help you maintain it. However, when navigation is not available, the system operates based on information recognized from road signs.

TIP

- Intelligent Speed Limit Assist may not operate properly if you use it in other countries.
- If your vehicle has a navigation system, the system needs regular updates for Intelligent Speed Limit Assist to operate properly.

Detection sensor

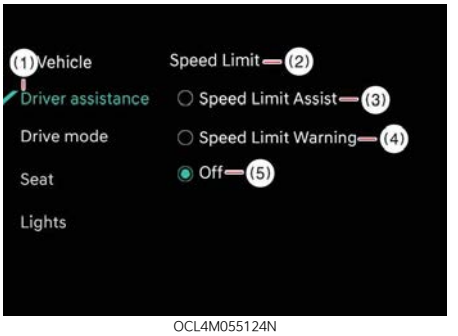
Please refer to "Detecting sensor(s)" on page 461 for the applicable sensors and their locations.

TIP

For more information about the front view camera, refer to "Forward Collision-avoidance Assist (FCA) (Sensor Fusion)" on page 464.

Intelligent Speed Limit Assist settings

Speed Limit



OCL4M055124N

(1) **Driver Assistance**
(2) **Speed limit**
(3) **Speed limit assist**
(4) **Speed limit warning**
(5) **Off**

While the vehicle is ON, tap **Setup > Vehicle > Driver Assistance > Speed Limit** on the infotainment system screen.

- **Country Selection**: If navigation is not enabled, you can manually select the country from the menu. Please select the country you are currently driving in for proper functionality.
- **Speed Offset Setting**: Sets the speed offset. The system issues an overspeed warning and adjusts the set speed based on the road's speed limit plus the selected offset value.
- **Speed Limit Assist**: Intelligent Speed Limit Assist informs you of the posted speed limit and additional road signs, and warns you when you drive the vehicle faster than the speed limit. Intelligent Speed Limit Assist also recommends changing the set speed of the Manual Speed Limit Assist or Smart Cruise Control functions to help you stay within the posted speed limit.

- **Speed Limit Warning**: Intelligent Speed Limit Assist informs you of the posted speed limit and additional road signs. Intelligent Speed Limit Assist also warns you when you drive the vehicle faster than the posted speed limit.
- **Off**: Intelligent Speed Limit Assist turns OFF.

TIP

Be sure to park in a safe place before setting Intelligent Speed Limit Assist.

TIP

- The Speed Limit and Speed Limit Warning functions operate based on an offset value added to the speed limit. Set the offset value to "0" to change or warn you of the speed according to the posted speed limit.
- Navigation-based Smart Cruise Control does not reflect the setting of the Speed Limit Offset function.

Intelligent Speed Limit Assist operation

Warning and control

Intelligent Speed Limit Assist has the following warnings and controls:
- Displaying the speed limit
- Speeding warning
- Changing the set speed
- Auto set speed change

TIP

Intelligent Speed Limit Assist warnings and controls operate based on adjusting the Offset to "0". For more information about adjusting the Offset setting, refer to "Intelligent Speed Limit Assist (ISLA)" on page 535.

Displaying the speed limit



OLQ2A005018

The instrument cluster displays the speed limit information.

TIP

- If Intelligent Speed Limit Assist cannot recognize speed limit information from the road, the instrument cluster displays the '---' sign. Please refer to "Intelligent Speed Limit Assist malfunction and limitations" on page 539 if the road signs are difficult for the function to recognize.
- Intelligent Speed Limit Assist provides other road sign information in addition to the posted speed limit. The additional road sign information provided may vary according to your region.
- The images or colors may display differently depending on the specifications of the instrument cluster or theme.

Speeding warning



OLQ2A005019

When you drive at a speed higher than the displayed speed limit, the red speed limit indicator appears.

Changing the set speed



OLQ2A005020

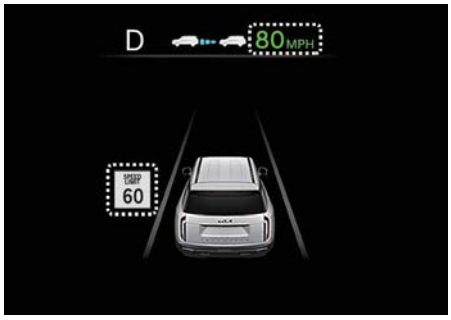


OLQ2A005021

If the posted speed limit on the road changes while you are operating Manual Speed Limit Assist or Smart Cruise Control, the instrument cluster displays an up or down arrow to inform you to change the set speed. You can change the set speed according to the speed limit by using the (+) or (—) switch on the steering wheel.
The set speed adjustment operates under the following condition:

• On roads with a speed limit of 20 mph (30 km/h) or higher.

Auto set speed change (if equipped with navigation)



OLQ2A005022

When you operate Manual Speed Limit Assist or Smart Cruise Control, if the speed you set is the same as the posted speed limit, the set speed automatically adjusts according to the speed limit afterward. The auto set speed change function operates on roads with a speed limit of above 45 mph (70 km/h). When you activate the function, the set speed displays in green on the instrument cluster.

TIP

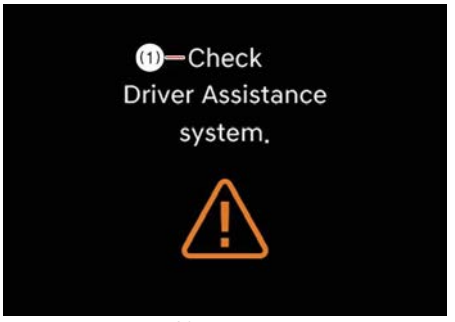
- When you drive at a speed lower than the speed limit, set the offset below "0", or push the (—) switch to decrease your set speed.
- Even after you change the set speed according to the posted speed limit, you can still drive the vehicle over the speed limit. Always check the traffic conditions and decelerate manually when necessary.
- Intelligent Speed Limit Assist operates using the speed unit you set in the instrument cluster. If you set the speed unit to a different unit than the one used in your country, Intelligent Speed Limit Assist may not operate properly.

TIP

- For more information about Manual Speed Limit Assist operation, refer to "Manual Speed Limit Assist (MSLA)" on page 531.
- For more information about Smart Cruise Control operation, refer to "Smart Cruise Control (SCC)" on page 556.

Intelligent Speed Limit Assist malfunction and limitations

Intelligent Speed Limit Assist malfunction



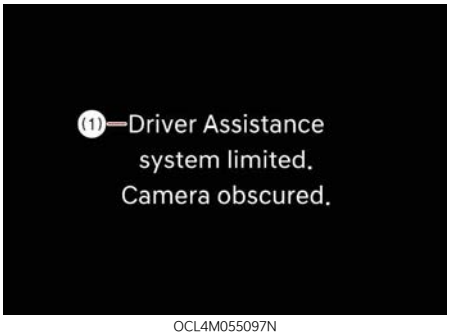
OCL4M055096N

(1) **Check Driver Assistance system.**

When Intelligent Speed Limit Assist is not working properly, the Master warning light ( ) and the Intelligent Speed Limit Assist indicator light ( ) appear on the instrument cluster, along with a warning message that lasts for several seconds.

If this occurs, have the vehicle inspected by an authorized Kia dealer.

Intelligent Speed Limit Assist disabled



OCL4M055097N

(1) **Driver Assistance system limited. Camera obscured.**

When foreign material (such as snow or rain) covers the windshield where the front view camera is located, it can reduce the detection performance and temporarily limit or disable Intelligent Speed Limit Assist.

If this occurs, a warning message and the Intelligent Speed Limit Assist indicator light ( ) display on the instrument cluster.

Intelligent Speed Limit Assist should operate properly when you remove foreign material (such as snow or rain) from the sensor. Always keep it clean.

If Intelligent Speed Limit Assist still does not operate properly after you remove foreign material (such as snow or rain) from the sensor, have the vehicle inspected by an authorized Kia dealer.

WARNING

- Even though a warning message or light does not appear on the cluster, Intelligent Speed Limit Assist may not operate properly.
- If you restart the vehicle with the sensors blocked or malfunctioning, Intelligent Speed Limit Assist may not operate properly until you fix the broken or covered state.

TIP

You can check the warning message in the service message of the utility information view of the instrument cluster.

Limitations of Intelligent Speed Limit Assist

Intelligent Speed Limit Assist may operate abnormally or unexpectedly under the following circumstances:

- The road sign is dirty or difficult to read.
  - The road sign is difficult to see due to inclement weather, such as rain, snow, or fog.
  - The road sign is partially obscured by surrounding objects or shadows.
  - The road sign is bent or installed at an angle.
- The road signs do not conform to the standard expected by Intelligent Speed Limit Assist.
  - The text or picture on the road sign is different from the standard expected by Intelligent Speed Limit Assist.
  - The road sign is installed between the main road and the exit road, or between diverging roads.
  - A sign is attached to another vehicle
- The distance between the vehicle and the road signs is far
- When traffic signs are installed high above the road
- When the vehicle speed is high and there is insufficient time to recognize the traffic sign
- When frequently using turn signals in lanes adjacent to an exit
- When driving closely behind a preceding vehicle
- When supplementary signs or advertisements are installed near the traffic sign
- When communication with the map server is unstable
- When the navigation system reboots while driving
- When there is a change of country
  - When the vehicle crosses a national border
  - When the country setting is changed via the country selection menu
- The road signs are illuminated.
- Intelligent Speed Limit Assist incorrectly recognizes numbers or pictures in the street signs or other signs as the speed limit
- Intelligent Speed Limit Assist detects a sign on a nearby road.
- Multiple signs are installed close together
- A minimum speed limit sign is mistakenly recognized as a maximum speed limit sign.
- The brightness changes suddenly (for example, when you enter or exit a tunnel).
- You are not using the headlights, or the brightness of the headlights is weak at night or in a tunnel.
- Glare from the sun obstructs the front view camera's field of view.

- Road signs are difficult to recognize due to the reflection of sunlight, street lights, or oncoming vehicles
- The navigation or GPS information contains errors.
- You do not follow the guidance of the navigation.
- You are driving on a sharply or continuously curved road.
- You are driving over speed bumps, or driving up and down or left to right on steep inclines.
- The vehicle is shaking heavily.
- You are driving on a new road.
- You are driving on a road under construction.
- The navigation software updates while you are driving.

WARNING

- Intelligent Speed Limit Assist is a supplemental function that can help you comply with the posted speed limit. This function may not display the correct speed limit or control the driving speed properly.
- It is your responsibility to follow the speed limit.
- Intelligent Speed Limit Assist may not operate for 15 seconds after you start the vehicle or initialize or restart the front view camera.

TIP

For more information about the limitations of the front view camera, refer to "Forward Collision-avoidance Assist (FCA) (Sensor Fusion)" on page 464.

Driver Attention Warning (DAW)

Driver Attention Warning function

Driver Attention Warning monitors your driving pattern. When your attention appears to be below a certain level, Driver Attention Warning recommends a break to help with safe driving.

Leading Vehicle Departure Alert function

Leading Vehicle Departure Alert informs you when a detected vehicle ahead departs from a stop.

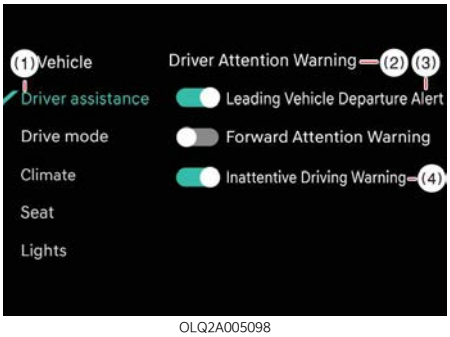
Detection sensor

During driving, the front camera is used as a detection sensor to recognize driving patterns and the departure of vehicles ahead. Please refer to "Detecting sensor(s)" on page 461 for the applicable sensors and their locations.

TIP

- Always keep the front view camera in good condition to maintain optimal performance of Driver Attention Warning.
- For more information about the front view camera, refer to "Forward Collision-avoidance Assist (FCA) (Sensor Fusion)" on page 464.

Driver Attention Warning settings



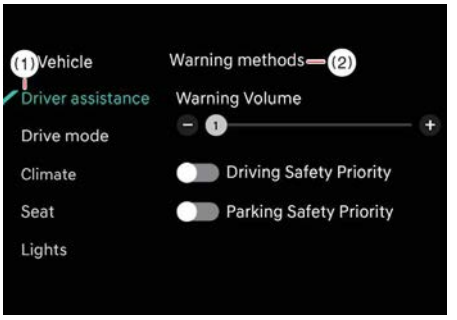
OLQ2A005098

(1) **Driver Assistance**
(2) **Driver Attention Warning**
(3) **Leading Vehicle Departure Alert**
(4) **Inattentive Driving Warning**

While the vehicle is ON, tap **Setup > Vehicle > Driver Assistance > Driver Attention Warning** on the infotainment system screen.

- **Leading Vehicle Departure Alert**: Driver Attention Warning will inform the driver when a detected vehicle in front departs from a stop.
- **Inattentive Driving Warning**: Inattentive Driving Warning of DAW can be turned on or off.

Warning Methods



OLQ2A005119

(1) **Driver Assistance**
(2) **Warning Methods**

To change the Warning Methods settings while the vehicle is ON, tap **Setup > Vehicle > Driver Assistance > Warning Methods** on the infotainment system screen. You can change the following settings:

- **Warning Volume**: Adjusts the volume of the warning sound.
- **Driving Safety Priority**: Lowers all other audio volumes when the Driving Safety system sounds a warning.

TIP

- Your **Warning Methods** settings may apply to the **Warning Methods** of other driver assistance systems.
- **Warning Methods** maintain their last settings when you turn OFF and restart the vehicle.
- The **Warning Methods** setting menu may not be available on all vehicles.

Driver Attention Warning operation

Inattentive Driving Warning function

The basic function of Driver Attention Warning is to advise the driver to take a break.

Taking a break



OCL4M055104N

(1) **Consider taking a break**

The Inattentive Driving Warning light ( ) blinks, a warning message appears on the instrument cluster, and an audible warning sounds to suggest that you take a break when your attention level is below a certain level.

- Driver Attention Warning will not suggest a break when the total driving time is shorter than 4 minutes, or before 4 minutes have passed since the function last suggested a break.

The driver's attention level is assessed based on the following criteria:

- The driver's individual driving patterns, such as steering and acceleration/deceleration
- Driving conditions, such as driving duration

The driver's attention level is reset under the following conditions:

- When the driver's seat belt is unfastened and the door is opened and closed while stopped
- When stopped for more than 10 minutes
- Upon restarting the vehicle

The rest recommendation operates under the following condition:

- Vehicle speed: 40 mph (60 km/h) or above

WARNING

For your safety, change the settings only after parking the vehicle at a safe location.

CAUTION

- Driver Attention Warning may suggest a break depending on your driving pattern or habits, even if you do not feel fatigued.
- Driver Attention Warning is a supplemental function and may not be able to determine whether you are being inattentive.
- If you feel fatigued, you should take a break at a safe location, even if Driver Attention Warning does not suggest a break.
- During an interior camera warning, the inattentive driving warning is limited.

Leading Vehicle Departure Alert function



OCL4M055044N

(1) **Leading vehicle is driving away**

When a detected vehicle ahead departs from a stop, Leading Vehicle Departure Alert will inform you by displaying a warning message on the instrument cluster and generating an audible warning sound.

WARNING

- Leading Vehicle Departure Alert may not display a warning message or generate an audible warning if any other function's warning message is displayed or an audible warning is generated at the same time.
- You are responsible for driving safely and controlling the vehicle.

TIP

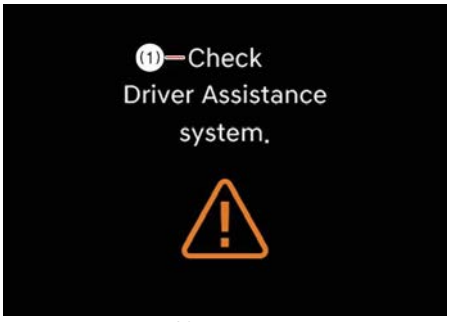
- Leading Vehicle Departure Alert is a supplemental function and may not alert you whenever the vehicle ahead departs from a stop.
- Always check the front of the vehicle and road conditions before departure.

TIP

The images or colors may display differently depending on the specifications of the instrument cluster or theme.

Driver Attention Warning malfunction and limitations

Driver Attention Warning malfunction



OCL4M055096N

(1) **Check Driver Assistance system.**

When Driver Attention Warning is not working properly,the Master warning light (⚠) appears on the instrument cluster, along with a warning message that lasts for several seconds.
If this occurs, have Driver Attention Warning inspected by an authorized Kia dealer.

Driver Attention Warning disabled



OCL4M055097N

(1) **Driver Assistance system limited. Camera obscured.**

When foreign material (such as snow or rain) covers the windshield where the front view camera is located, the front radar cover, the bumper, or the sensor, it can reduce the detecting performance and temporarily limit or disable Driver Attention Warning.
If this occurs, a warning message and the Master warning light (⚠) display on the instrument cluster. This does not indicate a malfunction of Driver Attention Warning.
Driver Attention Warning should operate properly when you remove foreign material (such as snow or rain) from the sensor.
If Driver Attention Warning still does not operate properly after you remove foreign material (such as snow or rain) from the sensor or obstructions (such as a trailer or carrier) from the rear bumper, have the vehicle inspected by an authorized Kia dealer.

WARNING

- If the camera is obstructed or malfunctioning, the obstructed or faulty state will remain even after restarting, and the driver attention warning may not operate properly.
- Driver Attention Warning may not operate properly in an open area where there is nothing to detect, or when the detection sensor is covered with foreign material after you turn the vehicle ON.

TIP

You can check the Driver Attention Warning message in the utility information view of the instrument cluster.

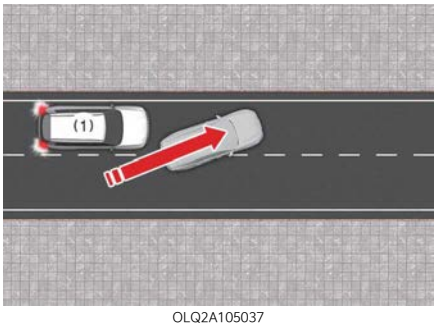
Limitations of Driver Attention Warning

Driver Attention Warning may operate abnormally or unexpectedly under the following circumstances:

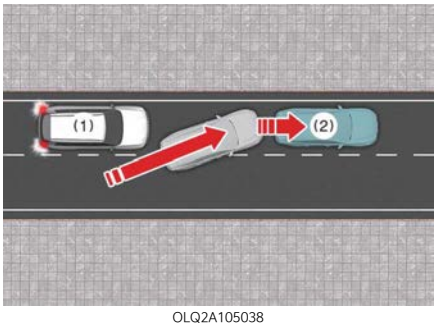
- Driving aggressively, such as during rapid acceleration or high-speed cornering.
- You frequently change lanes.
- Other functions of the Driver Assistance system, such as Lane Keeping Assist, are controlling the vehicle.
- Lane recognition is difficult, such as when lines are faint or worn out.

Leading vehicle departure alert function

- When a vehicle cuts in



OLQ2A105037

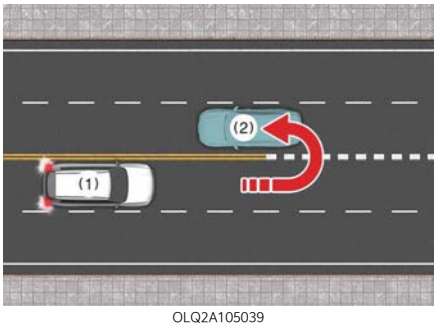


OLQ2A105038

(1) Your vehicle
(2) Vehicle ahead

If a vehicle cuts in ahead of you, Leading Vehicle Departure Alert may not operate properly.

- When the vehicle ahead sharply steers

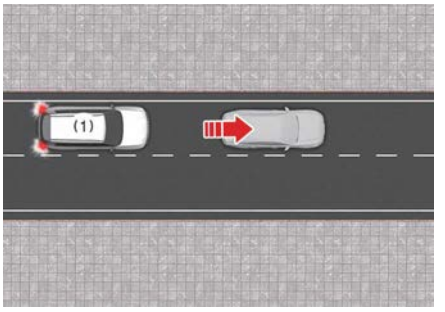


OLQ2A105039

(1) Your vehicle
(2) Vehicle ahead

If a vehicle ahead makes a sharp turn (to the left or right or a U-turn), Leading Vehicle Departure Alert may not operate properly.

- When the vehicle ahead abruptly departs



(1) Your vehicle

OLQ2A105040

If the vehicle ahead abruptly departs, Leading Vehicle Departure Alert may not operate properly.

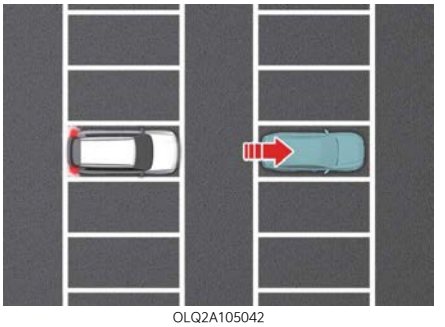
- When a pedestrian or cyclist is between you and the vehicle ahead



OLQ2A105041

If there is a pedestrian or cyclist between you and the vehicle ahead, Leading Vehicle Departure Alert may not operate properly.

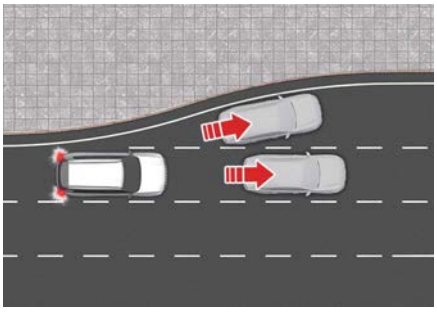
- When in a parking lot



OLQ2A105042

If a vehicle parked ahead 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



OLQ2A105043

If the vehicle is stopped and it is difficult to identify the vehicle ahead due to a lane split or merge in the front lane, Leading Vehicle Departure Alert may not operate properly.

TIP

Driver Attention Warning may not activate until 15 seconds after you restart the vehicle or initialize the front view camera.

TIP

For more information about the front view camera, refer to "Forward Collision-avoidance Assist (FCA) (Sensor Fusion)" on page 464.

Forward Attention Warning (FAW) (if equipped)

Forward Attention Warning uses the in-cabin camera to help minimize driver distraction while driving with an audible warning and warning light.

Detecting sensor



OLQ2A105067

(1) **In-cabin camera**

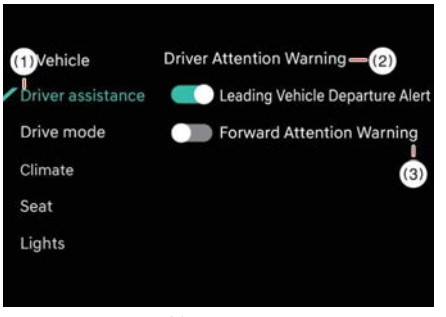
The picture above shows the detailed location of the detecting sensor.

NOTE

Always keep the in-cabin camera in good condition to maintain optimal performance of Forward Attention Warning.

Forward Attention Warning settings (if equipped)

Forward attention warning



OCL4M055151N

(1) **Driver assistance**
(2) **DAW (Driver attention warning)**
(3) **Forward attention warning**

With the vehicle on, select **Setup > Vehicle > Driver assistance > DAW (Driver Attention Warning) > Forward attention warning** in the infotainment system to set whether to use the function.

- **Forward attention warning**: It will warn the driver when the driver's gaze is not focused on the road.

TIP

Forward Attention Warning will always turn on when the vehicle restarts.

Forward Attention Warning operation

Forward Attention Warning

Forward Attention Warning seeks to determine whether the driver is focused on the road according to information such as the amount of time the driver is looking elsewhere, the amount of time the eyes are closed, and so on. If it determines the driver is not focused, an audible warning sounds for about 1 second, and the Forward attention warning light () appears on the cluster until the conditions to turn it off are met.

Operating conditions

- When the driver's gaze is not focused on the road continuously for 3 seconds while driving above 12 mph (20 km/h)
- When glances away from the road total 10 seconds or more within a 30-second time frame in a car traveling at a speed of 12 mph (20 km/h) or more
- When the driver's eyes are closed for 2 seconds or more while driving above 6 mph (10 km/h)

Off conditions

- When the driver looks forward continuously for over 1 seconds
- When the operating conditions are not met
- When driving below the warning activation speed

Driver Drowsiness Attention Warning

The Driver Drowsiness Attention Warning monitors your eyes while driving. When the driver's eyes appear to be constantly closed or not facing forward frequently, the Driver Drowsiness Attention Warning recommends a break to help with safe driving.
An inattentive warning light () appears on the cluster, and an audible warning sounds until the conditions to turn it off are met.

Operating conditions

- When the driver's eyes are constantly closed or not facing forward frequently while driving above 6 mph (10 km/h)

Off conditions

- When the driver's gaze is focused on the road

WARNING

If any other system’s warning message is displayed or audible warning is generated, Forward Attention Warning's warning message may not be displayed and an audible warning may not be generated.

CAUTION

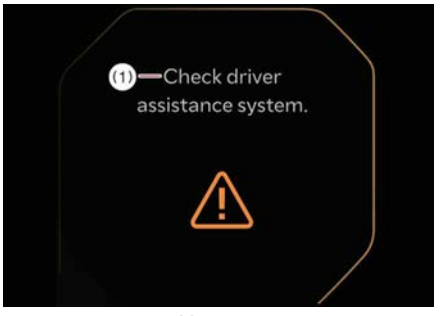
- Forward Attention Warning may warn the driver even when the driver is focused on the road due to their driving style or driving pattern.
- Forward Attention Warning is a supplemental function and may not be able to determine whether the driver is distracted while driving.
- The driver is responsible for safe driving and must focus on the road.

TIP

- Forward Attention Warning does not transmit recorded videos outside the vehicle or store the video.
- The Warning Method for Forward Attention Warning cannot be changed.

Forward Attention Warning malfunction and limitations

Forward Attention Warning malfunction



OOV055180L

(1) **Check forward attention warning system**

When Forward Attention Warning is not working properly, the warning message appears on the instrument cluster for several seconds, the Forward attention warning light ( ) lights up on the instrument cluster, and an audible warning sounds until it is working properly.
If this occurs, have the function inspected by an authorized Kia dealer as soon as possible.

Forward Attention Warning disabled



OOV055184L

(1) **Driver Assistance System limited. Camera obscured**

When there is an object right in front of the in-cabin camera or between the driver and the camera for a certain period of time, Forward Attention Warning does not operate properly. If this occurs, the warning message appears on the instrument cluster for several seconds, the Forward attention warning light (👁) lights up on the instrument cluster, and an audible warning sounds until it is working properly.
If the object is removed or the camera is able to detect the driver's face, the function will operate normally. If Forward Attention Warning does not operate properly after the object is removed, have the function checked by an authorized Kia dealer.

NOTE

- Do not impact the surface of the camera or around the camera. If the in-cabin camera is damaged, Forward Attention Warning may not work properly.
- Do not place anything on the camera or in front of the camera while driving. The in-cabin camera may not operate properly.
- When cleaning the camera, wipe with a soft and clean cloth to prevent damage to the surface of the camera lens. In addition, do not use sharp tools near the camera and do not use chemicals to clean the camera.
- Always keep the camera and its surroundings clean and dry.
- Do not place foreign objects, such as stickers, around the infrared LED located near the camera.

TIP

Two red lights may appear on the camera in the following conditions:

- The outside brightness is dim or when driving at night
- The vehicle drives inside a building, such as a basement car park, garage or tunnel
- The camera case is partially broken

Limitations of Forward Attention Warning

Forward Attention Warning may not operate properly or may operate unexpectedly under the following circumstances:

- The driver is wearing sunglasses, special glasses, infrared cutoff glasses, refracting glasses or thick glasses
- The driver has heavy eye makeup (eyeliner, mascara, color makeup, false eyelash) or piercings around the eyes
- The view of the driver is blocked by their hair, hat, etc.
- The driver is winking or wearing an eye patch on one eye
- The driver's face is covered partially by a mask, muffler, etc.
- The view of the driver is blocked by incoming light from outside the vehicle
- Light from outside, sunlight or infrared LED light of the camera is reflected by glasses or sunglasses
- The driver turns or lowers their head so that the face or eyes are hidden from the camera
- The driver shakes their head or adverse road conditions cause excessive vehicle vibrations while driving
- The driver is improperly positioned in the driver's seat so that their face is not detected
- The driver is too tall or short
- The camera is blocked by the driver's grip on the steering wheel
- More than two people are looking at the instrument cluster simultaneously from the driver's seat
- The driver's eyes are narrowed due to laughing or sun glare
- The camera incorrectly recognizes a picture or mannequin that is of similar size to the driver's face
- There are other devices using infrared light in the vehicle

Smart Cruise Control (SCC)

Basic function

Smart Cruise Control can detect a vehicle ahead and help you maintain the appropriate following distance from it at the set speed.

Overtake Acceleration Assist function

When Smart Cruise Control determines that you are attempting to overtake a vehicle ahead, the function helps with accelerating.

Based On Driving Style function (if equipped)

Smart Cruise Control operates based on how you drive, taking into account distance between vehicles, acceleration, and reaction speed.

Detection sensors

The front camera and front radar are used as detection sensors to recognize vehicles ahead. Please refer to "Detecting sensor(s)" on page 461 for the applicable sensors and their locations.

CAUTION

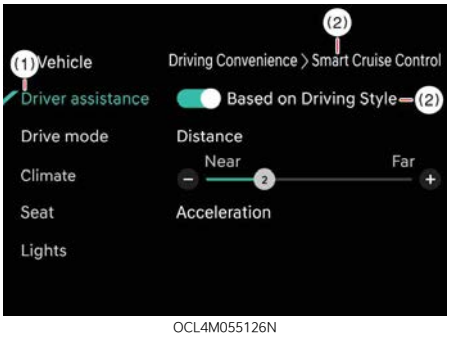
- Always keep the front view camera and front radar in good condition to maintain optimal performance of Smart Cruise Control.
- For more information about the front view camera and front radar, refer to "Forward Collision-avoidance Assist (FCA) (Sensor Fusion)" on page 464.

Smart Cruise Control settings

Smart Cruise Control

While the vehicle is ON, tap **Setup > Vehicle > Driver Assistance > Driving Convenience > Smart Cruise Control** on the infotainment system screen to set the distance, acceleration, and reaction speed.

Based on driving style



OCL4M055126N

(1) **Driver Assistance**
(2) **Smart Cruise Control**
(3) **Based on Driving Style**

While the vehicle is ON, tap **Setup > Vehicle > Driver Assistance > Driving Convenience > Smart Cruise Control > Based on Driving Style**. If **Based on Driving Style** is selected on the infotainment system screen, Smart Cruise Control operates based how you drive, taking into account distance between vehicles, acceleration, and reaction speed.
You can adjust the driving style manually.

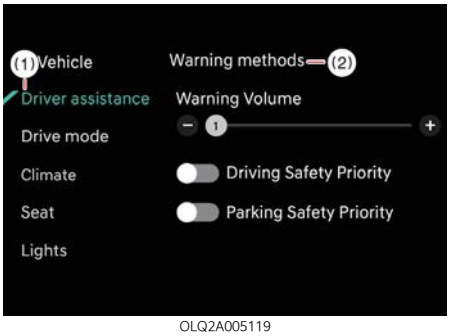
TIP

- If your vehicle is equipped with **Based on Driving Style**, you can select Based on driving mode and Based on driving style by tapping **Setup > Vehicle > Driver Assistance > Driving Convenience > Smart Cruise Control** on the infotainment system screen.
- While Smart Cruise Control is operating with Based on driving style selected, if you press and hold the Vehicle Distance ( ) button, Based on driving mode is disabled. Press and hold the Vehicle Distance ( ) button to change Smart Cruise Control to Based on driving style mode.
- Smart Cruise Control learns your driving style only when you drive the vehicle.
- When Based On Driving Style is disabled, your driving style (distance between vehicles, acceleration, and response speed) remains at the same level as the Based On Driving Style function.
- Whether Based On Driving Style is enabled or disabled, the displayed driving style (including distance between vehicles, acceleration, and response speed) may vary between different driving styles.

WARNING

- Towing a trailer or installing a carrier may reduce control stability. If necessary, disable the function and always drive with caution.
- Do not use the system when towing another vehicle or when other equipment that affects sensor operation or vehicle balance is installed, as it may not operate properly.

Warning Methods



OLQ2A005119

(1) **Driver Assistance**
(2) **Warning Methods**

To change the Warning Methods settings while the vehicle is ON, tap **Setup > Vehicle > Driver Assistance > Warning Methods** on the infotainment system screen. You can change the following settings:

- **Warning Volume**: Adjusts the volume of the warning sound.
- **Haptic Warning**: Turns ON the steering wheel vibration warning.
- **Driving Safety Priority**: Lowers all other audio volumes when the Driving Safety system sounds a warning.

TIP

- Your **Warning Methods** settings may apply to the **Warning Methods** of other driver assistance systems.
- **Warning Methods** maintain their last settings when you turn OFF and restart the vehicle.
- The **Warning Methods** setting menu may not be available on all vehicles.

Smart Cruise Control operation

Operating conditions

Basic function

Smart Cruise Control operates under the following conditions:

- The gear is in D (Drive).
- Your speed is within the operating range:
  - When there is no vehicle ahead: 5-120 mph (10-200 km/h)
  - When there is a vehicle ahead: 0-120 mph (0-200 km/h)
- Electronic Stability Control (ESC) or Anti-lock Braking System (ABS) is ON.

Smart Cruise Control does not operate in the following conditions.

- The driver's door is open.
- Engine RPM is high.
- Electronic Parking Brake (EPB) is engaged.
- ESC or ABS is controlling the vehicle.
- Forward Collision-Avoidance Assist brake control is operating.
- Remote Smart Parking Assist brake control is operating (if equipped).
- The vehicle is stopped or traveling below 5 mph (10 km/h) with no vehicle ahead
- The brake pedal is pressed while driving (excluding when stopped)

TIP

When you are stopped behind another vehicle, you can turn on Smart Cruise Control while the brake pedal is engaged.

Overtaking Acceleration Assist function

Overtaking Acceleration Assist operates when you turn the turn signal indicator ON to the left (left-hand drive) or the right (right-hand drive) while Smart Cruise Control is operating under the following conditions:

- Your speed is above 40 mph (60 km/h).
- A vehicle is detected ahead of you.

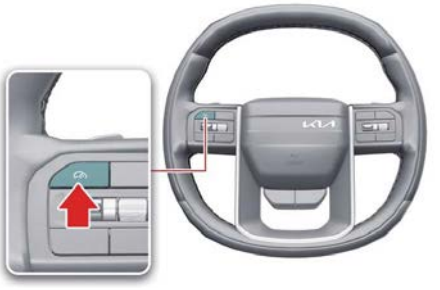
Overtaking Acceleration Assist does not operate under the following conditions:

- The hazard lights are ON.
- You have reduced your speed to maintain following distance from a vehicle ahead.

WARNING

- When you turn the turn signal indicator ON to the left (left-hand drive) or the right (right-hand drive) while there is a vehicle ahead, your vehicle may accelerate temporarily. Always pay attention to the road conditions.
- Regardless of your country's driving direction, Overtaking Acceleration Assist operates when the conditions are satisfied. When using the function in countries with a different driving direction, always check the road conditions.

Turning on Smart Cruise Control



OLQ2A105032

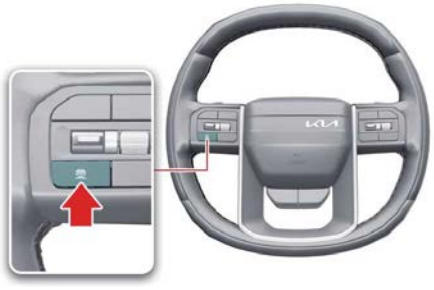
Press the Driving Assist button to turn Smart Cruise Control ON. The speed is set to the current speed on the instrument cluster.

- If there is no vehicle ahead of you, the function maintains the set speed.
- If there is a vehicle ahead of you, the function may adjust the speed to maintain the distance from that vehicle. If the vehicle ahead accelerates, your vehicle will travel at a steady cruising speed after accelerating to the set speed.

TIP

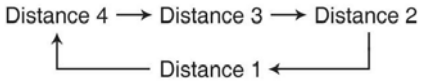
- If your vehicle speed is between 0-20 mph (0-30 km/h) when you press the Driving Assist button, the Smart Cruise Control speed will be set to 20 mph (30 km/h).
- Pressing and holding the Driving Assist button activates the Manual Speed Limit Assist (MSLA).
- For more details on Manual Speed Limit Assist (MSLA), refer to "Manual Speed Limit Assist (MSLA)" on page 531.

Setting vehicle distance



OLQ2A105044

To adjust the distance to the vehicle ahead, press the button. The distance will change as follows:
- The closest vehicle distance is 1.



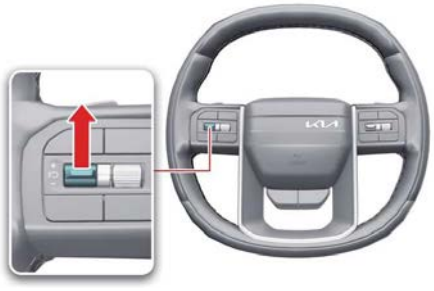
ODEEV078136NR

For example, if you drive at 56 mph (90 km/h), the distance is maintained as follows:
- Distance 4: approximately 172 ft (52.5 m)
- Distance 3: approximately 130 ft (40 m)
- Distance 2: approximately 106 ft (32.5 m)
- Distance 1: approximately 82 ft (25 m)

TIP

The distance is set to the last distance you set before you restarted the vehicle or temporarily canceled Smart Cruise Control.

Increasing set speed



OLQ2A105033

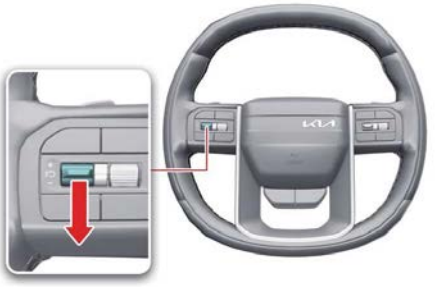
- Push the (+) switch up and release it immediately. The set speed increases by 1 mph (1 km/h) each time you operate the switch in this manner.
- Push the (+) switch up and hold it. The set speed increases by 5 mph (10 km/h) each time you operate the switch in this manner.

  You can increase the set speed to 120 mph (200 km/h).

TIP

Check the driving conditions before using the (+) switch. Speed may sharply increase when you push up and hold the (+) switch.

Decreasing set speed



OLQ2A105034

- Push the (—) switch down and release it immediately. The set speed decreases by 1 mph (1 km/h) each time you operate the switch in this manner.
- Push the (—) switch down and hold it. The set speed decreases by 5 mph (10 km/h) each time you operate the switch in this manner.

  You can decrease the set speed to 20 mph (30 km/h).

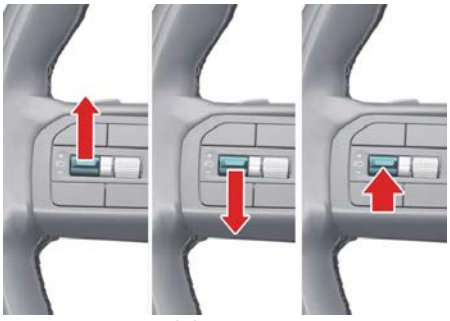
Temporarily canceling Smart Cruise Control



OLQ2A105045_2

Press the ( ) switch or engage the brake pedal to temporarily cancel Smart Cruise Control.

Resuming Smart Cruise Control



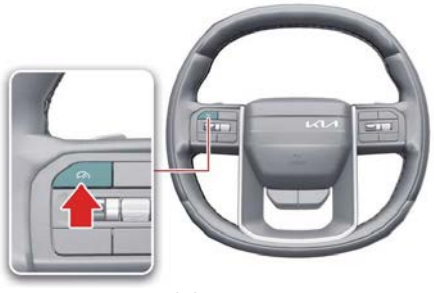
OLQ2A105036_3

To resume Smart Cruise Control after you cancel it, push the ( ), ( ), or ( ) switches as follows:

- If you push the ( ) switch up or ( ) switch down, the set speed is set to the current speed on the instrument cluster.
- If you press the ( ) switch, the vehicle resumes the preset speed.
- If the driver is pressing the accelerator and the current speed is below the set speed, pressing the ( ) or ( ) switch will immediately activate the function, and the set speed will be adjusted based on the current driving speed.

> **TIP**
>
> Check the driving conditions before you push the ( ) switch. Speed may sharply increase or decrease when you push the ( ) switch.

Turning OFF Smart Cruise Control



OLQ2A105032

Press the Driving Assist button to turn Smart Cruise Control OFF.

TIP

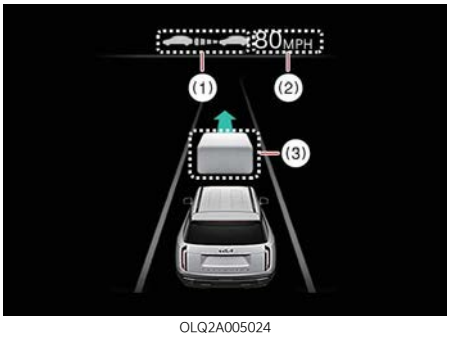
If your vehicle is equipped with Manual Speed Limit Assist, press and hold the Driving Assist button to turn OFF Smart Cruise Control. However, this action turns ON Manual Speed Limit Assist.

WARNING

Do not use the switches and buttons at the same time. Smart Cruise Control may not operate properly.

Smart Cruise Control display and control

You can see the status of Smart Cruise Control operation in the Driving Assist view on the instrument cluster. Refer to "LCD display modes" on page 164.
Smart Cruise Control is displayed as shown in the following image (depending on the status of the function):



OLQ2A005024

- When operating:
  (1) Shows whether there is a vehicle ahead and displays the selected distance level
  (2) Displays the set speed
  (3) Shows whether there is a vehicle ahead and displays the target vehicle distance
- When temporarily canceled:
  (1) Shows your vehicle (gray)
  (2) Displays the previous set speed (gray)
  (3) Shows whether there is a vehicle ahead (gray) (if equipped)

TIP

- The instrument cluster displays the distance from the vehicle ahead according to the actual distance between that vehicle and yours.
- The target distance may vary according to the vehicle speed and the set distance level. If the vehicle speed is low, even though the vehicle distance has changed, the change of the target vehicle distance may be small.
- The images or colors may display differently depending on the specifications of the instrument cluster or theme.

Accelerating temporarily



OLQ2A005025

If you want to speed up temporarily while operating Smart Cruise control without altering the set speed, engage the accelerator pedal. While the accelerator pedal is engaged, the set speed, distance level, and target distance blink on the instrument cluster.
However, if you do not engage the accelerator pedal sufficiently, the vehicle may decelerate.

WARNING

Be careful when accelerating temporarily, as Smart Cruise Control does not control the speed and distance automatically, even if there is a vehicle ahead of you.

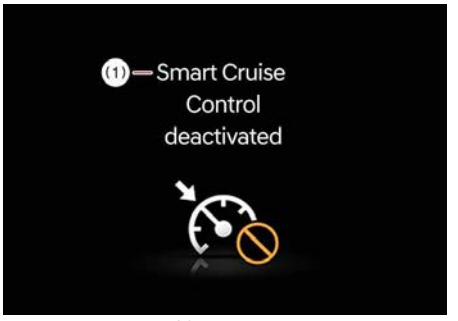
Based on Driving Style operating



OLQ2A005026

When Based on Driving Style is enabled, the instrument cluster displays the set vehicle distance level and target vehicle distance in white. It also displays the distance level and target distance based on your driving style.

Temporarily canceling Smart Cruise Control



OCL4M055105N

(1) **Smart Cruise Control deactivated**

If Smart Cruise Control is temporarily canceled automatically, a warning message appears on the instrument cluster, and an audible warning sounds.

Smart Cruise Control is temporarily canceled automatically when:

- Accelerating above 130 mph (210 km/h)
- Decelerating below 5 mph (10 km/h)
- The vehicle is stopped for a certain period of time
- You continuously engage the accelerator pedal for a certain period of time
- The Smart Cruise Control operating conditions are not satisfied
- The gear is in N (Neutral), R (Reverse), P (Park), or in a condition where shifting is not possible
- The Electronic Stability Control (ESC) or ABS is turned off
- The engine is operating at high RPM
- The electronic parking brake (EPB) is engaged
- The trailer brake manual lever is operated while a trailer connector is connected via dedicated parts (if equipped)

  If Smart Cruise Control is automatically temporarily deactivated, a warning message and alert sound will notify the driver of the automatic temporary deactivation.

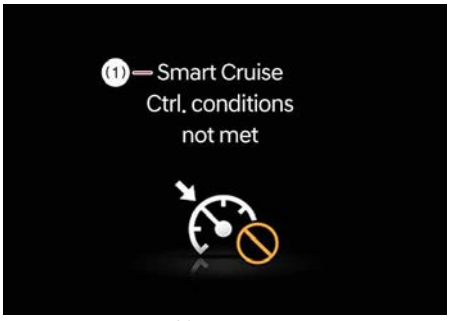
TIP

If Smart Cruise Control is temporarily canceled while the vehicle is at a standstill with the function activated, EPB (Electronic Parking Brake) may be applied.

WARNING

When Smart Cruise Control is temporarily canceled, the distance from the vehicle ahead will not be maintained. Always have your eyes on the road and, if necessary, engage the brake pedal to reduce your speed and maintain a safe distance.

Smart Cruise Control conditions not satisfied



OCL4M055106N

(1) **Smart Cruise Ctrl. conditions not met**

If you operate the Driving Assist button, (＋) switch, (－) switch, or ( ) switch when the Smart Cruise Control operating conditions are not satisfied, a warning message appears on the instrument cluster, and an audible warning sounds.

In traffic



OCL4M055107N

(1) **Use switch or pedal to accelerate**

In traffic, your vehicle will stop if the vehicle ahead of you stops. If the vehicle ahead starts moving, your vehicle will start moving, as well.
After you have stopped your vehicle and a certain period of time has passed, a warning message appears on the instrument cluster. Engage the accelerator pedal or push the (＋) switch, (－) switch, or ( ) switch to start driving.

NOTE

- When Highway Driving Assist (HDA) is active, the automatic departure time can be extended for a certain period.
- If an interior camera is equipped, the automatic departure time may be further extended depending on whether the driver is looking forward.
- Automatic departure may not occur if the driver is wearing sunglasses or if the driver's gaze cannot be detected.

Warning road conditions ahead



OLQ2A005027

(1) **Watch for surrounding vehicles**

When the function detects surrounding vehicles, a warning message appears on the instrument cluster, and an audible warning sounds to warn you about the road conditions ahead.

⚠ WARNING

- Always pay attention to vehicles or objects that may suddenly appear ahead of you and, if necessary, engage the brake pedal to reduce your speed and maintain a safe distance.
- Smart Cruise Control does not substitute for proper and safe driving. It is your responsibility to always check your speed and distance from a vehicle ahead.
- Smart Cruise Control may not recognize unexpected, sudden, or complex situations, so always pay attention to driving conditions and control the speed of your vehicle.
- Keep Smart Cruise Control OFF when you are not using it to avoid inadvertently setting a speed.
- Do not open any door or leave the vehicle while Smart Cruise Control is operating, even if the vehicle is stopped.
- Always be aware of the selected speed and distance ahead.
- Keep a safe distance according to the road conditions and vehicle speed. Driving at a high speed at too close a distance may result in a serious collision.
- When maintaining distance with a vehicle ahead, if that vehicle disappears from view, Smart Cruise Control may suddenly accelerate to the set speed. Always be aware of unexpected and sudden situations.
- The vehicle speed may decrease on an upward slope and increase on a downward slope.
- Always be aware of unexpected situations, such as when a vehicle cuts into your lane suddenly.
- When towing a trailer or something similar, your vehicle may experience frequent shifting and high RPM, and the performance of Smart Cruise Control may be compromised. Always drive with caution.
- Turn OFF Smart Cruise Control when your vehicle is being towed.
- Smart Cruise Control may not operate properly in areas with strong electromagnetic interference.
- Smart Cruise Control may not detect an obstacle ahead, leading to a collision. Always look ahead to prevent unexpected and sudden situations from occurring.

- When the vehicle is heavily loaded or driving on a slope, control may be difficult depending on road conditions. Pay close attention and, if necessary, use the brake pedal to manually control the speed.
- Vehicles frequently changing lanes ahead of you may cause a delayed Smart Cruise Control reaction, or may cause Smart Cruise Control to react to a vehicle that is actually in an adjacent lane. Always drive cautiously to prevent unexpected and sudden situations from occurring.
- Always be aware of your surroundings and drive safely, even when a warning message does not appear or an audible warning does not sound.
- Smart Cruise Control may not display a warning message or generate an audible warning if any other function's warning message is displayed or audible warning is generated at the same time.
- You may not hear the warning sound of Smart Cruise Control if your surroundings are noisy.
- The vehicle manufacturer is not responsible for any traffic violation or accident you cause.
- Always set the vehicle speed under the posted speed limit.
- If your driving style changes, the distance, acceleration, and reaction speed may change.

WARNING

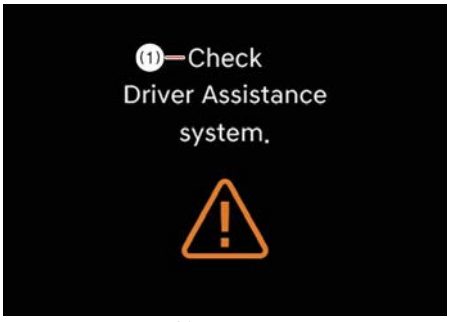
- You must drive your vehicle sufficiently for this system to analyze your actual driving style, including vehicle distance, acceleration, and reaction speed.
- Based on Driving Style may not reflect your driving style or the driving conditions, which could affect safe driving.
- If you are driving in inclement conditions, such as snow, rain, fog, or steep hills, Smart Cruise Control may not drive your vehicle according to your driving style.

TIP

- Smart Cruise Control may not operate for a few seconds after you restart the vehicle or initialize the front view camera or front radar.
- You may hear a sound when Smart Cruise Control engages the brake.
- Based on Driving Style may not reflect your driving style in unsafe ways, such as rapid acceleration.
- Based on Driving Style does not reflect any aspects of driving style besides vehicle distance, acceleration, and reaction speed.

Smart Cruise Control malfunction and limitations

Smart Cruise Control malfunction



OCL4M055096N

(1) **Check Driver Assistance system**

When Smart Cruise Control is not working properly, the Master warning light (⚠) appears on the instrument cluster, along with a warning message that lasts for several seconds. Have Smart Cruise Control inspected by an authorized Kia dealer.

Smart Cruise Control disabled



OCL4M055098N

(1) **Driver Assistance system limited. Radar blocked.**

When foreign material (such as snow or rain) covers the front radar cover or sensor, it can reduce the detection performance and temporarily limit or disable Smart Cruise Control.
A warning message and the Master warning light (⚠) display on the instrument cluster (and turn off after a certain period). This does not indicate a malfunction of Smart Cruise Control.
Smart Cruise Control should operate properly when you remove foreign materials (such as snow or rain) from the sensor. Always keep it clean.

TIP

- Even when a warning message does not appear on the instrument cluster temporarily, Smart Cruise Control may not operate properly.
- Smart Cruise Control may not operate properly in an open area where there is nothing to detect, or when foreign material covers the detection sensor after you turn your vehicle ON.

NOTE

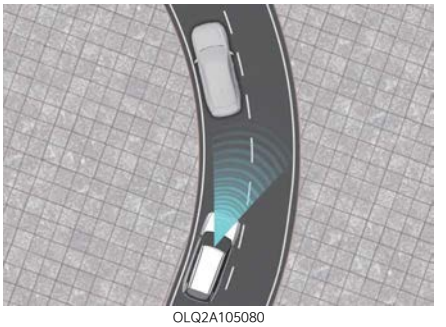
You can check the Smart Cruise Control status in the service message of the utility information view of the instrument cluster display window.

Limitations of Smart Cruise Control

Smart Cruise Control may operate abnormally or unexpectedly under the following circumstances:

- The detection sensor or its surrounding areas are contaminated or damaged.
- Washer fluid is continuously sprayed, or the wiper is ON.
- The camera lens is obscured by a windshield tint, film, or coating, damaged glass, or objects on the glass such as a sticker or insect.
- There is moisture or ice on the windshield.
- Glare from the sun obstructs the front view camera's field of view.
- Streetlights or light from an oncoming vehicle are reflected on a wet road.
- The temperature near the front view camera is very high or low.
- There is an object on the instrument panel.
- Your vehicle's surroundings are excessively bright or dark.
- The brightness changes suddenly (for example, when you enter or exit a tunnel).
- The brightness outside is low, and the headlights are not ON or are not bright.
- You are driving in heavy rain, snow, or thick fog.
- You are driving through steam, smoke, or shadows.
- Only part of a vehicle ahead is detected.
- A vehicle ahead has no tail lights or the tail lights are atypically located.
- The brightness outside is low, and the tail lights of a vehicle ahead are not on or are not bright.
- The glass surface is not clean or has scratches or other blemishes.
- Small particles, such as sand, with a different color than the lane surface contaminate the road.
- The type of detected object differs from the actual object.
- When objects that are easily detected by the front radar, such as guardrails or nearby vehicles, are present around the vehicle.
- There are low-height or small obstacles in front.
- The rear of a vehicle ahead is small or does not look normal (for example, tilted or overturned).
- A vehicle ahead has low or high ground clearance.
- A vehicle suddenly cuts in ahead of you.
- Your vehicle is being towed.
- Light from an object (such as a guardrail or nearby vehicle) reflects off the front radar.
- The bumper near the front radar is impacted or damaged, or the front radar is out of position.
- The temperature near the front radar is high or low.
- The vehicle ahead is made of material that does not reflect on the front radar.
- You are driving near a highway, interchange, or tollgate.
- You are driving on a slippery surface due to snow, rain, ice, and so on.
- You are driving on a curved road.
- A vehicle ahead is detected late.
- A vehicle ahead is suddenly blocked by an obstacle.

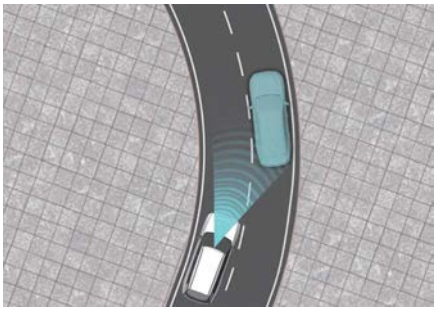
- A vehicle ahead suddenly changes lanes or reduces speed.
- A vehicle ahead is bent out of shape.
- A vehicle ahead is moving very fast or slow.
- You change lanes suddenly when there is a vehicle ahead.
- A vehicle ahead is covered with snow.
- Your driving is unstable.
- You are driving in a traffic circle and a vehicle ahead is not detected.
- You are continuously driving in a circle.
- Adverse road conditions cause excessive vehicle vibration.
- Your vehicle height is low or high due to heavy loads, abnormal tire pressure, and so on.
- You are driving:
  - In a parking lot.
  - Through a construction area, unpaved road, partially paved road, uneven road, speed bumps, and so on.
  - On a steep or curving road.
  - By a roadside with trees or streetlights.
  - On a narrow road with overgrown foliage.
  - Through electromagnetic waves, such as an area with strong radio waves or electrical noise.
- You are driving through a tunnel or covered bridge.
- You are driving near areas with a lot of metal, such as a construction zone, railroad, or road with metal plates.
- You are driving in wide open areas where there are few vehicles or structures.
- Driving on a curved road



OLQ2A105080

On curves, Smart Cruise Control may not detect a vehicle in the same lane, and may accelerate to the set speed. Your vehicle speed may rapidly decrease when a vehicle ahead is detected suddenly.

Select the appropriate set speed on curves, and engage the brake pedal or accelerator pedal according to the road and driving conditions ahead.

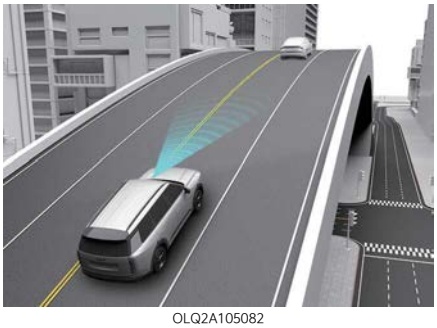


OLQ2A105081

Smart Cruise Control may reduce your vehicle speed due to the presence of a vehicle in an adjacent lane.

Check that the road conditions permit safe operation of Smart Cruise Control. If necessary, engage the brake pedal to reduce your speed and maintain a safe following distance.

- Driving on an inclined road

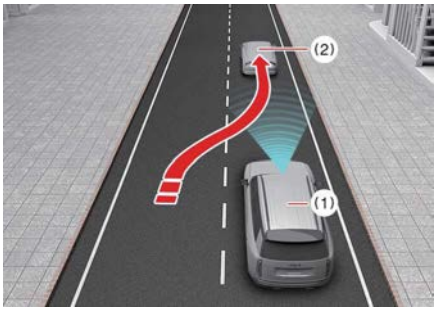


OLQ2A105082

When you drive uphill or downhill, Smart Cruise Control may not detect a moving vehicle in your lane, causing your vehicle to accelerate to the set speed. Your vehicle speed will rapidly decrease when a vehicle ahead is detected suddenly.

Select the appropriate set speed on inclines, and engage the brake pedal or accelerator pedal according to the road and driving conditions ahead.

- Changing lanes

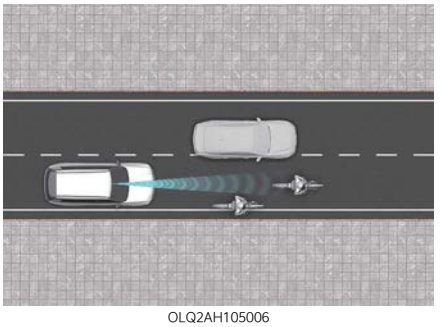


(1) Your vehicle
(2) Lane changing vehicle

OLQ2A105015

When a vehicle (2) moves into your lane from an adjacent lane, the sensor cannot detect it until it is in the detection range. Smart Cruise Control may not immediately detect the vehicle when it changes lanes abruptly. You must maintain a safe braking distance and, if necessary, engage the brake pedal to reduce your speed.

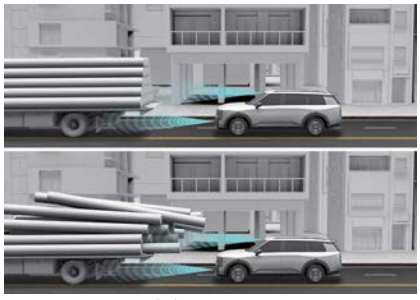
- Detecting a vehicle



OLQ2AH105006

The sensor cannot detect the following types of vehicles or objects:

- Vehicles driving to one side.
- Slow-moving or suddenly-decelerating vehicles.
- Vehicles with higher ground clearance, or vehicles carrying loads that stick out of the back of the vehicle.
- Vehicles with the front lifted due to heavy loads.
- Vehicles within approximately 6 ft (2m) of your vehicle.
- Oncoming vehicles.
- Stopped vehicles.
- Vehicles with a small rear profile, such as trailers.
- Narrow vehicles, such as motorcycles or bicycles.
- Specialty vehicles.
- Animals and pedestrians.

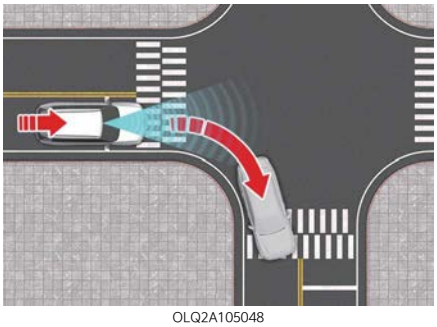


OLQ2AH105004_2

Always pay attention to the road and driving conditions and drive safely. If necessary, adjust your vehicle speed. The sensor cannot detect the vehicle ahead in the following cases:

- ◦ You are steering your vehicle.
- ◦ You are driving on narrow or sharply curved roads.

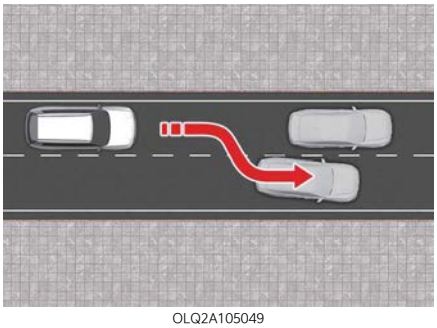
- When a vehicle ahead disappears from view at an intersection



OLQ2A105048

When a vehicle ahead disappears from view at an intersection, your vehicle may accelerate. Always pay attention to the road and driving conditions.

- When a vehicle ahead of you changes lanes



OLQ2A105049

When a vehicle ahead of you changes lanes, Smart Cruise Control may not immediately detect the new vehicle that is now ahead of you.

Always pay attention to the road and driving conditions.

- Always look out for pedestrians



OLQ2A105041

Always look out for pedestrians when your vehicle is maintaining a set distance from the vehicle ahead.

This device complies with Part 15 of the FCC rules.

Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. this device must accept any interference received, including interference that may cause undesired operation.

TIP

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Emergency Stop (ES)

Emergency Stop is a function designed to assist an unresponsive driver. If this system determines that the driver is unresponsive, the system can maintains the vehicle in the center of the road and assists in stopping through deceleration control.

Detecting sensor

The front camera and front radar are used as detection sensors to recognize vehicles ahead. Please refer to "Detecting sensor(s)" on page 461 for the applicable sensors and their locations.

NOTE

The front camera and front radar are used as detection sensors to recognize vehicles ahead. For more details on the precautions of the front view camera and front radar sensors, refer to "Forward Collision-avoidance Assist (FCA) (Sensor Fusion)" on page 464.

Emergency Stop operation

Operational Status

When Smart Cruise Control and Lane Following Assist are both active, Emergency Stop becomes operational.

NOTE

- Even if the Forward Attention Warning function is deactivated, the system will monitor the driver's attention when preparing for Emergency Stop. For detailed information on the driver monitoring system, refer to "Forward Attention Warning malfunction and limitations" on page 553.
- If the Forward Attention Warning is equipped and a malfunction occurs with the interior camera, Lane Following Assist cannot be activated.
- If the driver unfastens the seat belt, Lane Following Assist will turn off.
- Lane Following Assist cannot be activated if the driver is not wearing a seat belt.

Emergency Stop forewarning and Deceleration Control

If a Hands-Off warning continues or the driver's forward attention is not maintained, the system interprets this as driver unresponsiveness.

When driver unresponsiveness is detected, the system issues a forewarning through a warning message, warning sound, and steering wheel vibration.



(1) **Take control of the vehicle immediately.**

If the forewarning continues, steering control and deceleration control are activated to help bring the vehicle to a stop within the lane. The system indicates that Emergency Stop is in progress via a warning message, warning sound, and steering wheel vibration.



(1) **Take control of the vehicle immediately. Vehicle is stopping.**

Forewarning and Emergency Stop will be canceled in the following situations:

- The driver looks forward and holds the steering wheel to operate the vehicle
- Smart Cruise Control is temporarily deactivated or turned off
- Lane Following Assist is turned off

NOTE

- During Emergency Stop operation, the Smart Cruise Control vehicle distance is set and displayed at level 4. Once Emergency Stop is canceled, it returns to the previously set value.
- This includes the operation of Smart Cruise Control based on navigation and Highway Driving Assist.
- For detailed information on Smart Cruise Control, Navigation-based Smart Cruise Control, Lane Following Assist, and Highway Driving Assist, refer to "Smart Cruise Control (SCC)" on page 556, "Navigation-based Smart Cruise Control (NSCC)" on page 580, "Lane Following Assist (LFA)" on page 502, "Highway Driving Assist (HDA)" on page 586.
- The system uses forward inattention information from the interior camera (if equipped). For detailed information on the interior camera, refer to "Forward Attention Warning (FAW)" on page 551.

Stop

If the vehicle stops by **Emergency Stop**, a warning message, warning sounds, and hazard warning flashers will alert if **Emergency Stop** is operated.
After that, the vehicle will automatically operate the following procedures:
- Door unlock
- SOS Call connect (if equipped)
- EPB applied
- Shift to the P (Park) position.

Release

Emergency Stop will release when the following conditions are satisfied.



OLQ2A005122

(1) **Drive carefully**

- The driver focuses on the road ahead and controls the steering wheel
- If the accelerator pedal is strongly engaged and maintained
- If the brake pedal is strongly engaged
- If the Lane Following Assist button ( ) is pressed
- If the Driver Assistance button is pressed
- Hazard warning flasher button is pressed after the vehicle stops.
- The front seat door (driver or front passenger) is opened.
- The driver cancels an SOS call (if the function is provided).
- Shifting from P (Park) to another gear.

WARNING

After the vehicle comes to a stop due to an **Emergency Stop**, to activate **Lane Following Assist** or **Highway Driving Assist**, the vehicle needs to be restarted.

Emergency Stop malfunction and limitation

Emergency Stop malfunction



OLQ2A005123

(1) **Check Emergency Stopping function.**

When **Emergency Stop** is not working properly, the warning message and Master warning light (⚠) will appear on the cluster. If this occurs, have the function inspected by an authorized Kia dealer.

> **TIP**
>
> You can check the malfunction in the service message of the utility information view of the cluster display window.

Limitations of Emergency Stop

For more details on the limitations of the **Emergency Stop**, refer to "Smart Cruise Control (SCC)" on page 556, "Lane Following Assist (LFA)" on page 502.

Navigation-based Smart Cruise Control (NSCC) (if equipped)

When driving on a highway with Smart Cruise Control operating, Navigation-based Smart Cruise Control (NSCC) uses navigation system information to help maintain a safe speed according to road conditions.

TIP

- Navigation-based Smart Cruise Control is available only on certain highways.
  * A controlled access road has limited entrances and exits that allow uninterrupted high speed traffic flow. Only passenger cars and motorcycles are allowed on controlled access roads.
- Additional highways may become available for Navigation-based Smart Cruise Control in future navigation updates.

TIP

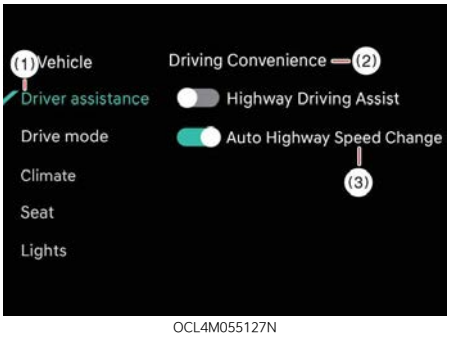
A dedicated road refers to a highway.

Highway Curve Zone Auto Slowdown

When driving at a high speed on a curve, Highway Curve Zone Auto Slowdown uses navigation system information to temporarily slow down or limit the acceleration of your vehicle to help you drive safely.

Navigation-based Smart Cruise Control settings

Auto Highway Speed Change



OCL4M055127N

(1) **Driver Assistance**
(2) **Driving Convenience**
(3) **Auto Highway Speed Change**

While the vehicle is ON, tap **Setup > Vehicle > Driver Assistance > Driving Convenience > Auto Highway Speed Change** on the infotainment system screen.

TIP

If there is a problem with Navigation-based Smart Cruise Control, you cannot turn the function ON in the settings menu.

Navigation-based Smart Cruise Control operation

Operating conditions

Navigation-based Smart Cruise Control works under the following conditions:

- You are operating Smart Cruise Control
- **Auto Highway Speed Change** setting in the cluster/infotainment system
- While driving on a dedicated road
- A controllable target (curved section) is detected ahead
- The Smart Cruise Control set speed is above the safe speed

TIP

For more information about operating Smart Cruise Control, refer to "Smart Cruise Control (SCC)" on page 556.

Navigation-based Smart Cruise Control display and control



OLQ2A005028

When Navigation-based Smart Cruise Control is operating, the instrument cluster displays the following indicators:

Navigation-based Smart Cruise Control standby

If all the operating conditions are satisfied, the green (NAV) indicator appears.

Navigation-based Smart Cruise Control operating

During speed control, the green (NAV) indicator blinks.

Navigation-based Smart Cruise Control pause/driver operation

If Smart Cruise Control cannot operate because Smart Cruise Control is temporarily deactivated or the route is recalculated, etc, the gray (NAV) indicator appears on the instrument cluster.
If you have engaged the accelerator pedal, the white (NAV) indicator blinks on the instrument

cluster.

WARNING

A warning message appears when the Navigation-based Smart Cruise Control is not able to slow your vehicle to a safe speed.



(1) **Drive carefully**

OLQ2A005003

TIP

The images or colors may display differently depending on the specifications of the instrument cluster or theme.

Highway Curve Zone Auto Slowdown

The vehicle decelerates depending on the curve ahead on the highway. After passing the curve, the vehicle accelerates to the Smart Cruise Control set speed.

TIP

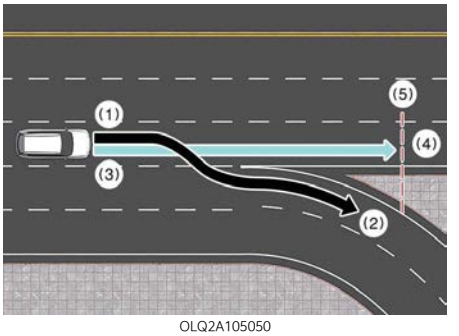
The deceleration starting point depends on driving speed and road curvature. The higher the speed, the earlier the deceleration starting point.

Navigation-based Smart Cruise Control limitations

Navigation-based Smart Cruise Control may operate abnormally or unexpectedly under the following circumstances:

- The navigation system is not working properly.
- Map information is not transmitted due to abnormal operation of the infotainment system screen.
- Map information differs from the actual road because of real-time GPS data or map information errors.
- The navigation is searching for a route while you are driving.
- GPS signals are blocked, such as in a tunnel.
- Traveling to a country where operation is not supported.
- Android Auto™ or Apple CarPlay® is operating.
- The controllable target (curved section) is close to the vehicle

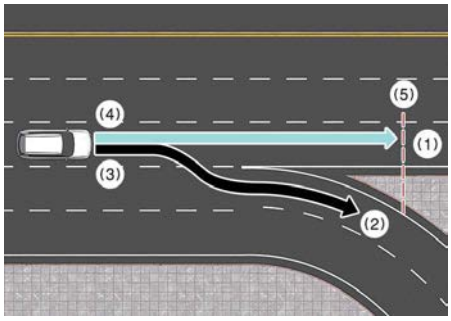
- The main lanes split into two or more and then merge
- Not driving along the navigation-guided route
- The destination is reset to recalculate the route (including real-time traffic-based recalculation) or the destination setting is canceled
- Driving on the entrances or exits of rest areas or drowsy driver rest areas on a dedicated road
- Short sections of splits or merges occur consecutively
- Lanes are added or removed in sections other than splits or merges
- Driving on roads without map information
- The performance of sensors detecting objects around the vehicle is at its limit
- Lane markings are unusual or of poor quality
- The navigation system cannot detect the vehicle's current position (for example, you are driving on elevated roads, including overpasses adjacent to general roads or nearby parallel roads).
- The navigation system updates while you are driving.
- The navigation system restarts while you are driving.
- The speed limit of some sections of the road changes.
- You are driving on a road under construction.
- You are driving on a controlled road.
- You are driving in bad weather, such as heavy rain or snow.
- You are driving on a sharply curved road.



OLQ2A105050

(1) Set route
(2) Branch line
(3) Driving route
(4) Main road
(5) Curved road section

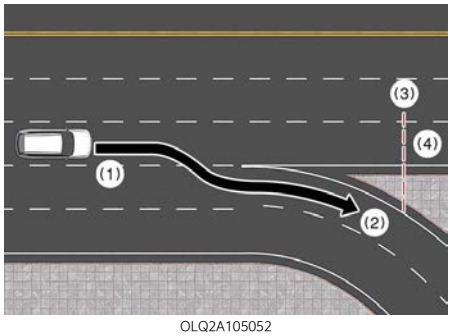
- When there is a difference between the navigation set route (branch line) and the driving route (main road), the Highway Curve Zone Auto Slowdown may not operate until the system recognizes the driving route as the main road.
- If the vehicle determines that the driving path is the main road of the dedicated roadway rather than the guided route, the Auto Highway Speed Change Adjustment function is activated. However, depending on the distance between the vehicle's current position and the curved section, as well as the vehicle's current speed, acceleration or deceleration may be insufficient or may occur abruptly.



(1) Main road
(2) Branch line
(3) Driving route
(4) Set route
(5) Curved road section

OLQ2A105051

- When the navigation route (main road) and driving route (branch line) differ, the Highway Curve Zone Auto Slowdown function temporarily operates based on the main road curve information.
- When the navigation system determines that you are driving off-route by entering the highway change or junction, Highway Curve Zone Auto Slowdown function does not operate.



(1) Driving route
(2) Branch line
(3) Curved road section
(4) Main road

OLQ2A105052

- If you do not set a navigation destination, Highway Curve Zone Auto Slowdown function operates 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 based on navigation information about the curved section of the highway.

⚠ WARNING

- Navigation-based Smart Cruise Control is a convenience function, not a substitute for safe driving practices. Always keep your eyes on the road. It is your responsibility to avoid violating traffic laws.
- Navigation-based Smart Cruise Control operates using road information provided by the navigation system. The navigation's speed limit information may differ from the actual speed limit. It is your responsibility to check the speed limit where you are driving.
- The Auto Highway Speed Change automatically turns off when the vehicle leaves the main lanes of a dedicated road and enters general roads classified as national roads or below, or enters facilities such as rest areas or entrances/exits (IC/JC) on the dedicated road. Always pay attention to the road and driving conditions.

- Navigation-based Smart Cruise Control may not operate due to the presence of vehicles ahead of yours and their driving conditions. Always pay attention to the road and driving conditions.
- When towing a trailer or something similar, your vehicle's deceleration may be insufficient. Always drive with caution.
- After you pass through a highway tollgate, Navigation-based Smart Cruise Control operates based on the first lane. If you enter another lane, Navigation-based Smart Cruise Control might not operate properly.
- Your vehicle accelerates if you engage the accelerator pedal while Navigation-based Smart Cruise Control is operating. The function does not decelerate your vehicle. If you engage the accelerator pedal too lightly, the vehicle may decelerate.
- If you engage and then release the accelerator pedal while Navigation-based Smart Cruise Control is operating, the vehicle may not decelerate sufficiently, or it may rapidly decelerate to a safe speed.
- If the curve is too large or too small, Navigation-based Smart Cruise Control may not operate.
- Towing a trailer or installing a carrier may reduce control stability. Disable the function if necessary and always drive with caution.
- Do not use the system when towing another vehicle or when other equipment that may affect sensor operation or vehicle balance is installed, as the system may not operate properly.

⚠ WARNING

- A time gap could occur between the navigation system's guidance and when Navigation-based Smart Cruise Control operation starts and ends.
- The speed information on the instrument cluster may differ from the navigation.
- Even if you are driving at a speed lower than the Smart Cruise Control set speed, acceleration may be limited by curved road sections ahead.
- If Navigation-based Smart Cruise Control is operating while you leave the main road to enter an interchange, junction, rest area, and so on, the function may operate for a certain period.
- Deceleration by Navigation-based Smart Cruise Control may feel insufficient due to road conditions such as uneven road surfaces and narrow lanes. If you feel the deceleration is insufficient, engage the brake pedal to slow the vehicle.

This device complies with Part 15 of the FCC rules.

Operation is subject to the following two conditions:

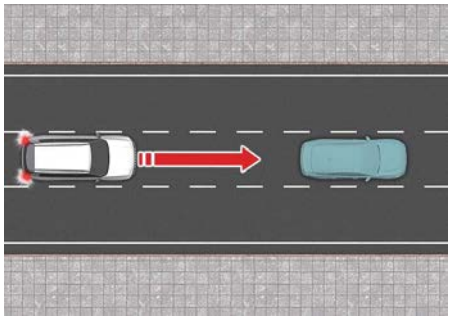
1. This device may not cause harmful interference, and
2. this device must accept any interference received, including interference that may cause undesired operation.

ⓘ TIP

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Highway Driving Assist (HDA) (if equipped)

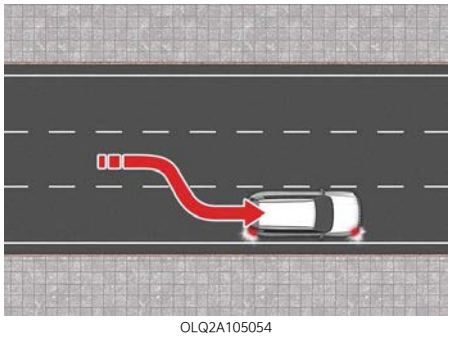
Highway Driving Assist



OLQ2A105053

Highway Driving Assist is designed to detect lane marking and vehicles ahead to help maintain your vehicle's following distance and set speed as well as center your vehicle in the lane while driving on a highway. It operates on the main lanes of highways, urban expressways, and motorways, and does not operate on branch roads (IC/JC).

Highway Lane Change Assist (if equipped)



OLQ2A105054

Highway Lane Change Assist can help you change lanes in the direction you operate the turn signal switch (if the function determines a lane change is possible).

TIP

- Highway Driving Assist is only available on controlled access roads on certain highways.
  * A controlled access road has limited entrances and exits that allow uninterrupted high speed traffic flow. Only passenger cars and motorcycles are allowed on controlled access roads.
- Additional highways may be added by future navigation updates.

Highway Driving Assist operates on highway main roads, not interchanges or junctions.

Detection sensor

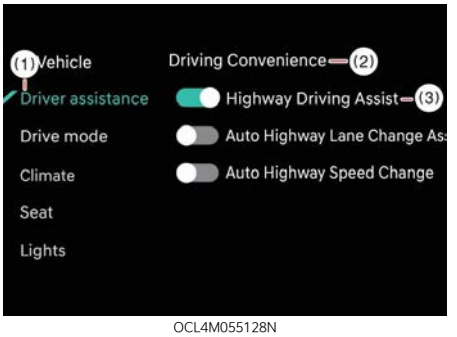
Please refer to "Detecting sensor(s)" on page 461 for the applicable sensors and their locations.

TIP

For detailed limitations of the front camera, front radar, front side radar, and rear side radar sensors, refer to "Forward Collision-avoidance Assist malfunction and limitations" on page 484, "Blind-Spot Collision-avoidance Assist malfunction and limitations" on page 514.

Refer to "Forward Attention Warning malfunction and limitations" on page 553 for detailed limitations of the interior camera sensor.

Highway Driving Assist settings



OCL4M055128N

(1) **Driver Assistance**
(2) **Driving Convenience**
(3) **Highway Driving Assist**

While the vehicle is ON, tap **Setup** > **Vehicle** > **Driver Assistance** > **Driving Convenience** on the infotainment system screen to set options for each function.

If you select Highway Driving Assist, the function can help you maintain a safe following distance and the set speed as well as center the vehicle in your lane.

Highway Lane Change Assist (if equipped)

If you select Highway Lane Change Assist, the function can help you change lanes safely.

WARNING

For your safety, change the settings only after parking the vehicle at a safe location.

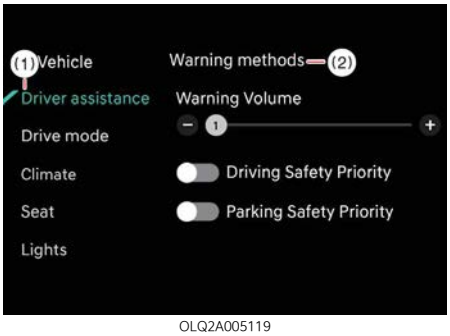
CAUTION

- Towing a trailer or installing a carrier may reduce control stability. If necessary, disable the function and always drive with caution.
- Do not use the system when towing another vehicle or when other equipment that affects sensor operation or vehicle balance is installed, as it may not operate properly.
- The Highway Lane Change Assist function (if equipped) may not operate properly when a trailer, carrier, or other equipment is installed, or when towing another vehicle. Do not use the function in these cases.
- When connecting a trailer or carrier, set the trailer or carrier menu (if equipped). If the driver manually sets the menu or the trailer or carrier connection is automatically recognized through genuine parts, the functions of the driver assistance system may be limited. Please refer to "Driver assistance system limitations" on page 653 and always drive with caution.

TIP

- To use Highway Lane Change Assist, Highway Driving Assist must be active.
- If there is a problem with the Highway Lane Change Assist function, you cannot change the settings and should have the function inspected by an authorized Kia dealer.
- The Highway Driving Assist and Highway Lane Change Assist functions maintain their last settings when you restart the vehicle.

Warning Methods



OLQ2A005119

(1) **Driver Assistance**
(2) **Warning Methods**

To change the Warning Methods settings while the vehicle is ON, tap **Setup > Vehicle > Driver Assistance > Warning Methods** on the infotainment system screen. You can change the following settings:

- **Warning Volume**: Adjusts the volume of the warning sound.
- **Driving Safety Priority**: Lowers all other audio volumes when the Driving Safety system sounds a warning.

TIP

- Your **Warning Methods** settings may apply to the **Warning Methods** of other driver assistance systems.
- **Warning Methods** maintain their last settings when you turn OFF and restart the vehicle.
- The **Warning Methods** setting menu may not be available on all vehicles.

Highway Driving Assist operation

Highway Driving Assist

Display and control

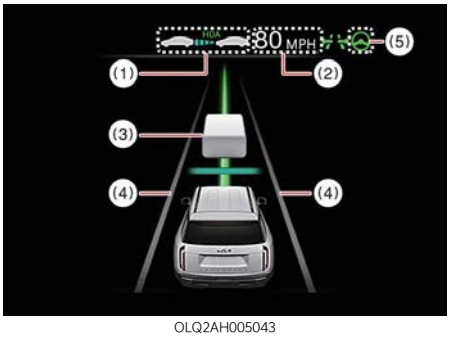
The Highway Driving Assist operation status is visible in the Driving Assist view on the instrument cluster. For more information, refer to "LCD display modes" on page 164.

Standby State



OLQ2AH005042

Operating State



OLQ2AH005043

The Highway Driving Assist status displays on the instrument cluster as follows:

(1) Highway Driving Assist indicator, whether there is a vehicle ahead and the selected distance level is displayed.
- Green: Operating
- Gray: Standby
- White blinking: Accelerator engaged
- Unlit: OFF

(2) Set speed
(3) Whether there is a vehicle ahead and the selected headway
(4) Whether the lane is detected or not
(5) Lane Following Assist indicator

TIP

- For more information about the display symbols and colors, refer to "Lane Following Assist (LFA)" on page 502 and "Smart Cruise Control (SCC)" on page 556.
- The images or colors may display differently depending on the specifications of the instrument cluster or theme.

Turning on Highway Driving Assist

Highway Driving Assist operates under the following conditions:

- Press the Drive Assist button to turn Highway Driving Assist ON while driving on controlled access roads.
- When entering a highway main road while Smart Cruise Control is operating, Highway Driving Assist will not turn ON if Lane Following Assist is turned OFF.

Hands-off warning



OCL4M055099N

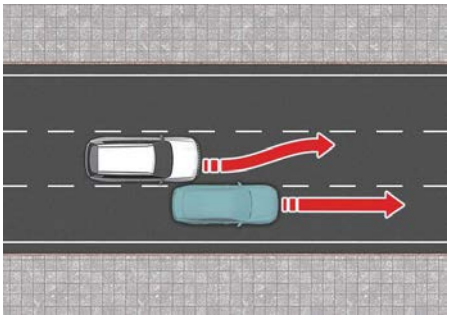
(1) **Keep hands on steering wheel**

If you remove your hands from the steering wheel for a few seconds, a warning message appears and an audible warning sounds in two stages:

- First stage: Warning message
- Second stage: Warning message (red steering wheel) and audible warning

If the steering wheel continues to be left unattended, the Emergency Stop (ES) function will activate. For detailed information, refer to "Emergency Stop (ES)" on page 576.

Driving to one side within lane (if equipped)



OLQ2A105055

If a vehicle near you is driving at a close distance when your vehicle speed is above 40 mph (60 km/h), your vehicle will control steering toward the opposite direction to assist with safe driving. If there are vehicles driving close to you on both sides of your lane, the function will not steer your vehicle to the opposite side of the lane.

Highway Driving Assist standby

If Smart Cruise Control is temporarily canceled while Highway Driving Assist is operating, Highway Driving Assist switches to standby, but Lane Following Assist continues to operate.

TIP

- After a stop caused by Emergency Stop, if Emergency Stop is canceled, Highway Driving Assist must be restarted to operate again.
- If an interior camera is equipped, Highway Driving Assist operation may be restricted when the driver's status cannot be detected.

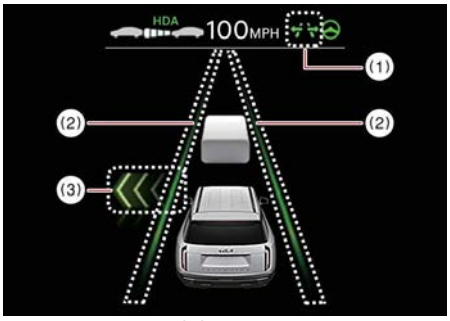
Highway Lane Change Assist (if equipped)

Display and control

The Highway Lane Change Assist status is visible on the instrument cluster. For more information, refer to "LCD display modes" on page 164.

The Highway Lane Change Assist status is displayed on the instrument cluster as follows:

Ready/Operating



OLQ2A005031

Standby/Canceled



OLQ2AH005044

(1) Highway Lane Change Assist indicator
- Green (): Ready
- Green () blinking: Operating
- Gray (): Standby
- White () blinking: Canceled (displays for a short time after cancellation)

(2) Lane line

The lane line displays with the same color as the Highway Lane Change Assist indicator (1). However, the lane detection availability is shown on Standby.

(3) Green arrow and shade

The green arrow appears when a certain amount of time has passed after the function starts operating and until the lane change is completed.

(4) Message
- A message appears if Highway Lane Change Assist cannot operate when you use the turn signal lever.
- A message appears when Highway Lane Change Assist is canceled while operating.

To turn Highway Lane Change Assist ON, use the **Driving Assist** or **Lane Driving Assist** button.

Turning ON Highway Lane Change Assist



OCL4M055110N

(1) **Press OK button to enable Lane Change Assist**

Highway Lane Change Assist is ready to operate when the function is ON and the following conditions are satisfied:

- Highway Driving Assist is operating.
- Lane Following Assist is operating.
- Your vehicle is ON and detects another vehicle behind more it than once.
- Your speed is above 20 mph (30 km/h).
- When driving 20-40 mph (30-60 km/h), your vehicle recognizes other vehicles in the left and right adjacent lanes, and there is no risk of collision when changing lanes.
- The instrument cluster does not display the hands-off warning.
- Hazard lights are OFF.

TIP

- While the Lane Change Assist function is ON, Lane Following Assist will not cancel, even if the turn signal indicator or hazard lights are operating.
- Lane Change Assist automatically turns OFF when you drive in the following conditions:
  - There is 1 driving lane.
  - Roads lack physical center separations structures, such as guardrails.
  - A pedestrian or cyclist is on the road ahead.
- If you drive below 15 mph (25 km/h) when Lane Change Assist is ready to operate, the function's status changes to standby.
- If you drive 20-40 mph (30-60 km/h) and your vehicle does not detect other vehicles in the right or left adjacent lanes, the Lane Change Assist status changes to standby.
- The Lane Change Assist status changes to standby if a risk of collision is detected.
- The images or colors may display differently depending on the specifications of the instrument cluster or theme.

WARNING

When Highway Lane Change Assist turns OFF, Steering Assist is temporarily canceled. Always be cautious when driving.

Highway Lane Change Assist operation



OLQ2A105056

Highway Lane Change Assist operates when the function's status is ready, you push the turn signal lever to the (1) or (2) position, and the following conditions are satisfied:

- Your hands are on the steering wheel.

- The lane change direction has no risk of collision.
- You are driving on a 2-lane road with broken lines of any color in the direction of the lane change.
- There are no Forward Collision-Avoidance Assist or Blind Spot Collision-Avoidance Assist warnings.
- You are driving in the center of the lane, not close to one side.
- The road you are on or where you are about to change lanes is a road that meets Highway Lane Change Assist's operation requirements.

TIP

- When you turn the turn signal lever to the (1) position, Highway Lane Change Assist operates. If you then turn the turn signal lever to neutral, Highway Lane Change Assist cancels before crossing the lane line.

  Highway Lane Change Assist does not cancel after you cross the lane line, but the function does cancel and the turn signal turns OFF when you complete your lane change.
- When you turn the turn signal lever to the (2) position for a certain amount of time, the green arrow appears. Highway Lane Change Assist will still operate if you release the turn signal lever back to its neutral position.
- While you are changing lanes, the turn signal indicator blinks even if you do not hold the turn signal lever. The turn signal indicator turns OFF when you complete your lane change.

Highway Lane Change Assist standby

Highway Lane Change Assist enters the standby state when 1 of its ready state conditions is not satisfied or when driving on the following types of roads:

- Main highway roads within a certain distance of a tollgate
- Dead ends without an interchange or junction
- Sharply curved roads
- Roads with narrow lanes

Canceling Highway Lane Change Assist

Highway Lane Change Assist is canceled when:

- You set the turn signal lever to the opposite direction of the lane change.
- You turn the steering wheel too sharply.
- You turn the turn signal lever to the (1) position while Lane Change Assist is operating, then return the turn signal lever to the neutral position before you change lanes.

WARNING

- Highway Lane Change Assist is canceled under any of the following circumstances:
  - You turn Highway Driving Assist OFF.
  - You turn OFF or temporarily cancel Lane Following Assist or Smart Cruise Control.
  - The instrument cluster displays the hands-off warning message.
  - You turn the turn signal lever to the (1) position.
  - You turn the hazard lights ON.

- The instrument cluster displays a Forward Collision-Avoidance Assist or Blind-Spot Collision-Avoidance Assist warning message.
- Your vehicle detects a possible collision in an adjacent lane, even without Forward Collision-Avoidance Assist and Blind Spot Collision-Avoidance Assist warnings.
- The target lane ends.
- Your vehicle does not detect the target lane.
- There is a problem with the turn signal lights.
- The function is OFF because you turned it OFF in the settings menu, the road changes to a one-way, there is an intersection or crosswalk ahead, there is a pedestrian or cyclist in the driving lane, or you enter a road with no structure, such as a median strip or guardrail.
- If you drive below 15 mph (25 km/h) while the Highway Lane Change Assist status is ready, the function status changes to standby.
- If you drive 20-40 mph (30-60 km/h) and your vehicle does not detect other vehicles in the right or left adjacent lanes, the Lane Change Assist status changes to standby.
- Your vehicle detects a risk of collision.

- If you cancel Highway Lane Change Assist while it is operating, the vehicle may steer toward the center of the driving lane or steering assist may stop, depending on driving conditions. Always pay attention to the road and driving conditions.
- Highway Lane Change Assist may not operate normally on roads with pedestrians or cyclists, such as an intersection or crosswalk.

Highway Driving Assist malfunction and limitations

Highway Driving Assist malfunction



OCL4M055096N

(1) **Check Driver Assistance system**

When Highway Driving Assist is not working properly, the Master warning light (⚠) appears on the instrument cluster, along with a warning message that lasts for several seconds. Have Highway Driving Assist inspected by an authorized Kia dealer.

⚠ WARNING

- You are responsible for driving safely and controlling the vehicle.
- Always keep your hands on the steering wheel while driving.

- Highway Driving Assist is a supplemental function that assists you in driving the vehicle. It is not a completely autonomous driving system. Always check road conditions and take the appropriate actions to drive safely.
- Always keep your eyes on the road. It is your responsibility to avoid violating traffic laws. Kia is not responsible for any traffic violations or accidents you cause.
- Highway Driving Assist may not recognize all traffic situations. Highway Driving Assist may not detect possible collisions due to the function's limitations. Always be aware of the function's limitations. The function may not detect obstacles (such as vehicles, motorcycles, bicycles, pedestrians, or unspecified objects) or structures (such as guardrails or tollgates) that may collide with your vehicle.
- Highway Driving Assist automatically turns OFF in the following situations:
  - When driving on roads where Highway Driving Assist is not operable, such as rest areas, intersections, junctions, and so on.
  - When the navigation system does not operate properly (for example, when it is updating or restarting).
- Highway Driving Assist may inadvertently operate or turn OFF depending on road conditions, navigation information, and surroundings.
- The Lane Following Assist function may be temporarily disabled when the front view camera cannot detect lane lines properly or when the hands-off warning appears.
- You may not hear the Highway Driving Assist warning sounds if your surroundings are noisy.
- If you drive your vehicle above a certain speed on a curve, your vehicle may veer to one side or depart from the driving lane.
- If you are towing a trailer or another vehicle, turn Highway Driving Assist OFF for safety reasons.
- The hands-off warning message may appear early or late depending on road conditions and how you steer. Always keep your hands on the steering wheel while driving.
- For your safety, please read the owner's manual before using Highway Driving Assist.
- Highway Driving Assist will not operate when you start the vehicle or initialize the detection sensors or navigation.

TIP

You can check it in the service message of the utility information view of the instrument cluster display window.

Limitations of Highway Driving Assist

Highway Driving Assist and Highway Lane Change Assist may operate abnormally or unexpectedly under the following circumstances:

- The map information differs from the actual road because the navigation system is out of date.
- The map information differs from the actual road because of real-time GPS data or map information errors.
- The infotainment system is overloaded due to simultaneously performing functions such as route search, video playback, voice recognition, and so on.
- GPS signals are blocked when you drive in areas such as a tunnel.

- You veer off-course, reset the navigation route by changing the destination (including changing the route according to real-time traffic information), or cancel the route to the destination.
- The vehicle enters a service or rest area.
- Android Auto™ or Apple CarPlay® is operating.
- The navigation system cannot detect the vehicle's current position (for example, you are driving on elevated roads, including overpasses adjacent to general roads or nearby parallel roads).
- Your vehicle fails to recognize white single dash lane lines and road boundaries.
- Some lanes are temporarily restricted.
- The middle of the road does not have a physical separation structure, such as a center median.
- The lane you intend to change to is a bus lane or variable lane.
- You have a trailer, carrier, or other equipment attached to your vehicle.

NOTE

For more information on the front camera, front radar, front corner radar, and rear corner radar sensors, refer to "Forward Collision-avoidance Assist (FCA) (Sensor Fusion)" on page 464.

This device complies with Part 15 of the FCC rules.

Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. this device must accept any interference received, including interference that may cause undesired operation.

TIP

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Rear View Monitor (RVM) (if equipped)

The Rear View Monitor (RVM) displays the area behind your vehicle to help you park safely.

Detection sensor

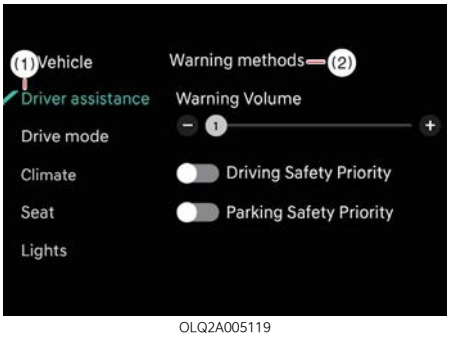
Please refer to "Detecting sensor(s)" on page 461 for the applicable sensors and their locations.

NOTE

Washer fluid can be sprayed onto the wide-angle rear camera lens to remove foreign substances, dust, and other contaminants.
Refer to "Camera cleaning system" on page 189.

Rear View Monitor settings

Warning Methods



OLQ2A005119

(1) **Driver Assistance**
(2) **Warning Methods**

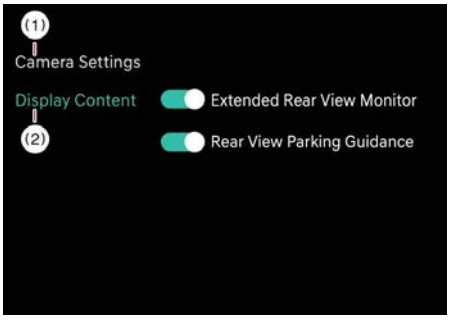
To change the Warning Methods settings while the vehicle is ON, tap **Setup > Vehicle > Driver Assistance > Warning Methods** on the infotainment system screen. You can change the following settings:

- **Parking Safety Priority**: Lowers all other audio volumes when Rear View Monitor is active.

TIP

- Your **Warning Methods** settings may apply to the **Warning Methods** of other driver assistance systems.
- **Warning Methods** maintain their last settings when you turn OFF and restart the vehicle.
- The **Warning Methods** setting menu may not be available on all vehicles.

Camera Settings



OLQ2AH005045

(1) **Camera Settings**
(2) **Display Content**

While the vehicle is ON, tap the setup icon (⚙) or tap **Setup > Vehicle > Driver Assistance > Parking Safety > Camera Settings** on the infotainment system screen to change the Rear View Monitor settings.

Extended Rear View Monitor

If you activate the Extended Rear View Monitor setting, the rear camera view continues to display when you shift from R (Reverse) to N (Neutral) or D (Drive).

Rear View Parking Guidance

If you activate the Rear View Parking Guidance setting, Rear View Parking Guidance and Top Rear View Parking Guidance display on the rear monitor.

Display settings

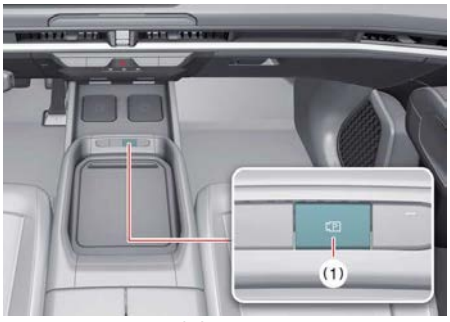
You can set the brightness (day/night) and contrast of the camera image in Display settings.

TIP

- Depending on your vehicle's specifications, the settings menu may not be available.
- The horizontal lines displayed by Rear View Parking Guidance indicate distances from your vehicle of 20 in (0.5 m), 40 in (1 m), and 91 in (2.3 m).
- The horizontal scale displayed by Top View Parking Guidance indicates liftgate opening distances and the 60 in (1.5 m) distance from your vehicle.

Rear View Monitor operation

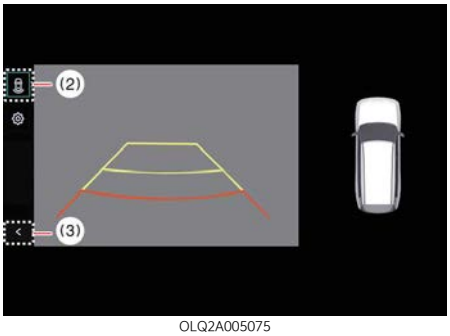
Parking/View button



OLQ2A105057

(1) Parking/View button
To turn Rear View Monitor ON, press the Parking/View button (1).
To turn Rear View Monitor OFF, press the Parking/View button (1) again.

Rear view



OLQ2A005075



OLQ2A105058

(2) View switching button
(3) back button
(4) infotainment system operation button

Operating conditions

Rear View turns ON under the following conditions:
- When you shift the gear to R (Reverse).
- When you press the Parking/View button (1) while the gear shift is in P (Park) or N (Neutral). If the gear is in N (Neutral), vehicle speed must be lower than 6 mph (10 km/h) to operate the Rear View function.

To select Rear Top View, Rear View, or Rear Wide View, press the View switching button (2) on the Rear Top View screen.

Non-operating conditions

Rear View turns OFF when you are parking under the following conditions:
- When you shift the gear to P (Park).
- When you press the Parking/View button (1).
- When you press the back button (3) on the Rear View Monitor screen.
- When you press the infotainment system operation button (4).
- The gear is in N (Neutral) or D (Drive) and the vehicle speed is above 6 mph (10 km/h).

TIP

When the gear is in R (Reverse), Rear View does not turn OFF.

Extended Rear View Monitor

To help you park safely, the Extended Rear View Monitor function maintains the Rear View display when you shift the gear from R (Reverse) into N (Neutral) or D (Drive).

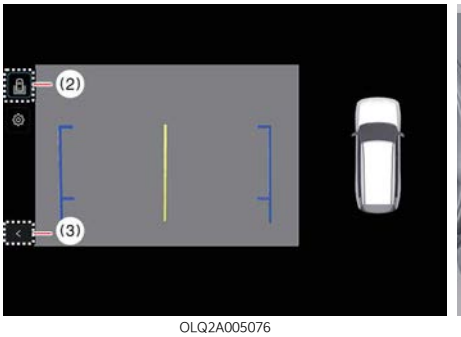
Operating conditions

Extended Rear View Monitor operates when you shift the gear from R (Reverse) into N (Neutral) or D (Drive) and your vehicle speed is below 6 mph (10 km/h).

Non-operating conditions

Extended Rear View Monitor turns OFF under the following conditions:
- When you shift the gear to P (Park).
- When you press the Parking/View button (1).
- When you press the back button (3) on the Rear View Monitor screen.
- When you press the infotainment system operation button (4).
- Vehicle speed is above 6 mph (10 km/h).

Rear Top View



OLQ2A005076



OLQ2A105058

(2) View switching button
(3) back button
(4) infotainment system operation button
The Rear Top View displays an image of the vehicle from above to help you determine the space

between your vehicle and another vehicle or object when you are parking.
To turn the Rear Top View ON, press the Rear Top View button.

TIP

- Rear View video will not turn OFF when the gear is in Reverse (R), regardless of which view you select.
- The Rear View and Rear Top View can display Rear Parking Guidelines. To display Rear Parking Guidelines, tap **Setup > Vehicle > Driver Assistance > Parking Safety > Camera Settings > Display Information > Rear Parking Guidelines** on the infotainment system screen's settings menu. Note that Rear Parking Guidelines are not displayed on the Rear View while parking.

Rear View Monitor malfunction and limitations

Rear View Monitor malfunction

When Rear View Monitor malfunctions, the image on the screen may appear green, blue, or black.

Visit an authorized Kia dealer if the Rear View Monitor does not work properly, the screen flickers, or the camera image does not display properly.

Limitations of Rear View Monitor

When your vehicle is stopped for a long time in winter or your vehicle is parked in an indoor parking lot, the exhaust fumes may temporarily blur the image.

The screen may appear abnormally under the following circumstances:

- When the liftgate is open

WARNING

- The Wide Rear View camera does not encompass the complete area behind your vehicle. Always check the area behind your vehicle using the inside and outside rearview mirrors before parking or backing up your vehicle.
- Distance shown on the Rear View Monitor screen may differ from actual distance due to image calibration by the Wide Rear View camera. If your vehicle is tilted due to loaded cargo, Rear Parking Guidelines may be incorrect. When you are parking or driving, be sure to directly check your vehicle's surroundings for safety.
- Always keep the wide-rear view camera lens clean to maintain optimal camera performance and Rear View Monitor operation. Do not clean the camera lens with chemical solvents that may damage it, including strong detergents that contain high alkaline or volatile organic solvents such as gasoline, acetone, and so on.
- Driving with the liftgate open is abnormal. For your safety, be aware and drive safely.

Surround View Monitor (SVM) (if equipped)

Surround View Monitor (SVM) can assist you with parking by allowing you to see around the vehicle.

Detection sensor

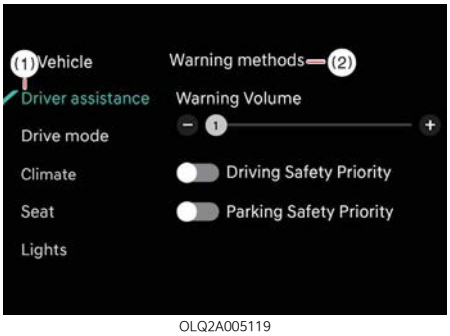
Please refer to "Detecting sensor(s)" on page 461 for the applicable sensors and their locations.

NOTE

Washer fluid can be sprayed onto the wide-angle rear camera lens to remove foreign substances, dust, and other contaminants.
Refer to "Camera cleaning system" on page 189.

Surround View Monitor settings

Warning Methods



OLQ2A005119

(1) **Driver Assistance**
(2) **Warning Methods**

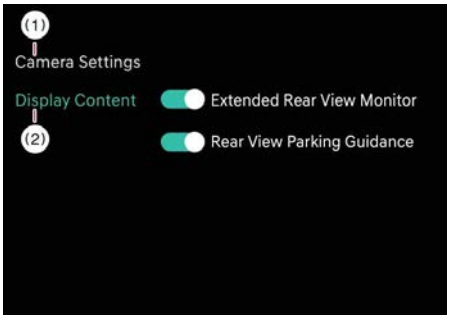
To change the Warning Methods settings while the vehicle is ON, tap **Setup > Vehicle > Driver Assistance > Warning Methods** on the infotainment system screen. You can change the following settings:

- **Parking Safety Priority**: Lowers all other audio volumes when Surround View Monitor is active.

TIP

- Your **Warning Methods** settings may apply to the **Warning Methods** of other driver assistance systems.
- **Warning Methods** maintain their last settings when you turn OFF and restart the vehicle.
- The **Warning Methods** setting menu may not be available on all vehicles.

Camera Settings



OLQ2AH005045

(1) **Camera Settings**
(2) **Display Content**

While the vehicle is ON, tap the setup icon (⚙) or tap **Setup > Vehicle > Driver Assistance > Parking Safety > Camera Settings** on the infotainment system screen to change the Surround View Monitor settings.

Display Contents: Choose which information displays on the parking assistance screen.

Parking Distance Warning

If you select the Parking Distance Warning, the top-right corner of the Surround View Monitor screen displays the Parking Distance Warning when the warning is activated.

Rear View Parking Guidance

If you select **Rear View Parking Guidance**, the function displays in the Rear View.

Top View Parking Guidance

If you select **Top View Parking Guidance**, the function displays on the top right of the Surround View Monitor screen when Front or Rear Top View activates.

Display settings

You can set the brightness (day/night) and contrast of the camera image in Display settings.

TIP

- Depending on your vehicle's features and specifications, the settings menu may not be available.
- The horizontal Parking Guidance lines displayed on the Surround View Monitor indicate distances from your vehicle of 20 in (0.5 m), 40 in (1 m), and 91 in (2.3 m).
- The horizontal scale displayed by Top View Parking Lines indicates the liftgate opening distances and 79 in (2 m) from your vehicle.

Surround View Monitor Auto On

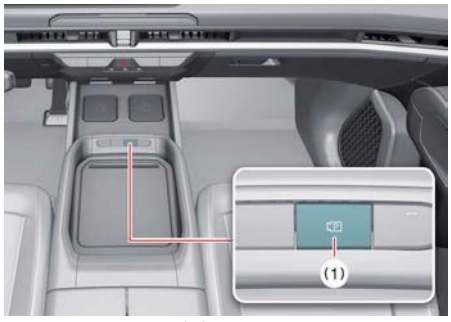
While the vehicle is ON, tap **Setup > Vehicle > Driver Assistance > Parking Safety > Surround View Monitor Auto On** on the infotainment system screen to use the function.

TIP

For more information about Surround View Monitor Auto On, refer to "Surround View Monitor Auto On" on page 605.

Surround View Monitor operation

Parking/View button



OLQ2A105057

(1) Parking/View button
To turn Surround View Monitor ON, press the Parking/View button (1).
Press the button again to turn Surround View Monitor OFF.

Front-view



OMQ4A055117



OLQ2A105058

(2) View switching button
(3) back button
(4) infotainment system operation button
The front-view function assists with safe driving by displaying activity ahead of the vehicle on the navigation system, according to your selected settings.

Parking

The Surround View Monitor's Front-view function activates when you are parking under the fol-

lowing conditions:

- Your vehicle's gear is in P (Park), N (Neutral), or D (Drive) at a speed below 6 mph (10 km/h), and you press the Parking/View button (1).
- You shift the gear from R (Reverse) to N (Neutral) or D (Drive) at a speed below 6 mph (10 km/h).
- Forward Parking Distance Warning warns you while the gear is set to D (Drive).

  *(If you have selected **Setup > Vehicle > Driver Assistance > Parking Safety > Surround View Monitor Auto On** on the infotainment system screen).

Press the view switching button (2) on the Surround View Monitor to select Top View, Front View, Side View, or Wide View.

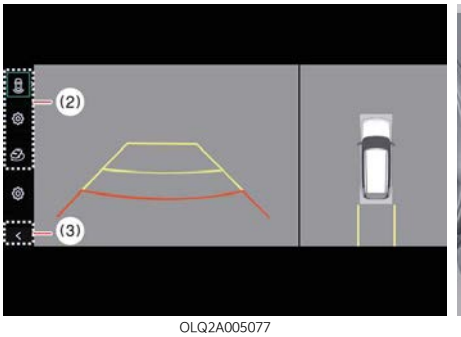
The Surround View Monitor's front-view function turns OFF when you are parking under the following conditions:

- You shift the gear to P (Park) or R (Reverse).
- You press the Parking/View button (1).
- You press the back button (3) on the Surround View Monitor screen.
- You press the infotainment system power button (4).
- You drive above 6 mph (10 km/h).

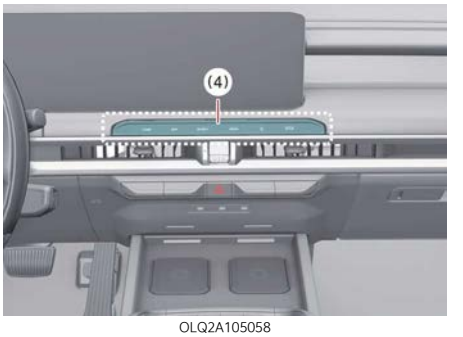
TIP

When the Surround View Monitor Front View activates, the last view you used displays.

Rear-view



OLQ2A005077



OLQ2A105058

(2) View switching button

(3) back button

(4) infotainment system operation button

The Surround View Monitor's Rear-view function assists you with safe parking by displaying activity behind the vehicle on the navigation system, according to your selected settings.

Parking

The Surround View Monitor's Rear-view function activates when you are parking under the following conditions:

- You press the Parking/View button (1), then select Rear View with the view switching button (2) while the gear is set to P (Park), N (Neutral), or D (Drive) with a speed below 6 mph (10 km/h).
- You shift the gear to R (Reverse).

Press the view switching button (2) on the Surround View Monitor to select Top View, Front View, Side View, or Wide View.

The Surround View Monitor's Rear-view function turns OFF when you are parking under the following conditions and the gear is set to P (Park), N (Neutral), or D (Drive):

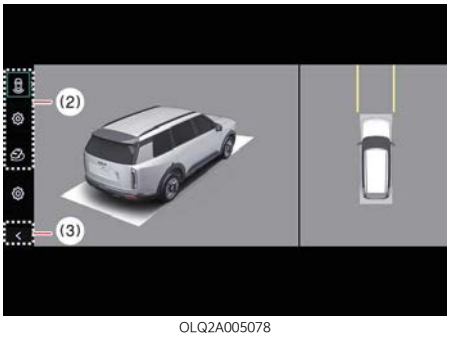
- You shift the gear from N (Neutral) or D (Drive) to P (Park).
- You press the Parking/View button (1).
- You press the back button (3) on the Surround View Monitor screen.
- You press the infotainment system power button (4).
- You drive above 6 mph (10 km/h).

The Surround View Monitor's Rear-view function turns OFF when you shift the gear from R (Reverse) to P (Park).

TIP

- The Rear View always displays when you shift the gear to R (Reverse).
- When you shift the gear to R (Reverse), the video does not turn OFF if you press the infotainment system power button (4).

3D View function



OLQ2A005078



OLQ2A105058

(2) View switching button

(3) back button

(4) infotainment system operation button

The Surround View Monitor's 3D View function displays the vehicle from various angles. To select the angle, press the 3D View icon on the Surround View Monitor. To reset the angle, press the 3D View icon again.

The Surround View Monitor's 3D View function activates under the following conditions:

- You shift the gear to P (Park), N (Neutral), or D (Drive) at speeds below 6 mph (10 km/h).
- You press the view switching button (2) to select 3D view while the gear is in R (Reverse) and Surround View Monitor is operating.

The Surround View Monitor's 3D View functions turns OFF when you are parking under the fol-

lowing conditions:
- You shift the gear from N (Neutral) or D (Drive) to P (Park).
- You press the Parking/View button (1).
- You press the back button (3) on the Surround View Monitor screen.
- You press the infotainment system power button (4).
- You drive above 6 mph (10 km/h).
- You shift the gear from R (Reverse) to P (Park).

When the vehicle is in R (Reverse), the 3D view function of the Surround View Monitor will turn off under the following conditions:
- Shifting to P (Park)

TIP
- The 3D View does not display parking guidelines.
- The Top View screen, which displays the Front View, Rear View, or 3D View, converts the original footage captured by your vehicle's 4 wide-view cameras to provide a 360-degree image of the vehicle from above.
- Top View does not display when you select Front or Rear Wide View.
- Pinch the Top View area to zoom in or out.

Surround View Monitor malfunction and limitations

Surround View Monitor malfunction

When Surround View Monitor malfunctions, the image on the screen may appear green, blue, or black.
Have your vehicle inspected by an authorized Kia dealer if the Surround View Monitor does not work properly, the screen flickers, or the camera image does not display properly.

Limitations of Surround View Monitor

When the vehicle is stopped for a long time in winter or when the vehicle is parked in an indoor parking lot, the exhaust fumes may temporarily blur the image.
- The screen may display abnormally and show an icon at the top left side under the following circumstances:
  - You open the liftgate.
  - You open the driver's door, or the front passenger opens their door.
  - You fold the outside rearview mirror.

WARNING
- Always look for objects or obstacles around your vehicle before moving. What you see on the screen may differ from the vehicle's actual location.
- Distance shown on the Surround View Monitor screen may differ from actual distance due to image calibration by the Wide Rear View camera. If your vehicle is tilted due to loaded cargo, Rear Parking Guidelines may be incorrect. When you are parking or driving, be sure to directly check your vehicle's surroundings for safety.

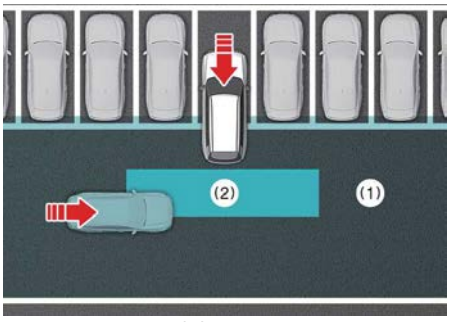
- The Surround View Monitor is designed to be used on a flat surface, and the image on the screen may not look correct when used on roads with varying heights, such as curbs and speed bumps.
- Always keep the camera lens clean to maintain optimal camera performance and Surround View Monitor operation. Do not clean the camera lens with chemical solvents that may damage it, including strong detergents that contain high alkaline or volatile organic solvents such as gasoline, acetone, and so on.
- Driving with the liftgate open is abnormal. For your safety, be aware and drive safely.

TIP

The Surround View Monitor displays images of your vehicle's surroundings using cameras mounted on the vehicle. The images shown on the screen may look unnatural depending on the vehicle and its surrounding conditions. Daily driving can calibrate and improve the Surround View Monitor's image.

Rear Cross-traffic Collision-avoidance Assist (RCCA)

Rear Cross-traffic Collision-avoidance Assist is designed to detect vehicles approaching the rear of your vehicle from the left or right while reversing and uses a warning message and sound to warn you of a possible collision. Rear Cross-traffic Collision-avoidance Assist may also assist with braking your vehicle to help you avoid a collision.



OLQ2A105059

(1) Rear Cross-Traffic Collision Warning operating range
(2) Rear Cross-Traffic Collision-avoidance Assist operating range

TIP

The warning time may vary depending on the speed of approaching vehicle.

Detection sensor

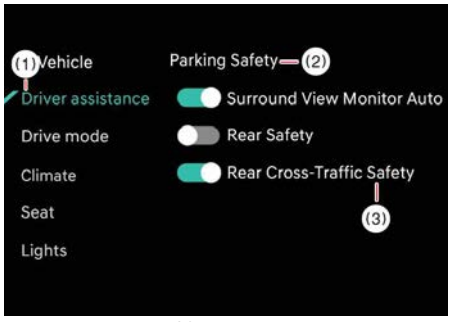
Please refer to "Detecting sensor(s)" on page 461 for the applicable sensors and their locations.

TIP

For more information about the rear corner radar, refer to "Blind-spot Collision-avoidance Assist (BCA)" on page 508.

Rear Cross-Traffic Collision-avoidance Assist settings

Rear Cross-Traffic Safety



OCL4M055135N

(1) **Driver Assistance**
(2) **Parking Safety**
(3) **Rear Cross-Traffic Safety**

While the vehicle is ON, tap **Setup** > **Vehicle** > **Driver Assistance** > **Parking Safety** > **Rear Cross-Traffic Safety** on the infotainment system screen to change Rear Cross-Traffic Collision-Avoidance Assist settings.

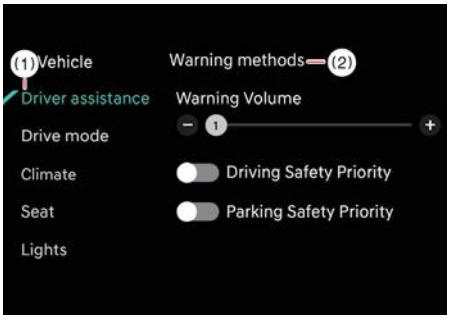
WARNING

When you restart the vehicle, Rear Cross-Traffic Collision-Avoidance Assist always turns ON. If you deselect **Rear Cross-Traffic Safety** after restarting the vehicle, you should always be aware of the surroundings and drive safely.

WARNING

- Do not use the system when towing a trailer or another vehicle, or when a carrier or other equipment that affects sensor operation or vehicle balance is installed, as it may not operate properly.
- When connecting a trailer or carrier, set the trailer or carrier menu (if equipped). If the driver manually sets the menu or the trailer or carrier connection is automatically recognized through genuine parts, the functions of the driver assistance system may be limited. Please refer to "Driver assistance system limitations" on page 653 and always drive with caution.

Warning Methods



OLQ2A005119

(1) **Driver Assistance**
(2) **Warning Methods**

To change the Warning Methods settings while the vehicle is ON, tap **Setup > Vehicle > Driver Assistance > Warning Methods** on the infotainment system screen. You can change the following settings:

- **Warning Volume**: Adjusts the volume of the warning sound.
- **Haptic Warning**: Turns ON the steering wheel vibration warning.

TIP

- Your **Warning Methods** settings may apply to the **Warning Methods** of other driver assistance systems.
- **Warning Methods** maintain their last settings when you turn OFF and restart the vehicle.
- The **Warning Methods** setting menu may not be available on all vehicles.

Rear Cross-Traffic Collision-avoidance Assist operation

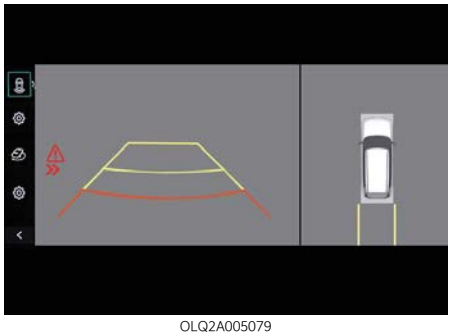
Rear Cross-Traffic Collision-avoidance Assist will warn you and control your vehicle in the following ways depending on the collision risk level:

- Collision Warning
- Emergency Braking
- Stopping vehicle and ending brake control

Collision Warning



OLQ2A105022



OLQ2A005079



OLQ2A005037

1. **Collision Warning**

Collision warning alerts you with a warning light on the outside rearview mirror, a warning message, an audible warning, and steering wheel vibration.
Collision warning also appears on the infotainment system screen.
Collision warning operates when all of the following conditions are satisfied:

- You shift the gear to R (Reverse) while your speed is below 5 mph (8 km/h).
- The approaching vehicle is approximately 82 ft (25 m) from the left or right side of your vehicle.
- The speed of the vehicle approaching from the left or right is above 3 mph (5 km/h).

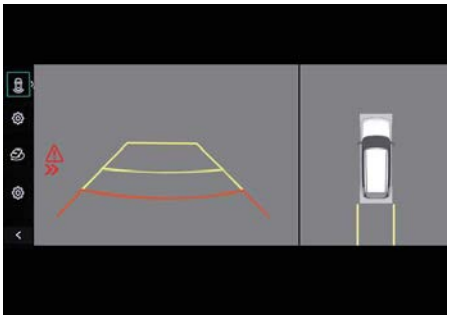
TIP

- If the operating conditions are satisfied, there will be a warning whenever a vehicle approaches from the left or right side even if your vehicle speed is 0 mph (0 km/h).
- The images or colors may display differently depending on the specifications of the instrument cluster or theme.

Emergency Braking



OLQ2A105022



OLQ2A005079



OLQ2A005037

(1) **Emergency Braking**

Collision Warning can alert you with a warning light on the outside rearview mirror, a warning message, an audible warning, and steering wheel vibration.
Collision Warning also appears on the infotainment system screen.
Emergency Braking assists you to help prevent a collision with an approaching vehicle from the left or right.
Emergency Braking operates when all of the following conditions are satisfied:

- You shift the gear to R (Reverse) while your speed is below 5 mph (8 km/h).
- The approaching vehicle is approximately 5 ft (1.5 m) from the left or right side of your vehicle.
- The speed of the vehicle approaching from the left or right is above 3 mph (5 km/h).

TIP

Brake control ends under the following conditions:

- 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 slows down.
- You engage the brake pedal with sufficient power.

Stopping the vehicle and ending brake control



OLQ2AH005041

(1) **Drive carefully**

When Emergency Braking stops your vehicle, a warning message appears on the instrument cluster.

You should manually brake immediately and check your surroundings.

- Brake control ends approximately 2 seconds after emergency braking stops your vehicle.
- During emergency braking, Rear Cross-Traffic Collision-Avoidance Assist automatically cancels braking control if you excessively engage the brake pedal.

WARNING

- For your safety, change the settings only after parking the vehicle at a safe location.
- Rear Cross-Traffic Collision-Avoidance Assist may not display a warning message or generate an audible warning if any other function's warning message is displayed or audible warning is generated at the same time.
- You may not hear the warning sound of Rear Cross-Traffic Collision-Avoidance Assist in noisy surroundings. Adjust the interior vehicle volume appropriately and always stay attentive.
- Rear Cross-Traffic Collision-Avoidance Assist may not operate if you manually brake to avoid a collision.
- During Rear Cross-Traffic Collision-Avoidance Assist operation, your vehicle may stop suddenly, injuring passengers and shifting loose objects. Always have seat belts on and keep loose objects secured.
- Your vehicle's basic braking performance operates properly even if there is a problem with Rear Cross-Traffic Collision-Avoidance Assist.

WARNING

- Rear Cross-Traffic Collision-Avoidance Assist automatically cancels braking control if you excessively engage the accelerator pedal.
- Rear Cross-Traffic Collision-Avoidance Assist does not operate in all situations and cannot avoid all collisions.
- Rear Cross-Traffic Collision-Avoidance Assist may warn you late or may not warn you depending on the road and driving conditions.

- It is your responsibility to control your vehicle. Do not solely depend on Rear Cross-Traffic Collision-Avoidance Assist. Maintain a safe braking distance and, if necessary, engage the brake pedal to reduce speed or stop your vehicle.
- Never rely on Rear Cross-Traffic Collision Avoidance to avoid a collision with people, animals, or objects. This may cause serious injury or death.

TIP

The brake control may not operate properly depending on the status of Electronic Stability Control (ESC).

There will only be a warning when:

- The ESC warning light is illuminated.
- ESC is engaged in a different function.

WARNING

- If Rear Cross-Traffic Collision-Avoidance Assist assists with braking, you must immediately engage the brake pedal and check your surroundings.
- After you shift the gear to R (Reverse), braking control operates once each for vehicles approaching from the left or right.

Rear Cross-Traffic Collision-avoidance Assist malfunction and limitations

Rear Cross-Traffic Collision-Avoidance Assist malfunction



OCL4M055096N

(1) **Check Driver Assistance system**

If Rear Cross-Traffic Collision-Avoidance Assist is not working properly, the Master warning light (⚠) appears on the instrument cluster, along with a warning message that lasts for several seconds. You can check the warning-related functions in the Service Messages section of the Utility Information View on the cluster display.

Have the function inspected by an authorized Kia dealer.



OCL4M055102N

(1) **Check side view mirror warning light**

When the outside sideview mirror warning light is not working properly, the Master warning light (⚠) appears on the instrument cluster, along with a warning message that lasts for several seconds.

Have the function inspected by an authorized Kia dealer.

Rear Cross-Traffic Collision-Avoidance Assist disabled



OCL4M055098N

(1) **Driver Assistance system limited. Radar blocked.**

When foreign material (such as rain or snow) covers the rear bumper near the rear-side radar or sensor, or when you install a trailer or carrier, it can reduce the detection performance and temporarily limit or disable Rear Cross-Traffic Collision-Avoidance Assist.

If this occurs, a warning message appears on the instrument cluster.

Rear Cross-Traffic Collision-Avoidance Assist should operate properly when you remove foreign materials (such as snow or rain) from the sensor or obstructions (such as a trailer or carrier) from the rear bumper.

If Rear Cross-Traffic Collision-Avoidance Assist still does not operate properly after you remove foreign materials (such as snow or rain) from the sensor or obstructions (such as a trailer or carrier) from the rear bumper, have the vehicle inspected by an authorized Kia dealer.

⚠ WARNING

- Even though a warning message does not appear on the instrument cluster, Rear Cross-Traffic Collision-Avoidance Assist may not operate properly.

- Rear Cross-Traffic Collision-Avoidance Assist may not operate properly immediately after starting the vehicle if the detection sensors are contaminated or if there are no objects around the vehicle (e.g., in an open, unobstructed area).

WARNING

Turn OFF Rear Cross-Traffic Collision-Avoidance Assist to install or remove a trailer, carrier, or other attachment. Turn ON Rear Cross-Traffic Collision-Avoidance Assist when you are finished.

Limitations of Rear Cross-Traffic Collision-Avoidance Assist

Rear Cross-Traffic Collision-Avoidance Assist may operate abnormally or unexpectedly under the following circumstances:

- You are departing from areas with overgrown foliage.
- You are departing from areas where roads are wet.
- The speed of an approaching vehicle is fast or slow.
- The rear-side radar is obstructed by the vehicle itself, pillars, walls, or other objects.
- Exiting simultaneously with a neighboring vehicle, causing the rear-side radar to be obstructed.

Braking control may not work, and your attention is required in the following circumstances:

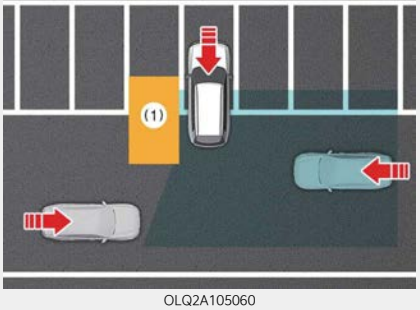
- The vehicle vibrates severely while you drive over a bumpy, uneven road or pothole.
- You drive on a slippery surface such as snow, rain, ice, and so on.
- The tire pressure is low or a tire is damaged.
- Remote Smart Parking Assist is operating (if equipped).
- The brakes are modified

TIP

For more information about the rear corner radar, refer to "Blind-spot Collision-avoidance Assist (BCA)" on page 508.

WARNING

- You are driving near a vehicle or structure



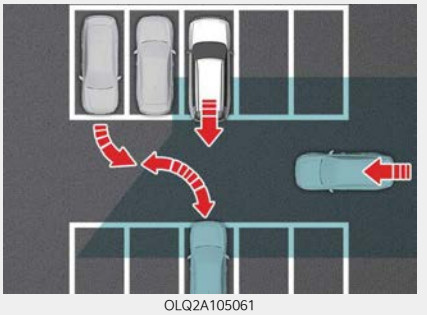
(1) Structure

OLQ2A105060

Rear Cross-Traffic Collision-Avoidance Assist may be limited when you drive near a vehicle or structure, and it may not detect a vehicle approaching from the left or right. The function may not warn you or control the brakes when necessary.

Always check your surroundings while backing up.

- The vehicle is in a complex parking environment



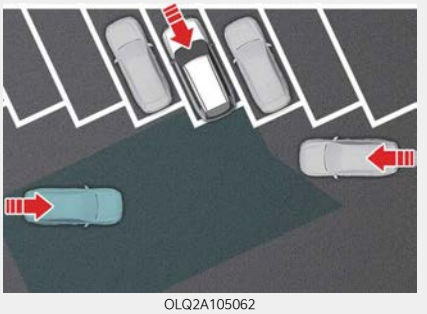
OLQ2A105061

Rear Cross-Traffic Collision-Avoidance Assist may detect vehicles that are parking or pulling out near your vehicle (for example, a vehicle leaving from beside your vehicle, a vehicle parking or pulling out behind your vehicle, a vehicle that is approaching your vehicle making a turn, and so on).

The function may unnecessarily warn you and control the brake.

Always check your surroundings while backing up.

- The vehicle is parked diagonally

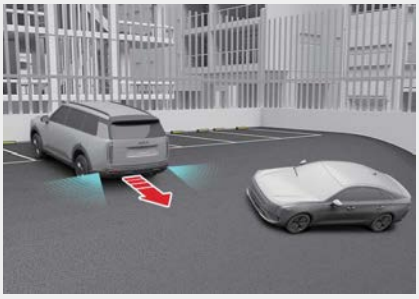


OLQ2A105062

Rear Cross-Traffic Collision-Avoidance Assist may be limited when you back up diagonally and may not detect a vehicle approaching from the left or right. The function may not warn you or control the brakes when necessary.

Always check your surroundings while backing up.

- The vehicle is on or near a slope

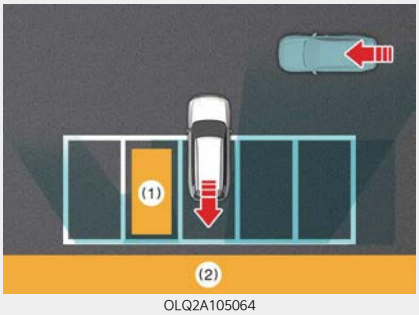


OLQ2A105063

Rear Cross-Traffic Collision-Avoidance Assist may be limited when your vehicle is on or near an uphill or downhill slope, and it may not detect a vehicle approaching from the left or right. The function may not warn you or control the brakes when necessary.

Always check your surroundings while backing up.

- You are pulling into a parking space where there is a structure



(1) Structure

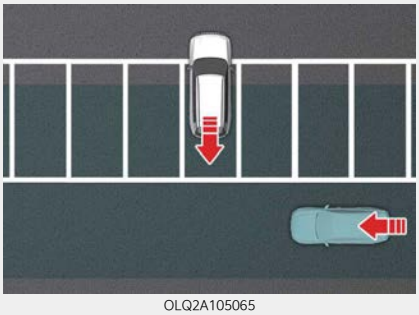
(2) Wall

OLQ2A105064

Rear Cross-Traffic Collision-Avoidance Assist may detect vehicles passing ahead of you when you park in reverse into a parking space with a wall or structure in the rear or side area. The function may unnecessarily warn you and control the brake.

Always check your surroundings while backing up.

- The vehicle is parked backward



OLQ2A105065

Rear Cross-Traffic Collision-Avoidance Assist may detect vehicles passing behind you when you park in a parking space in reverse. The function may unnecessarily warn you and control the brake.

Always check your surroundings while backing up.

WARNING

- When you are towing a trailer or another vehicle, turn OFF Rear Cross-Traffic Collision-Avoidance Assist for safety reasons.
- Rear Cross-Traffic Collision-Avoidance Assist may not operate properly if there is strong electromagnetic interference.
- Rear Cross-Traffic Collision-Avoidance Assist may not activate for 3 seconds after you start your vehicle or initialize the rear corner radars.
- Even if you restart the vehicle with the sensors blocked or malfunctioning, Rear Cross-Traffic Collision-Avoidance Assist may not operate properly, as the function maintains its last setting.

This device complies with Part 15 of the FCC rules.

Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. this device must accept any interference received, including interference that may cause undesired operation.

TIP

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Parking Distance Warning (PDW) (if equipped)

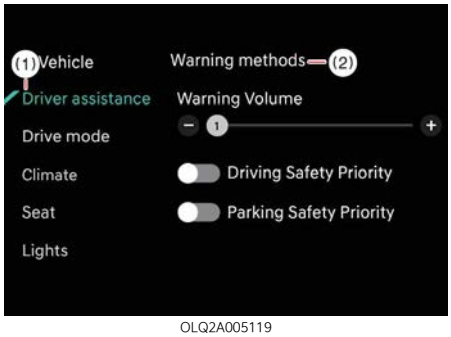
Forward/Side/Reverse Parking Distance Warning uses the front, side (if equipped), and rear ultrasonic sensors to detect and warn you if a person, animal, or object is within a certain distance when your vehicle is stopped or driving at low speed.

Detection sensor

Please refer to "Detecting sensor(s)" on page 461 for the applicable sensors and their locations.

Parking Distance Warning settings

Warning Methods



OLQ2A005119

(1) **Driver Assistance**
(2) **Warning Methods**

To change the Warning Methods settings while the vehicle is ON, tap **Setup > Vehicle > Driver Assistance > Warning Methods** on the infotainment system screen. You can change the following settings:

- **Warning Volume**: Adjusts the volume of the warning sound.

TIP

- Your **Warning Methods** settings may apply to the **Warning Methods** of other driver assistance systems.
- **Warning Methods** maintain their last settings when you turn OFF and restart the vehicle.
- The **Warning Methods** setting menu may not be available on all vehicles.

Parking Distance Warning Auto On

You can set the Parking Distance Warning to automatically turn ON when driving at low speeds. To use the Parking Distance Warning Auto On function, tap **Setup > Vehicle > Driver Assistance > Parking Safety > Parking Distance Warning Auto On** on the infotainment system screen.

WARNING

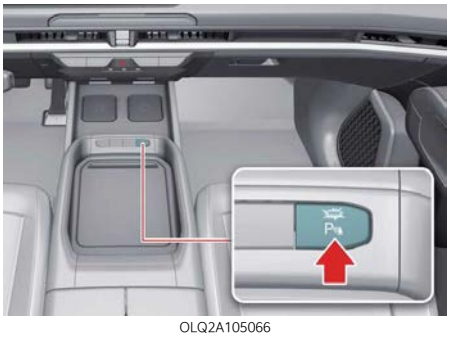
- Do not use the system when towing a trailer or another vehicle, or when a carrier or other equipment that affects sensor operation or vehicle balance is installed, as it may not function properly.
- When connecting a trailer or carrier, set the trailer or carrier menu (if equipped). If the driver manually sets the menu or the trailer or carrier connection is automatically recognized through genuine parts, the functions of the driver assistance system may be limited. Please refer to "Driver assistance system limitations" on page 653 and always drive with caution.

TIP

When **Parking Distance Warning Auto On** is selected, the Parking Safety button indicator (P) stays ON.

Parking Distance Warning operation

Parking Safety button



OLQ2A105066

Press the Parking Safety (P) button to turn ON Parking Distance Warning. Press the button again to turn OFF the function.

When you shift the gear to R (Reverse), Parking Distance Warning automatically turns ON (the Parking Safety button indicator is ON).

Forward Parking Distance Warning

Forward Parking Distance Warning operates when any of the following conditions is satisfied:

- When you shift the gear from R (Reverse) to D (Drive) with Reverse Parking Distance Warning ON.
- The gear is in D (Drive) and the Parking safety (P) button indicator light is illuminated.
- Forward Parking Distance Warning warns you when the vehicle is in D (Drive) (if you have selected **Setup** > **Vehicle** > **Driver Assistance** > **Parking Safety** > **Parking Distance Warning Auto On** on the infotainment system screen).

TIP

- Forward Parking Distance Warning operates when the vehicle's speed is below 6 mph (10 km/h).
- When in R (Reverse), Forward Parking Distance Warning does not issue any warning for objects inside the front of the vehicle. A warning sound will be activated when an object within 12 in (30 cm) of the front outer side of the vehicle is detected while turning.
- If you do not select Parking Distance Warning Auto On, the Forward Parking Distance Warning function (and its indicator light on the button) turns OFF when your speed is above 18 mph (30 km/h). Even if you drive below 6 mph (10 km/h) again, the function does not turn ON automatically.
- A warning sound will be activated when an object is detected within the vehicle's driving path.
- The warning sound may be deactivated when the vehicle is stationary.

Warning indicator and warning sound

Distance from object	Warning indicator		Warning sound
	Instrument cluster	Infotainment system screen	
24-48 in (60-120 cm)			Buzzer beeps intermittently
12-24 in (30-60 cm)			Buzzer beeps more frequently
within 12 in (30 cm)			Buzzer beeps continuously

- The corresponding indicator appears and an audible warning sounds whenever each ultrasonic sensor detects a person, animal, or object in its sensing range.
- When more than 2 objects are detected at the same time, the audible warning applies to the closest one.
- The shape of the indicator in the illustration may differ from the indicator displayed by your vehicle.

Side Parking Distance Warning (if equipped)

Side Parking Distance Warning operates when any of the following conditions is satisfied:

- When you shift the gear to R (Reverse).
- The gear is in D (Drive) and the Parking Safety (P) button indicator light is illuminated.
- Your speed is below 6 mph (10 km/h).

TIP

- Side Parking Distance Warning only works when your speed is below 6 mph (10 km/h).
- Side Parking Distance Warning only works when the Forward/Reverse Parking Distance Warning function is ON.

- A warning sound will be activated when an object is detected within the vehicle's driving path.
- The warning sound may be deactivated when the vehicle is stationary.

Warning indicator and warning sound

Distance from object	Warning indicator		Warning sound
	Instrument cluster	Infotainment system screen	
24-48 in (60-120 cm)			-
12-24 in (30-60 cm)			-
within 12 in (30 cm)			Buzzer beeps continuously

- When the side ultrasonic sensor detects a person or object, the instrument cluster or infotainment system screen displays indicator lights for each distance.
- A warning sounds when the sensor detects an object within 12 in (30 cm) of the side in the vehicle's exit path.
- If the sensor detects an object to the side outside the vehicle's exit path, it only displays the indicator light.
- In D (Drive), when the distance from the object is 12 in (30 cm) or more, the instrument cluster does not display the side-way warning.
- The shape of the indicator in the illustration may differ from the indicator displayed by your vehicle.

Reverse Parking Distance Warning

Reverse Parking Distance Warning operates when you shift the gear to R (Reverse).

TIP

- A warning sound will be activated when an object is detected within the vehicle's driving path.
- The warning sound may be deactivated when the vehicle is stationary.

Warning indicator and warning sound

Distance from object	Warning indicator		Warning sound
	Instrument cluster	Infotainment system screen	
24-48 in (60-120 cm)			Buzzer beeps intermittently

Distance from object	Warning indicator		Warning sound
	Instrument cluster	Infotainment system screen	
12-24 in (30-60 cm)			Buzzer beeps more frequently
within 12 in (30 cm)			Buzzer beeps continuously

- The corresponding indicator appears and an audible warning sounds whenever each ultrasonic sensor detects a person, animal, or object in its sensing range.
- When more than 2 objects are detected at the same time, the audible warning applies to the closest one.
- The shape of the indicator in the illustration may differ from the indicator displayed by your vehicle.

Parking Distance Warning malfunction and precautions

Parking Distance Warning malfunction

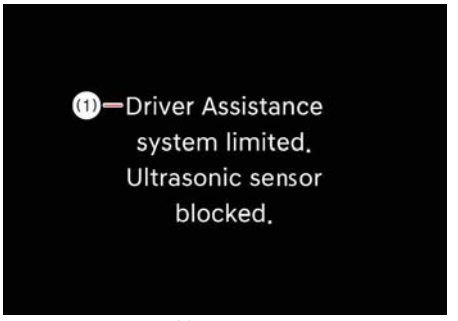


OCL4M055096N

(1) **Check Driver Assistance system**

If there is a problem with the Parking Distance Warning or related functions and parts, the instrument cluster displays a warning message.
You can check the contents of the warning in the service message of the utility information view of the instrument cluster. If the function still does not work properly, have the vehicle inspected by an authorized Kia dealer.

Parking Distance Warning disabled



OCL4M055111N

(1) **Driver Assistance system limited. Ultrasonic sensor blocked.**

The ultrasonic sensors detect objects around your vehicle. Parking Distance Warning may be temporarily limited or may not operate if snow, rain, foreign substances, and so on cover the sensor. You can check the detection sensor blind warning target (ultrasonic sensor) in the service message of the utility information view in the instrument cluster. Parking Distance Warning works normally if you remove the contamination from the recognition sensor. Always keep it clean. If the function still does not work properly even after you remove the contamination, have the vehicle inspected by an authorized Kia dealer.

TIP

The Master warning light (⚠) displays in the target direction if a malfunction or ultrasonic sensor is blocked while the Parking Distance Warning is operating. You can check the Forward/Side/Reverse Parking Distance status in the service message of the utility information view of the instrument cluster display window.



OLQ2A005034

Limitations of Parking Distance Warning

Parking Distance Warning may operate abnormally or unexpectedly under the following circumstances:

- Ice is on the sensor

  The sensor is covered with foreign material, such as snow, ice, or water. (Parking Distance Warning operates properly when you remove such substances.)

- The weather is extremely hot or cold.
- The sensor or sensor assembly is damaged.
- You press the surface of the sensor hard or hit it with a hard object.
- You scratch the surface of the sensor with a sharp object.
- You spray the sensors or their surrounding areas directly with a high pressure washer.
- Objects emitting ultrasonic waves (such as a vehicle's horn, motorcycle engine, or large vehicle air brakes) are nearby.
- A wireless device with a transmitting function is operating near the ultrasonic sensors
- During strong winds
- If sensor damage or misalignment occurs due to vehicle accidents, such as bumper damage

Parking Distance Warning may malfunction when:

- Heavy rain or water spray is present.
- Water flows across the surface of the sensor.
- Affected by another vehicle's sensors

  The sensor is covered with snow or ice.
- You are driving on an uneven road, gravel road, or road with dense overgrowth.
- Objects that generate ultrasonic waves are near the sensor.
- The license plate is installed in a different spot from the original location.
- A license plate that does not meet official specifications is installed
- The vehicle bumper height or ultrasonic sensor installation has been modified.
- You have attached equipment or accessories near the ultrasonic sensors.
- A cargo carrier (trailer or carrier) is installed at the rear of the vehicle
- The vehicle's ride height changes significantly due to abnormal tire pressure, overloading, etc.
- A trailer hitch is installed on the vehicle

The following objects may not be detected:

- Slim objects such as ropes, chains, or small poles.
- Narrow objects, such as the corners of a square column.
- Objects that tend to absorb ultrasonic waves, such as clothes, spongy material, or snow.
- Objects shorter than 40 in (100 cm) in length and narrower than 6 in (14 cm) in diameter.
- Pedestrians, animals, or objects that are very close to the ultrasonic sensors.
- Objects in the side space between the front and rear side ultrasonic sensors, or approaching the side space.

⚠ WARNING

- Parking Distance Warning is a supplemental function. Several factors can affect the operation of Parking Distance Warning, including environmental conditions. It is your responsibility to always check your surroundings before and while parking.
- Your new vehicle warranty does not cover any accidents or damage to your vehicle due to any malfunction of Parking Distance Warning.
- Pay close attention when driving near objects, pedestrians, and especially children. The ultrasonic sensors may not detect some objects due to their distance, size, or material, all of which can limit the sensor's effectiveness.
- Parking Distance Warning does not warn you about objects in the order it detects them. The warning order varies depending on the speed of your vehicle or the shape of a person, animal, or object.

- If Parking Distance Warning does not operate properly, have the vehicle inspected by an authorized Kia dealer.
- Driving with the liftgate open is abnormal and may be unsafe. Exercise caution.
- Some objects may not be detected by the ultrasonic sensors due to their size, shape, material, or distance from the vehicle. This can limit sensor performance.
- Always keep the detection sensors clean.
- Clean the sensor surfaces with water. Do not use acidic or alkaline detergents.
- Do not spray high-pressure water directly onto the sensors or their surrounding areas. Impact from high-pressure water may cause sensor malfunction.
- Do not cover the sensors with external objects (stickers, bumper guards, etc.) or paint the bumper. This may degrade the performance of Parking Collision-Avoidance Assist.
- Do not disassemble or apply impact to the sensor components.
- Avoid impacts to the sensors. If a sensor is displaced by impact, Parking Collision-Avoidance Assist may not function properly. If a sensor is damaged due to impact, have it inspected at an authorized Kia dealer.
- If the bumper is damaged, replaced, or repaired, the Parking Distance Warning may not function properly.
- Strong electromagnetic waves may disable Parking Collision-Avoidance Assist.
- Excessive audio volume may prevent you from hearing warning sounds. Adjust the vehicle's interior volume appropriately and always pay attention.

Reverse Parking Collision-avoidance Assist (PCA) (if equipped)

Reverse Parking Collision-avoidance Assist can detect pedestrians or objects behind your vehicle, and may warn you or assist you with braking to help you avoid a collision while your vehicle is reversing.

Detection sensor

Please refer to "Detecting sensor(s)" on page 461 for the applicable sensors and their locations.

Reverse Parking Collision-avoidance Assist settings

Parking Safety



OCL4M055136N

(1) **Driver Assistance**
(2) **Parking Safety**
(3) **Rear Safety**

While the vehicle is ON, tap **Setup > Vehicle > Driver Assistance > Parking Safety** on the infotainment system screen.

Backward Safety: This function warns you or assists you with braking when there is a high risk of collision with pedestrians or objects behind your vehicle.

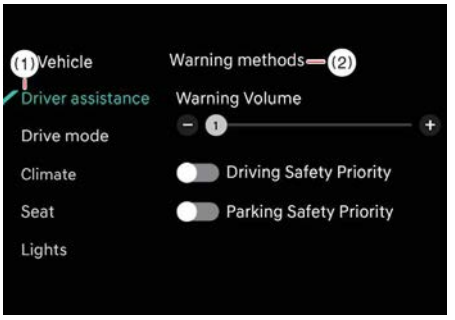
WARNING

- Do not use the system when towing a trailer, another vehicle, or when a carrier or other equipment that affects sensor operation or vehicle balance is installed. The system may not operate normally.
- When connecting a trailer or carrier, set the trailer or carrier menu (if equipped). If the driver manually sets the menu or the trailer or carrier connection is automatically recognized through genuine parts, the functions of the driver assistance system may be limited. Please refer to "Driver assistance system limitations" on page 653 and always drive with caution.

TIP

When you restart your vehicle, **Backward Safety** is selected and Parking Collision-Avoidance Assist settings are retained.

Warning Methods



OLQ2A005119

(1) **Driver Assistance**
(2) **Warning Methods**

To change the Warning Methods settings while the vehicle is ON, tap **Setup > Vehicle > Driver Assistance > Warning Methods** on the infotainment system screen. You can change the following settings:

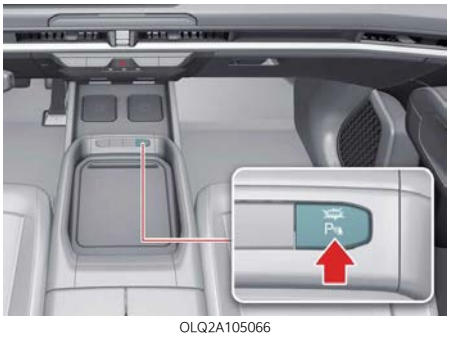
- **Warning Volume**: Adjusts the volume of the warning sound.
- **Haptic Warning**: Turns ON the steering wheel vibration warning.

TIP

- Your **Warning Methods** settings may apply to the **Warning Methods** of other driver assistance systems.
- **Warning Methods** maintain their last settings when you turn OFF and restart the vehicle.
- The **Warning Methods** setting menu may not be available on all vehicles.

Reverse Parking Collision-avoidance Assist operation

Turning ON or OFF



OLQ2A105066

Press and hold the Parking Safety button (P) for more than 2 seconds to turn the Parking Collision-Avoidance Assist ON or OFF.

Operating conditions

When Reverse Parking Collision-Avoidance Assist detects a risk of collision with pedestrians or objects behind the vehicle, an audible warning sounds, the steering wheel vibrates, and a warning message appears on the instrument cluster. If the Surround View Monitor is active, the infotainment system screen also displays a warning message.

If a collision risk is urgent, Reverse Parking Collision-Avoidance Assist controls the vehicle's braking.

Tap **Backward Safety** on the **Parking Safety** menu on the infotainment system screen. Parking Collision-Avoidance Assist is enabled under the following conditions:

- The liftgate and doors are closed.
- The Electronic Parking Brake (EPB) is released.
- The gear is shifted to R (Reverse).
- Your speed is below 6 mph (10 km/h) (detecting pedestrians).
- Your speed is below 1 mph (4 km/h) (detecting objects).
- Parking Collision-Avoidance Assist components (such as the wide-rear view camera and the rear ultrasonic sensors) are in normal condition.



OLQ2A005039

When Parking Collision-Avoidance Assist activates, a line appears at the bottom of the vehicle's image in the instrument cluster.

TIP

Parking Collision-Avoidance Assist operates only once after you shift the gear to R (Reverse). To reactivate Parking Collision-Avoidance Assist, shift from another gear to R (Reverse).

Non-operating conditions

If Parking Collision-Avoidance Assist detects the risk of a collision between your vehicle and a pedestrian or object, Parking Collision-Avoidance Assist warns you with an audible warning and warning message on the instrument cluster. If the infotainment system screen is ON, a warning appears on the screen.

If a collision is imminent, Parking Collision-Avoidance Assist can assist you with braking.

Braking assist releases after 5 minutes. Immediately engage the brake pedal and check your surroundings.

Braking assist also releases under the following conditions:

- You shift the gear to P (Park) or D (Drive).
- You manually brake with sufficient power.
- You release the warning by shifting to P (Park), N (Neutral), or D (Drive).

TIP

When Parking Collision-Avoidance Assist activates while you are reversing, braking control is released after 5 minutes, and the Electronic Parking Brake (EPB) is engaged.

Reverse Parking Collision-avoidance Assist malfunction and limitations

Reverse Parking Collision-Avoidance Assist malfunction

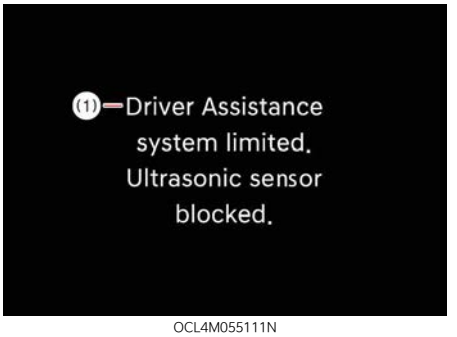


OCL4M055096N

(1) **Check Driver Assistance system**

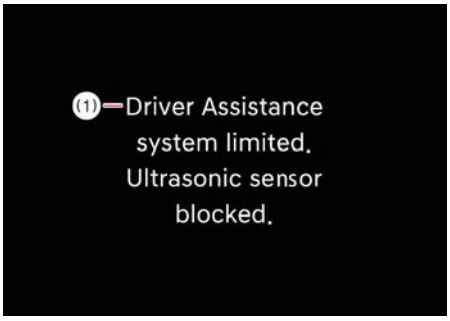
If there is a problem with Parking Collision-Avoidance Assist or related functions and parts, a warning message displays on the instrument cluster. If the function still does not work properly, have the vehicle inspected by an authorized Kia dealer.

Reverse Parking Collision-Avoidance Assist disabled



OCL4M055111N

(1) **Driver Assistance system limited. Camera obscured.**



OCL4M055111N

(1) **Driver Assistance system limited. Ultrasonic sensor blocked.**

The wide-rear view camera and rear ultrasonic sensors detect objects around your vehicle. Parking Collision-Avoidance Assist may be temporarily limited or may not operate if snow, rain, foreign substances, and so on obscure the sensor. You can check the detection sensor blind warning target (wide-rear view camera and rear ultrasonic sensor) in the service message of the utility information view in the instrument cluster. Parking Collision-Avoidance Assist works normally if you remove the contamination from the recognition sensor. Always keep it clean. If the function still does not work properly even after you remove the contamination, have the vehicle inspected by an authorized Kia dealer.

TIP

You can check the Reverse Parking Collision-Avoidance Assist status in the service message of the utility information view of the instrument cluster.

Limitations of Reverse Parking Collision-Avoidance Assist

Parking Collision-Avoidance Assist may not assist you with braking, even if there are pedestrians or objects behind the vehicle, under the following circumstances:

- There is a problem with the vehicle:
  - You install any non-factory equipment or accessory.
  - You modify the braking system components, such as brake discs and calipers.
  - The wheels are misaligned, or the suspension components are modified.
  - You have attached accessories to the steering wheel or modified the steering components.
  - Your vehicle is unstable due to an accident or other causes.
  - You have modified the bumper height or ultrasonic sensor installation.
  - The overall height of the vehicle is severely tilted due to abnormal tire pressure or excessive loading in the cargo area.
  - The wide view cameras or ultrasonic sensors are damaged.
  - The wide view cameras or ultrasonic sensors are covered with foreign material such as snow or dirt.
  - You have installed a snow chain, spare tire, or wheel of a different size.
  - A trailer hitch is installed on the vehicle
  - The license plate is mounted in a location other than the standard position
  - A non-standard license plate is installed
  - Decorations are attached around the ultrasonic sensors

- ◦ The ultrasonic sensors or their surrounding parts are removed or tampered with
- ◦ Excessive force is applied to the surface of the ultrasonic sensors or they are struck with a hard object
- ◦ The surface of the ultrasonic sensors is scratched or damaged by a sharp object

• There is a problem with the surroundings:
- ◦ There is a pattern on the road.
- ◦ There is a shadow or reflected light on the ground
- ◦ Pedestrians or objects are near the vehicle's path.
- ◦ You are driving through a narrow track or a parking space.
- ◦ You are driving on an uneven road such as an unpaved road, gravel road, speed bump, or inclined road.
- ◦ You have installed a trailer or carrier near the rear corner radar.
- ◦ Wide view cameras are obscured by a light source or by inclement weather, such as heavy rain, fog, snow, and so on.
- ◦ The surroundings are extremely bright or dark.
- ◦ Outside temperature is extremely high or low.
- ◦ The wind is either strong (above 12 mph (20 km/h)) or blowing perpendicular to the rear bumper.
- ◦ Objects that generate excessive noise (such as vehicle horns, loud motorcycles, or truck air brakes) are near your vehicle.
- ◦ Objects that generate ultrasonic waves are near your vehicle.
- ◦ A wireless device with a transmission function is operating near the rear ultrasonic sensor.
- ◦ Your vehicle is affected by another vehicle's parking distance warning function.
- ◦ The road is slippery or inclined.
- ◦ High-pressure water is sprayed directly onto the surface of the ultrasonic sensors

• There is a situation with pedestrians or objects:
- ◦ The pedestrian is difficult to detect.
- ◦ There is ground height difference between your vehicle and the pedestrian.
- ◦ The image of the pedestrian in the wide-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 too short or tall to detect.
- ◦ The pedestrian is wearing clothing that easily blends into the background, making them difficult to detect.
- ◦ The pedestrian is wearing clothing that does not reflect ultrasonic waves.
- ◦ The object's size, thickness, height, or shape does not reflect ultrasonic waves (for example, a pole, bush, curb, cart, the edge of a wall, and so on).
- ◦ The pedestrian or object is moving.
- ◦ The pedestrian or object is very close to the rear of your vehicle.
- ◦ There is a large object (such as a wall) behind the pedestrian or the object.
- ◦ The object is not located near the front or rear center of your vehicle.
- ◦ The object is not parallel with the rear bumper.
- ◦ The face of the object is not parallel with the rear bumper.

• There is a situation with the driving conditions:
- ◦ You drive the vehicle immediately after shifting the gear to R (Reverse) or D (Drive).

- ◦ You accelerate or drive in a circle.
- ◦ You drive immediately after starting the vehicle.

⚠ WARNING

- Always use extreme caution while driving. You are responsible for controlling the brake for safe driving.
- Always look around your vehicle to make sure there are no pedestrians or objects before moving your vehicle.
- The performance of Parking Collision-Avoidance Assist may vary under certain conditions. If the vehicle's speed is above 2 mph (4 km/h), Parking Collision-Avoidance Assist will operate only when pedestrians are detected. Always look around and pay attention when driving your vehicle.
- Some objects may not be detected by the rear ultrasonic sensors due to the objects' distance from the vehicle, size, or material, all of which can limit the effectiveness of the sensors.
- Parking Collision-Avoidance Assist may not operate properly or may operate unnecessarily depending on the road conditions and surroundings.
- Do not solely rely on Parking Collision-Avoidance Assist. Doing so may lead to vehicle damage or injuries.
- Always keep the Wide Rear View camera and ultrasonic sensors clean.
- Do not use any cleaner containing acid or alkaline detergents when cleaning the camera lens. Use only a mild soap or neutral detergent and rinse thoroughly with water.
- Do not spray the Wide Rear View camera, the rear ultrasonic sensors, or their surrounding areas directly with a high pressure washer. This may cause the Wide Rear View camera or ultrasonic sensors to malfunction.
- Do not apply objects (such as a bumper sticker or bumper guard) near the Wide Rear View camera or ultrasonic sensors, or apply paint to the bumper. Doing so may adversely affect the performance of Parking Collision-Avoidance Assist.
- Never disassemble or damage the Wide Rear View camera or the components of the ultrasonic sensor.
- Do not apply unnecessary force to the Wide Rear View camera or ultrasonic sensors. Parking Collision-Avoidance Assist may not operate properly if you forcibly move the Wide Rear View camera or ultrasonic sensors out of proper alignment. If Parking Collision-Avoidance Assist does not operate properly, visit an authorized Kia dealer.
- You may hear noise when braking suddenly to avoid a collision.
- If any other warning sound (such as the seatbelt warning chime) is already generated, the Parking Collision-Avoidance Assist warning may not sound.
- Parking Collision-Avoidance Assist may not work properly if the bumper has been damaged, replaced, or repaired.
- Parking Collision-Avoidance Assist may not operate properly in areas with strong electromagnetic interference.
- Playing the vehicle audio system at a high volume may prevent passengers from hearing Parking Collision-Avoidance Assist warning sounds.
- The brake control may not operate properly depending on the status of brake system. There will only be a warning when:
  - ◦ The brake system warning light is illuminated.

◦ brake system is activated in a different function.

- Check your brake fluid and brake pad conditions regularly. The brake performance may decrease depending on the brakes' condition.
- Turn OFF Parking Collision-Avoidance Assist when towing a trailer. If you are towing and moving in reverse, Parking Collision-Avoidance Assist will detect the trailer and activate.
- Driving with the liftgate open is considered abnormal operation; exercise caution for safety.

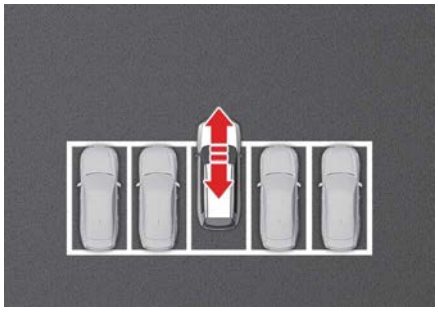
TIP

Parking Collision-Avoidance Assist can detect a pedestrian or an object when:

- A pedestrian is standing behind the vehicle.
- A large obstacle, such as another vehicle, is parked in the rear center of your vehicle.

Remote Smart Parking Assist (RSPA) (if equipped)

Remote Smart Parking Assist uses the front, front side, rear side, and rear ultrasonic sensors to detect parking spaces and control vehicle steering, speed, gear shifts, and help enter and exit parking spaces remotely from outside your vehicle.

Function	Description
Remote Operation	Remotely moving forward or backward  OLQ2A105068

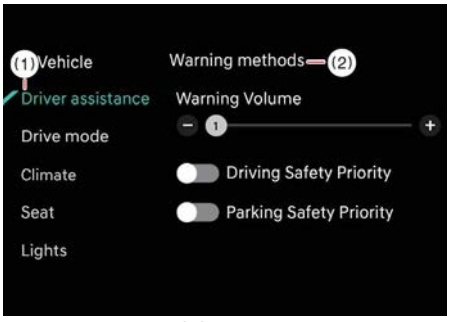
- Remote Smart Parking may be operated from outside the vehicle using the smart key.
- When Remote Smart Parking Assist operates, Parking Distance Warning and Surround View Monitor will also operate. For more details, refer to "Parking Distance Warning (PDW)" on page 624 and "Surround View Monitor (SVM)" on page 604.

WARNING

- Never disassemble or apply impact on the ultrasonic sensor or its surrounding.
- If foreign material (snow, rain or etc.) block the ultrasonic sensor, the detecting performance may not operate properly. Check the ultrasonic sensor, if the ultrasonic sensor is dirty, clean it with a soft cloth.
- Do not press the ultrasonic sensor too hard, shock it with a hard object or scratch it with a sharp object.
- Do not spray the ultrasonic sensors directly with a high pressure washer.
- Remote Smart Parking Assist may not operate properly when bumper height or ultrasonic sensor installation has been modified, if any accessories or stickers installed on the field of view of the ultrasonic sensor.

Remote Smart Parking Assist settings

Warning methods



OLQ2A005119

(1) **Driver Assistance**
(2) **Warning Methods**

The Warning Methods can be set with the vehicle on. Select **Settings > Vehicle > Driver Assistance > Warning methods( )** from the settings menu in the infotainment system to change the following settings:

- **Warning volume**: Adjusts the volume of the warning sound.

CAUTION

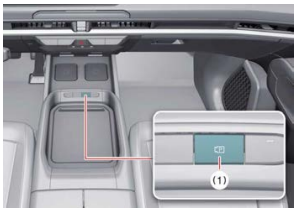
- Do not use the system if a trailer or another vehicle is being towed, or if a carrier or other equipment affecting sensor operation or vehicle stability is installed. The system may not operate properly.
- When connecting a trailer or carrier, set the trailer or carrier menu (if applicable). If the driver sets the menu manually, or if the trailer or carrier connection is automatically recognized via the manufacturer's dedicated parts, the functions of the driver assistance system may be limited. Refer to "Driver assistance system limitations" on page 653.

TIP

- Ensure that Warning methods you have set may apply to the Warning methods of other driver assistance systems.
- Warning methods will maintain its last setting even if the vehicle is restarted.
- The setting menu may not be available for your vehicle depending on the vehicle features and specifications.

Remote Smart Parking Assist operation

Remote Smart Parking button

Parking/View button	Smart key
	
OLQ2A105057	OOV055019

Location	Name	Symbol	Description
Inside vehicle	Parking/View button		• Press and hold the Parking/View button to turn on Remote Smart Parking Assist. Also, Forward/Reverse Parking Distance warning will automatically turn on. (However, functions may differ depending on the situations. Refer to each function's description for more details in the following pages.)
Smart key	Remote Start button		• Press the Remote Start button after the door is locked with the vehicle off to start the vehicle remotely. • Press the Remote Start button while Remote Operation function is operating to end function operation.
	Forward button		• When using the Remote Operation function, the vehicle moves in the direction of the button while the button is pressed.
	Backward button		

Remote Operation

Operating order

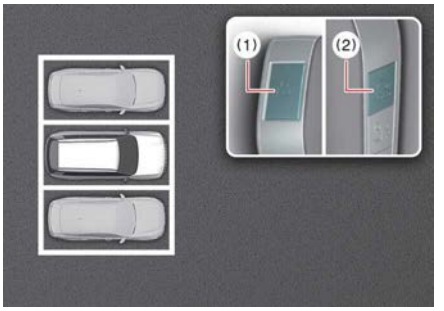
Remote Operation operates in the following order:

1. Getting ready to remotely move forward and backward
2. Remotely moving forward and backward

1. Getting ready to remotely move forward and backward

There are two ways to operate Remote Operation function.

Method (1): Using the function with vehicle off



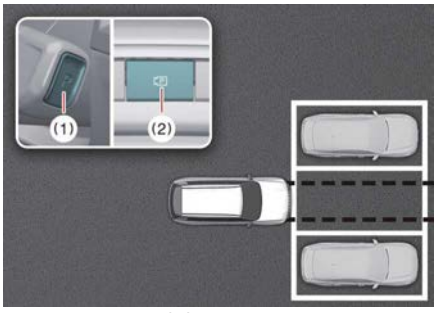
OLQ2A105069_2

(1) Within a certain range from the vehicle press the door lock ( ) button on the smart key and lock all doors.

(2) Press and hold the Remote Start button ( ) within 4 seconds until the vehicle starts.

* For more details on remotely starting the vehicle, refer to "Lower Anchors and Tether for Children (LATCH) system" on page 255.

Method (2): Using the function with vehicle on



OLQ2A105070_2



OLQ2A005111

(1) **1. Leave the vehicle (keep the key) and close the doors.**

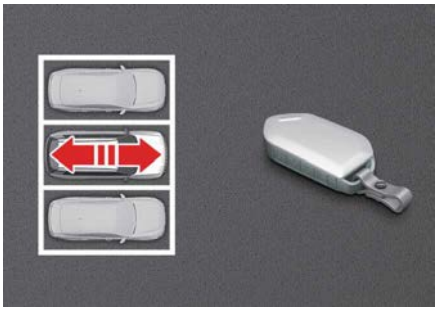
(2) **2. Press and hold the parking button on the Smart Key.**

1. Park the vehicle in front of the space where you want to use Remote Operation function, and shift the gear to P (Park).
2. Press and hold the Parking/View ( ) button to turn on Smart Parking Assist. A message **Under REMOTE control** will appear on the infotainment system screen.
3. Get out of the vehicle with the smart key and close all doors.

TIP

- **Agree** must be selected on the infotainment system screen and the infotainment system has to operate properly to use Remote Operation function.
- Before using the remote forward/reverse function from outside the vehicle, ensure that no smart key remains inside the vehicle. If an additional smart key is inside the vehicle, the remote forward/reverse function will not operate.

2. Remote Operation



OLQ2A105071

Using the Smart key

1. Press and hold one of the Forward ( ) or Backward ( ) button on the smart key.
   - Remote Smart Parking Assist will automatically control the steering, acceleration/deceleration, and gear shifting. The vehicle will move in the direction of the button pressed.
   - While Remote Operation function is operating, if you release the button, the vehicle will stop and function control will pause. The function will start operating again when the button is pressed and held again.
2. Hold down the Forward ( ) or Backward ( ) button until the vehicle reaches the target location.
3. When Remote Operation is done, get in the vehicle with the smart key or press the Remote Start ( ) button on the smart key from outside the vehicle.
   - The message will appear on the infotainment system screen. The vehicle will automatically shift to P (Park) and engage the parking brake.
   - When the Remote Start ( ) button is pressed, the vehicle will turn off. If the driver is in the vehicle, the vehicle will retain ON position.

TIP

- Remote Operation can control the vehicle remotely using the smart key outside the vehicle.
- Check that all smart keys are outside the vehicle when using Remote Operation function.
- The detecting range of the smart key may vary depending on the surroundings that are affected by radio waves such as transmission tower, broadcast station, etc.
- When remotely moving forward using method (1), it is recognized as an exit situation, and the vehicle moves 13 ft. (4 m) to check for pedestrians, animals or objects around the vehicle. After confirmation, the steering wheel is controlled according to the condition ahead.
- When remotely moving forward using method (2), it is recognized as a parking situation, and will immediately control the steering wheel according to the condition ahead to assist with entering the parking space and aligning the vehicle. However, performance may reduce depending on the pedestrians, animals, shape of objects, location, etc. around the vehicle.
- For moving remotely backward, both method (1) and (2) aligns the steering wheel first, and then will only move the vehicle straight.

WARNING

- When using Remote Operation function, make sure that all passengers have gotten out of the vehicle.
- Before leaving the vehicle, close windows and sunroofs, and make sure the vehicle is off before locking the doors.
- If the vehicle's battery is discharged or Remote Smart Parking Assist malfunctions when parked in a narrow parking space, Remote Operation function will not operate. Always park your vehicle in a space wide enough for you to get in or out of your vehicle.
- Please note that depending on the parking space, you may not be able to exit from the space you have entered by using Remote Operation function.
- After parking, the surrounding may change due to the movement of surrounding vehicles. If this occurs, Remote Operation function may not operate.

Remote Smart Parking Assist operation status

Operation Status	Smart key LED
Under control	Green LED Continuously blinks
Pause	Red LED Continuously blinks
Off	Red LED illuminates for 4 seconds and then turns off
Complete	Green LED illuminates for 4 seconds and then turns off

TIP

- Operation status by the hazard warning light may not be applicable based on the regulation of your country.
- If the smart key is not within the operating range from the vehicle (approximately 13 ft. (4 m)), the smart key LED will not appear or blink. Use the smart key within the operating range.

How to turn off Remote Operation function while operating

- Press the Parking/View ( ) button or shift the gear except to P (Park) while the infotainment system screen guides the driver using method 2.
- Press the Parking Safety ( ) button or select **Cancel** on the infotainment system screen.
- Press the Remote Start ( ) button on the smart key while the vehicle is being controlled by Remote Operation function. Remote Operation function will turn off. At this time, the vehicle will turn off.
- Get on the vehicle with the smart key. Remote Operation function will turn off. At this time, the vehicle will remain on.

The function will pause in the following conditions when:

When Remote Operation function is paused, the vehicle will stop. If the condition that made the function to pause disappears, the function may operate again.

- There is a pedestrian, animal or object in the direction the vehicle is moving
- The door or liftgate is open

- The Forward ( ) or Backward ( ) button is not continuously pressed
- Simultaneously pressing multiple buttons on a smart key
- The smart key is not operated within 13 ft. (4 m) from the vehicle
- Button of another smart key is pressed in addition to the operating smart key (Excluding start button)
- When Parking Collision-Avoidance Assist, Blind-Spot Collision-Avoidance Assist or Rear Cross-Traffic Collision-Avoidance Assist operates

The function will cancel in the following conditions when:

When Remote Operation function is canceled, the vehicle will automatically stop, shift the gear to P (Park) and engage EPB (Electronic Parking Brake).

- The steering wheel is steered
- The gear is shifted while the vehicle is moving
- Operating EPB while the vehicle is moving
- The vehicle hood is open
- The brake pedal or accelerator pedal is depressed when all the doors are closed
- The smart key is outside the vehicle when the brake pedal is depressed while the driver's door is open
- Rapid acceleration occurs
- Vehicle skid occurs
- The wheel is stuck by an obstacle and cannot move
- Approximately 3 minutes and 50 seconds have passed after Remote Operation function has started to operate
- The slope of the road exceeds the operational range
- The total travel distance of the vehicle has exceeded 66 ft. (20 m) after Remote Operation function operation
- The steering wheel, gearshift, braking, and drive controls are not working normally
- There is a problem with the smart key or the smart key battery is low
- ABS, TCS or ESC system operates due to slippery road conditions
- The alarm of the Theft Alarm System sounds

Remote Smart Parking Assist malfunction and limitations

Remote Smart Parking Assist malfunction

Remote Smart Parking Assist check



OLQ2A005112

(1) **Check Parking Assist**
(2) **Visit A Nearby Service Center.**

When Remote Smart Parking Assist is not working properly, the **Check Parking Assist** warning message will appear on the infotainment system screen. If the message appears, stop using the function, and have the vehicle inspected by an authorized Kia dealer.

Remote Smart Parking Assist canceled



OOV055172L

(1) **Parking Assist Canceled.**
(2) **Please Refer To Owner's Manual.**

When Remote Smart Parking Assist is operating, the function can be canceled, and the **Parking Assist Canceled.** warning message may appear regardless of the parking order. Other messages may appear depending on the situations. Follow the instructions provided on the infotainment system screen while parking your vehicle with Remote Smart Parking Assist. Always look around and pay attention when using the function.

Remote Smart Parking Assist standby



OOV055173L

(1) **Parking Assist Conditions Not Met**
(2) **Please Refer To Owner's Manual.**

When **Parking Assist Conditions Not Met** message appears, when Parking/View ( ) button has been pressed and held, Remote Smart Parking Assist is in standby. After a while, press and hold the Parking/View ( ) button again to see if the function works.
The message appears even when the smart key's battery is low. Check the smart key battery level.

Limitations of Remote Smart Parking Assist

In the following circumstances, function performance to park or exit the vehicle may be limited, there may be a risk of collision, or Remote Smart Parking Assist may turn off. Park or exit the vehicle manually if necessary.

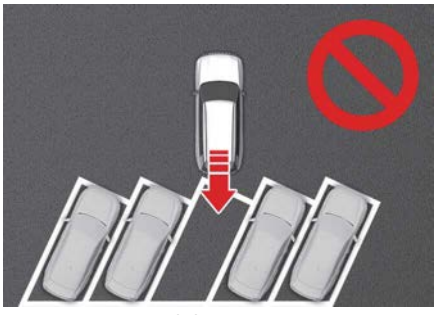
- Accessories are attached to the steering wheel or steering components are modified
- The vehicle is fitted with a snow chain, spare tire or different size wheel
- Tire pressure is lower or higher than the standard tire pressure
- Your vehicle is loaded with cargo longer or wider than your vehicle or a trailer is connected to your vehicle
- Wheels are misaligned or suspension components are modified
- Your vehicle is leaning severely to one side
- Your vehicle is equipped with a trailer hitch
- The license plate is not installed in the original location
- There is a person, animal or object above or below the ultrasonic sensor when Remote Smart Parking Assist is activated
- The parking space is curved or diagonal
- There is an obstacle such as a person, animal or object (trash can, bicycle, motorcycle, shopping cart, narrow pillar etc.) near the parking space
- There is a circular pillar or narrow pillar, or a pillar surrounded by objects such as fire extinguisher, etc. near the parking space
- The road surface is bumpy (curbstone, speed bump, etc.)
- The road is slippery
- The parking space is near a large vehicle, or one with higher ground clearance, such as a truck, etc.
- The parking space is Inclined
- There is heavy wind
- Operating Remote Smart Parking Assist on uneven roads, gravel roads, bushes, etc.

- The performance of the ultrasonic sensor is affected by extremely hot or cold weather
- The ultrasonic sensor is covered with snow or water
- An object that generates ultrasonic waves is nearby
- A wireless device with a transmission function operates near the ultrasonic sensors
- Your vehicle is affected by another vehicle's Parking Distance Warning
- The sensor is mounted or positioned incorrectly due to 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 40 inches (100 cm) in length and narrower than 6 inches (14 cm) in diameter
- Objects which tend to absorb sensor frequency, such as clothes, spongy material or snow
- A trailer hitch installed on the vehicle

Remote Smart Parking Assist may not operate normally under the following circumstances:

Limitations	Details
Parking on inclines  OLQ2A105072	Park manually when parking on inclines.
Parking on uneven road  OLQ2A105073	Remote Smart Parking Assist may cancel when the vehicle slips, or the vehicle cannot move due to road conditions such as pebbles or fragmented stones.

Limitations	Details
Around high-level obsta cles such as truck cargo beds  OLQ2AH105008	Using Remote Smart Parking Assist near obstacles or structures located at heights that sensors may have difficulty detecting, such as truck cargo beds, may result in a collision. Park or exit the vehicle manually instead of using Remote Smart Parking Assist.
Parking near a pillar  OLQ2A105075	Remote Smart Parking Assist performance may reduce or collision with an obstacle may occur when there is a narrow object, circular pillar, square pillar, or a pillar surrounded by objects such as a fire extinguisher, etc. near the parking space. The driver should park the vehicle manually.
Parking in a parking space with a vehicle on one side only  OLQ2A105076	If Remote Smart Parking Assist is used, when parking in a parking space with a vehicle only on one side, your vehicle may cross the parking line to avoid the parked vehicle.

Limitations	Details
Parking in snow  OLQ2A105079	Snow may interfere with sensor operation, or Remote Smart Parking Assist may cancel if the road is slippery while parking.
Parking diagonally  OLQ2A105078	Remote Smart Parking Assist does not provide diagonal parking. Even if your vehicle was able to enter the parking space, do not use the function because the function cannot operate normally.

WARNING

- It is the driver's responsibility to park and exit safely. Use Remote Smart Parking Assist while checking your surroundings at all times when parking and exiting. Under various environmental conditions, braking control may not operate because people, animals, other vehicles or objects around the vehicle may not be properly detected. If there is a risk of collision with a nearby obstacle, release the control button to stop the function.
- When using Remote Smart Parking Assist, stay out of the way in the direction the vehicle moves for your safety.
- Always check surroundings when using Remote Smart Parking Assist. You may collide with pedestrians, animals, or objects if they are near the sensor or are in the sensor's blind spot area.
- A collision may occur if a pedestrian, animal, or object suddenly appears while Remote Smart Parking Assist is operating.
- Do not use Remote Smart Parking Assist when under the influence of alcohol.
- Do not let children or other people use the smart key.
- If Remote Smart Parking Assist is used continuously for a long period, it may adversely affect Remote Smart Parking Assist performance.

- Remote Smart Parking Assist may not operate normally if the vehicle needs wheel alignment adjustment such as when the vehicle tilts to one side. Have the vehicle inspected by an authorized Kia dealer.
- Noise may be heard when braking occurs by Remote Smart Parking Assist or when the brake pedal is depressed by the driver.
- Remote Smart Parking Assist may suddenly apply the brake to avoid collision.
- Use Remote Smart Parking Assist only in a parking space that is large enough for the vehicle to move safely.
- Driving with the liftgate open is considered abnormal operation. Please exercise caution for your safety.
- Always keep the detection sensors clean.
- When cleaning the sensor surface, use only mild soap or a neutral detergent, and rinse thoroughly with water. Do not use acidic or alkaline cleaners.
- Do not spray high pressure water directly onto the detection sensors or their surrounding areas during car washing. Impact from high-pressure water may cause the sensors to malfunction.
- Do not cover the area around the detection sensors with external objects (such as stickers or bumper guards), and do not paint the bumper. The performance of the Remote Smart Parking Assist may be degraded.
- Do not disassemble or apply impact to the detection sensor components.
- Be careful not to subject the detection sensors to impact. If the sensors become misaligned due to impact, the Remote Smart Parking Assist may not operate properly. If a sensor is damaged by impact, have it inspected by an authorized Kia dealer.
- If the bumper is damaged, replaced, or repaired, the Parking Distance Warning may not function properly.
- The Remote Smart Parking Assist may turn off due to strong electromagnetic interference.
- Excessive sound from the audio system may prevent you from hearing the warning sound. Adjust the in-vehicle volume appropriately and always remain attentive.
- To prevent a collision, sudden braking and resulting brake noises may occur.

NOTE

- If the 3rd stage warning (continuous beep) of the Forward/Reverse Parking Distance Warning sounds while Remote Smart Parking Assist is operating, it means the obstacle detected is close to your vehicle. At this time, Remote Smart Parking Assist will temporarily stop operating. Make sure there are no pedestrians, animals, or objects around your vehicle.
- Depending on brake operation, the stop lights may come on while the vehicle is moving.
- If the vehicle is remotely started that has been parked in cold weather for a long time, the operation of Remote Parking function may be delayed or canceled depending on vehicle condition.

Driver assistance system limitations

When towing a trailer or using a carrier, the control stability of driver assistance systems may be reduced. In such cases, turn off the driver assistance systems and always drive attentively and safely. Refer to each system's description for more information.

If the vehicle is equipped with proprietary components or functions that can detect trailer attachment, certain driver assistance system functions may be restricted when a trailer is recognized as connected. Check the specifications applied to your vehicle and use them accordingly.

The following driver assistance systems may be limited. Be aware of this when driving. For detailed information on each function, refer to the descriptions of the driver assistance systems.

- Type A: Carrier menu applied in the infotainment system.
- Type B: Trailer menu applied in the infotainment system.

Function	Driver assistance system settings and functions	Type A	Type B	
		Trailer is connected	Trailer mode selected	Carrier mode selected
Forward Collision-Avoidance Assist (FCA)	Forward safety, Forward cross-traffic safety	-	-	-
	Forward/Side safety	Disabled	Disabled	Disabled
Lane Keeping Assist (LKA)	Lane Safety	Top speed approximately 55 mph (90 km/h)	Top speed approximately 55 mph (90 km/h)	-
Blind-Spot Collision-Avoidance Assist (BCA)	Blind-spot safety	Disabled	Disabled	Disabled
Safe Exit Warning (SEW)	Safe exit	Disabled	Disabled	Disabled
Safe Exit Assist (SEA)	Safe exit	Disabled	Disabled	Disabled
Lane Following Assist (LFA)	-	Top speed approximately 55 mph (90 km/h)	Top speed approximately 55 mph (90 km/h)	-
Highway Driving Assist (HDA)	Highway Driving Assist	-	-	-
	Highway Lane Change Assist	Disabled	Disabled	Disabled
Rear Cross-Traffic Collision-Avoidance Assist (RCCA)	Rear cross-traffic safety	Disabled	Disabled	Disabled
Parking Distance Warning (PDW)	Forward/Side Parking Distance Warning	-	-	-
	Reverse Parking Distance Warning	Disabled (Only when the trailer/carrier connector is connected.)	Disabled (Only when the trailer/carrier connector is connected.)	Disabled (Only when the trailer/carrier connector is connected.)
Reverse Parking Collision-Avoidance Assist (PCA)	Parking safety	Disabled	Disabled	Disabled
Remote Smart Parking Assist (RSPA)	-	Disabled	Disabled	Disabled

WARNING

- If the trailer connector is not properly connected or the trailer menu is not configured correctly, the control stability of the driver assistance systems may be reduced, which could lead to an accident.
- The trailer menu settings are retained even after the vehicle is restarted. Always check that the connector is properly connected and the settings are correct before driving carefully.

Declaration of conformity

The radio frequency components (Front Radar) comply:

For United States and United States territories



FCC ID
: 2A3OZ-MRR-35
This device complies with Part 15 of the FCC Rules.
Operation is subject to the following two conditions:
(1) this device may not cause harmful interference, and
(2) this device must accept any interference received,
including interference that may cause undesired operation.

CAUTION TO USERS
Changes or modifications not expressly approved by the
party responsible for compliance could void the user`s
authority to operate the equipment.

OMQ4A055138

For Canada

Model: MRR-35
IC: 27992-MRR35

This device complies with Industry Canada licence-
exempt RSS standard(s). Operation is
subject to the following two conditions:
(1) this device may not cause interference, and
(2) this device must accept any interference,
including interference that may cause undesired
operation of the device.
Le présent appareil est conforme aux CNR
d'Industrie Canada applicables aux appareils
radio exempts de licence. L'exploitation est autorisée
aux deux conditions suivantes:
(1) l'appareil ne doit pas produire de brouillage,
et
(2) l'utilisateur de l'appareil doit accepter tout
brouillage radioélectrique subi, même si le
brouillage est susceptible d'en compromettre
le fonctionnement.

OMQ4A055139

The radio frequency components (Front Corner Radar/Rear Corner Radar) comply: (if equipped)

For United States and United States territories



N_CT25E046_E

FCC ID : LTQ2H5TR
This device complies with Part 15 of the FCC Rules.
Operation is subject to the following two conditions:
(1) this device may not cause harmful interference, and
(2) this device must accept any interference received, including interference that may cause undesired operation.
CAUTION TO USERS
Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

N_CT25E047_E

For Canada

Model: 2H5TR
IC: 3659A-2H5TR

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions:
(1) this device may not cause interference, and
(2) this device must accept any interference, including interference that may cause undesired operation of the device.
Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:
(1) l'appareil ne doit pas produire de brouillage, et
(2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

OMQ4A055137

What to do in an emergency

Road warning 660
Hazard lights switch 660
If the engine does not start 661
Emergency starting 662
Jump starting 662
Push starting 664
If the engine overheats 665
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Effective use of TPMS 667
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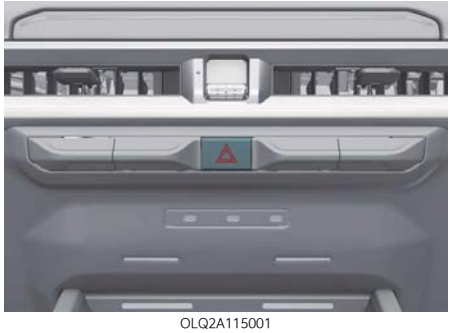
What to do in an emergency

Road warning

When an emergency situation occurs while you are driving or when you park by the edge of the road, turn the hazard lights on to alert approaching vehicles to be careful as they pass.

Hazard lights switch

The hazard lights warn other drivers to exercise extreme caution when approaching, overtaking, or passing your vehicle.



OLQ2A115001

Use the hazard lights when your vehicle is stopped near the edge of the road or undergoing emergency repairs.

Push the hazard lights switch when the vehicle is in any position. The hazard lights switch is located in the center front panel. All turn signal lights blink simultaneously.

- The hazard lights switch operates whether your vehicle is running or not.
- Turn signal lights do not work when hazard lights are on.
- Be careful using the hazard lights while the vehicle is being towed.

If the engine does not start

If the engine does not start, first check to see how much fuel there is and whether the 12V battery is discharged.

If the engine does not turn over or turns over slowly

1. Be sure the vehicle is in P (Park) and the emergency brake is applied.
2. Check the 12V battery connections to be sure they are clean and tight.
3. Turn the interior light on. If the light dims or goes out when you operate the starter, the battery is discharged.
4. Check the starter connections to be sure they are securely tightened.

NOTE

Do not push or pull the vehicle to start it. This could cause damage to your vehicle. Refer to "Jump starting" on page 662.

If the engine turns over normally but does not start

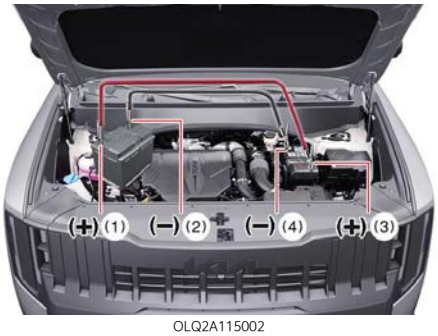
1. Check the fuel level and add fuel if necessary.
2. With the vehicle in OFF position, check all connectors at the ignition coils and spark plugs. Reconnect any that may be disconnected or loose.
3. Check the fuel line in the engine compartment.
4. If the engine still does not start, call an authorized Kia dealer or seek other qualified assistance.

Emergency starting

When the vehicle does not start because of low 12V battery power, you may need to jump start the vehicle.

Jump starting

Connect the cables in the numerical order shown in the following image (and disconnect them in the reverse order):



OLQ2A115002

(1) (+) terminal of the booster battery
(2) (-) terminal of the booster battery
(3) (+) terminal of the discharged battery
(4) (-) terminal of the discharged battery

Jump starting can be dangerous if done incorrectly. To avoid harm to yourself or damage to your vehicle or battery, follow the jump starting procedures in this section. If in doubt, have a competent technician or towing service jump start your vehicle.

WARNING

- Do not attempt to jump start the vehicle if the discharged battery is frozen, as the battery may rupture or explode.
- Never attempt to check the electrolyte level of the battery, as this may cause the battery to rupture or explode.
- Keep all flames or sparks away from the battery. The battery produces hydrogen gas, which may cause an explosion if it is exposed to flame or sparks.

  If you do not follow these instructions exactly, serious personal injury and damage to the vehicle may occur. If you are not sure how to follow this procedure, seek qualified assistance. Automobile batteries contain sulfuric acid, which is poisonous and highly corrosive. When jump starting your vehicle, wear protective glasses and be careful not to get acid on yourself, your clothing, or the vehicle.
- Do not attempt to jump start the vehicle if the discharged battery is frozen or the electrolyte level is low. The battery may rupture or explode.
- Do not allow the (+) and (-) jumper cables to touch each other. This may cause sparks.
- Do not connect the jumper cable from the negative terminal of the booster battery to the negative terminal of the discharged battery. This can cause the discharged battery to overheat and crack or degrade. Connect one end of the jumper cable to the negative terminal of the booster battery, and the other end to a metallic point far away from the battery.

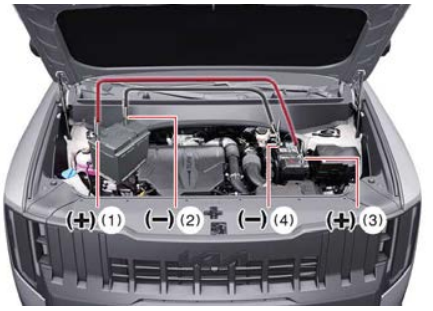
- Automobile batteries contain sulfuric acid. When jump starting your vehicle, be careful not to get sulfuric acid on yourself, your clothing, or the vehicle. This acid is poisonous and highly corrosive.

NOTE

Use only a 12V jumper system. You can damage a 12V starting motor, ignition system, and other electrical parts beyond repair by using a 24V power supply (either two 12V batteries in a series or a 24V motor generator set).

Jump starting instructions

1. Make sure the booster battery is 12V and that its negative terminal is grounded.
   If the booster battery is in another vehicle, do not allow the vehicles to come into contact.
2. Turn off all unnecessary electrical loads.
3. Connect the jumper cables in the exact sequence shown in the following illustration:



OLQ2A115002

   1. Connect one end of a jumper cable to the positive terminal of the discharged battery (3).
   2. Connect the other end of that jumper cable to the positive terminal of the booster battery (1).
   3. Connect one end of the other jumper cable to the negative terminal of the booster battery (2).
   4. Connect the other end of that jumper cable to a ground: a solid, stationary, metallic point (such as the engine lifting bracket) away from the battery (4).
      Do not allow the jumper cables to contact anything except the correct battery terminals or the correct ground. Do not lean over the battery when connecting the jumper cables.
4. If you have connected the jumper cables with another vehicle, start the vehicle containing the booster battery first and let it run at 2,000 rpm for several minutes.
5. Start the vehicle containing the discharged battery.
6. If the vehicle containing the discharged battery starts, disconnect the end of the jumper cable from the negative terminal of the booster battery (2). Then disconnect the other jumper cable from the positive terminal of the booster battery (1) and the discharged battery (3).
   If it is not obvious why your battery was discharged, have your vehicle checked by an authorized Kia dealer.

Push starting

Vehicles equipped with Automatic Transmission can only be jump started, not push started. Follow the instructions in this section for "Jump starting" on page 662.

WARNING

Tow starting the vehicle
Never tow your vehicle to start it. When the vehicle starts, your vehicle can suddenly surge forward and collide with the vehicle towing it.

If the engine overheats

If your temperature gauge indicates overheating, you experience a loss of power, or you hear a loud pinging or knocking sound, the engine is probably too hot.

If this happens, you should:

1. Pull off the road and stop as soon as it is safe to do so.
2. Shift to P (Park) and apply the parking brake.
3. If the air conditioning is on, turn it off.
4. If engine coolant is leaking under the vehicle or steam is coming from underneath the hood, stop the engine. Do not open the hood until the coolant has stopped leaking or the steam has disappeared.
5. If there is no visible engine coolant leak and no steam, leave the engine running and check to make sure the engine cooling fan is operating.

   If the fan is not operating, turn the engine off.
6. Check to see if the water pump drive belt is missing.
   - If the drive belt is not missing, check to make sure that it is tight.
   - If the drive belt seems satisfactory, check for coolant leaking from the radiator, hoses, or under the vehicle. (If you have been using the air conditioning, it is normal for cold water to drain from it when you stop).
7. If the water pump drive belt is broken, or if engine coolant is leaking, stop the engine immediately and call the nearest authorized Kia dealer for assistance.
8. If you cannot find the cause of the engine overheating, wait until the engine temperature has returned to normal. If coolant has been lost, carefully add coolant to the reservoir to bring the fluid level up to the reservoir's halfway mark.
9. Proceed with caution, keeping alert for further signs of the engine overheating. If overheating recurs, have your vehicle checked by an authorized Kia dealer for assistance.

⚠ WARNING

Under the hood



While the engine is running, keep your hair, hands, and clothing away from moving parts (such as the fan and drive belts) to prevent injury.

⚠ WARNING

Coolant reservoir cap



Do not remove the engine coolant reservoir cap when the engine is hot. This may result in coolant blowing out of the opening and causing serious burns.

NOTE

- Serious loss of coolant indicates that there is a leak in the cooling system. This should be checked as soon as possible. Have your vehicle checked by an authorized Kia dealer.
- When the engine overheats due to low engine coolant, suddenly adding engine coolant may cause cracks in the engine. To prevent damage, add engine coolant slowly and in small quantities.

In case of an emergency while driving

In an emergency, stay calm and follow these steps:

If the vehicle stalls while driving

1. Reduce your speed gradually, staying in a straight line.
2. Move cautiously off the road to a safe place.
3. Turn your hazard lights on.
4. Try to restart your vehicle. If your vehicle does not restart, contact an authorized Kia dealer.

If the vehicle stalls at a crossroad or junction

1. Shift to N (Neutral).
2. Push the vehicle to a safe place if you can do so safely.

If you have a flat tire while driving

1. Remove your foot from the accelerator pedal and let the vehicle slow down while driving straight ahead.

   Do not engage the brakes immediately or attempt to pull off the road, as this may cause a loss of control.
2. When the vehicle has slowed to a safe speed, brake carefully and pull off the road.
3. 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 unless absolutely necessary.
4. When the vehicle is stopped, turn your hazard lights ON, apply the parking brake, and shift the gear to P (Park).
5. Have all passengers exit the vehicle. Be sure they all exit on the side of the vehicle that is facing away from traffic.
6. When changing a flat tire, follow the instructions provided later in this section.

Tire Pressure Monitoring System (TPMS)

The Tire Pressure Monitoring System (TPMS) detects the pressure of the vehicle's tires and displays it on the instrument cluster.



OLQ2A115003



OLQ2A115030

(1) Low tire pressure or TPMS malfunction indicator light
(2) Low tire pressure position indicator light (shown on the instrument cluster)

Tire pressure indicator

- You can check the tire pressure in assist mode on the instrument cluster. For more information, refer to "LCD display modes" on page 164.
- The tire pressure indicator appears 1 - 2 minutes after you start driving.
- If the tire pressure does not display when you stop the vehicle, **Drive to display** warning message displays. After driving, check the tire pressure again.
- You can choose from the following tire pressure units in the user settings on the instrument cluster: psi, kPa, and bar (refer to "LCD display modes" on page 164).

TIP

- The tire pressure may change due to factors such as parking conditions, driving style, and altitude above sea level.
- The tire pressure shown on the instrument cluster may differ from the tire pressure measured by a tire pressure gauge.
- A low tire pressure warning may sound when a tire's pressure unit is equal to or lower than the nearby tires. This is normal operation due to the change in tire pressure along with the tire temperature.

Effective use of TPMS

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 sys-

tem (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.

WARNING

Over-inflation or under-inflation can reduce tire life, adversely affect vehicle handling, and lead to sudden tire failure that may cause loss of vehicle control resulting in a collision.

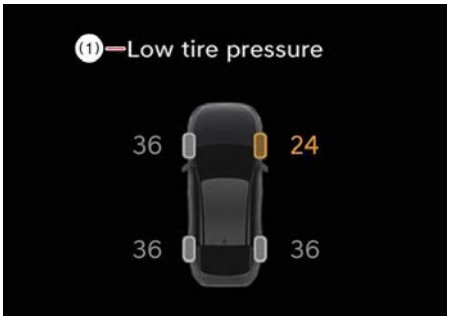
NOTE

Have your vehicle checked by an authorized Kia dealer under any of the following circumstances:

- The low tire pressure or TPMS malfunction indicator light does not illuminate for 3 seconds when the vehicle is in ON position or the vehicle is running.
- The TPMS malfunction indicator light remains illuminated after blinking for approximately 1 minute.
- The low tire pressure position indicator light remains illuminated.

Low tire pressure indicator light

When the TPMS warning indicators are illuminated, one or more of your tires is significantly under-inflated.



OLQ2A115031

(1) **Low tire pressure**

If the indicator light illuminates, immediately reduce your speed, avoid hard turning, and anticipate increased stopping distances. Stop and check your tires as soon as possible.

Inflate the tires to the proper pressure indicated on the vehicle's placard or on the tire inflation pressure label (located on the driver 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 TPMS malfunction and low tire pressure indicator light may illuminate after you restart the vehicle. After that, you have about 20 minutes of continuous driving before you must have the low pressure tire repaired and replaced.

In winter or cold weather, the low tire pressure indicator light may illuminate if you adjusted the tires to the recommended inflation pressure in warm weather. This does not mean your TPMS is malfunctioning; the decreased temperature leads to a proportional lowering of tire pressure.

Check the tire inflation pressure and adjust the tires to the recommended pressure under the following conditions:

- You are driving from a warm area to a cold area.
- You are driving from a cold area to a warm area.
- The outside temperature is extremely high or low.

Filling tires with more air may not meet the conditions required to turn the low tire pressure indicator light off. This is because a tire inflator has a margin of error in performance. The low tire pressure indicator light turns off if the tire pressure is above the recommended tire inflation pressure.

⚠ WARNING

Low pressure damage

Do not drive on low pressure tires. Significantly low tire pressure can cause the tires to overheat and fail, making the vehicle unstable and resulting in increased braking distances and a loss of control.

TPMS malfunction indicator

When there is a problem with the TPMS, the low tire pressure indicator light ( ) illuminates after blinking for approximately 1 minute.

If the system correctly detects an underinflation warning at the same time as a system failure, it will illuminate both the TPMS malfunction and low tire pressure position indicator lights. (For ex-

ample, if the front left sensor fails, the TPMS malfunction indicator appears. However, if the front right, rear left, or rear right tire is underinflated, the low tire pressure position indicator lights may appear together with the TPMS malfunction indicator light.)

Have your vehicle checked by an authorized Kia dealer as soon as possible to determine the cause of the problem:

- The TPMS malfunction indicator light may illuminate if you drive your vehicle near electric power supply cables or radio transmitters (for example, at police stations, government and public offices, broadcasting stations, military installations, airports, transmitting towers, and so on). This can interfere with normal TPMS operation.
- The TPMS malfunction indicator light may illuminate if the vehicle is equipped with tire chains, or if you use a personal electronic device (such as a laptop computer, mobile charger, remote starter, or navigation system) in the vehicle. This can interfere with normal TPMS operation.

Tire replacement with TPMS

If you have a flat tire, the low tire pressure indicator light appears. Have your vehicle checked by an authorized Kia dealer as soon as possible, or replace the flat tire with the spare tire.

Each wheel is equipped with a tire pressure sensor mounted inside the tire behind the valve stem. You must use TPMS-specific wheels. Always have your tires serviced by an authorized Kia dealer.

Even if you replace the low pressure tire with the spare tire, the low tire pressure indicator light remains illuminated until you repair or replace the low pressure tire.

The TPMS malfunction indicator light may appear a few minutes after you replace the low pressure tire with the spare tire. This is because the TPMS sensor mounted on the spare wheel is not activated.

Once you inflate the low pressure tire to the recommended pressure and install it on the vehicle, or mount the TPMS sensor on the replaced spare wheel and have it activated by an authorized Kia dealer, the TPMS malfunction and low tire pressure indicator light turns OFF within a few minutes of driving.

If the indicator light does not turn OFF after a few minutes of driving, visit an authorized Kia dealer.

If you replace an original tire with the spare tire, the TPMS sensor on the replaced spare wheel should be activated, and the TPMS sensor on the original wheel should be deactivated. If the TPMS sensor on the original wheel located in the spare tire carrier is still active, the TPMS may not operate properly. Have the tire with the TPMS serviced or replaced by an authorized Kia dealer.

You may not be able to identify a low pressure tire simply by looking at it. Always use a good quality tire pressure gauge to measure the tire's inflation pressure. A tire that is hot (after being driven) will have a higher pressure measurement than a tire that is cold (after sitting stationary for at least 3 hours or being driven less than 1 mile (1.6 km) during that 3 hour period).

Allow the tire to cool before measuring the inflation pressure. Always be sure the tire is cold before inflating it to the recommended pressure.

Never use tire sealant if your vehicle is equipped with a TPMS. A liquid sealant can damage the tire pressure sensors, causing the following issues:

- The TPMS cannot alert you to severe and sudden tire damage caused by external factors, such as nails or road debris.
- If you feel any vehicle instability, immediately take your foot off the accelerator pedal, engage the brakes lightly and gradually, and slowly move to a safe position off the road.

CAUTION

Repair Agents

Never use a puncture-repairing agent not approved by Kia to repair or inflate a low pressure tire. A sealant that is not approved by Kia may damage the tire pressure sensor.

NOTE

Protecting TPMS

Tampering with, modifying, or disabling the TPMS components may interfere with the system's ability to warn you of low tire pressure conditions or TPMS malfunctions. It may also void the warranty for that portion of the vehicle.

This device complies with Part 15 of the FCC rules.

Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. this device must accept any interference received, including interference that may cause undesired operation.

TIP

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

If you have a flat tire (with spare tire)

If you have a flat tire, you can use tools to replace it with a spare tire.

WARNING

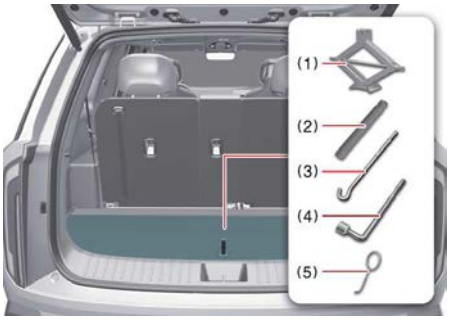
- Driving on a flat tire causes permanent damage to the tire. Reinflating a tire after you drive on it while the tire is severely underinflated or flat may cause a blowout and a serious crash. Never attempt to reinflate a tire that has been driven on while severely underinflated or flat. In this case, replace the flat tire as soon as possible.
- Changing a tire can be dangerous. To reduce the risk of serious injury or death, follow the instructions in this section when you change a tire.

CAUTION

When using the jack handle, be careful to stay clear of the flat end, as it has sharp edges that could cause cuts.

Jack and tools

Pull the luggage compartment up to reach this equipment:



OLQ2A115004

(1) Jack
(2) Socket
(3) Jack handle
(4) Wheel lug nut wrench
(5) Wheel cover remover tool

The equipment is stored in the luggage compartment.

Jacking instructions

The provided jack is only for emergency tire changes.

- Properly store the jack to keep it from rattling when your vehicle is in motion.
- To reduce the possibility of personal injury, follow the provided jacking instructions.

⚠ WARNING

Changing tires

- Never attempt vehicle repairs in the traffic lanes of a public road or highway.
- Always move the vehicle completely off of the road and onto the shoulder before you change a tire. Use the jack on firm, level ground. If you cannot find a firm, level place off of the road, call a towing services company for assistance.
- Be sure to use the correct front and rear jacking positions for your vehicle. Never use the bumpers or any other part of the vehicle for jacking support.
- Your vehicle can roll off of the jack and cause serious injury or death.
- Do not go underneath a vehicle supported by a jack.
- 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.
- Make sure any children present are in a secure place away from the road and the vehicle.

⚠ WARNING

Tire jack

Never put any part of your body under a vehicle that is only supported by a jack, as the vehicle can easily roll off of the jack. Use vehicle support stands.

WARNING

Changing tires
Never attempt vehicle repairs in the traffic lanes of a public road or highway.

WARNING

Running vehicle on jack
Do not start or run the vehicle while your vehicle is on the jack, as it may cause the vehicle to fall off of the jack.

Properly store the jack to keep it from rattling when your vehicle is in motion.

NOTE

- Take out the remover tool. Insert the tool to the hole and pull out the wheel cover.
- When removing the wheel cover, if you use any other tool except the tool provided, the wheel cover may be damaged.



OLQ2A115010

WARNING

Retreaded tires
Substantial design variations and the age of a retreaded tire's casing structure can limit service life and negatively impact driving safety.

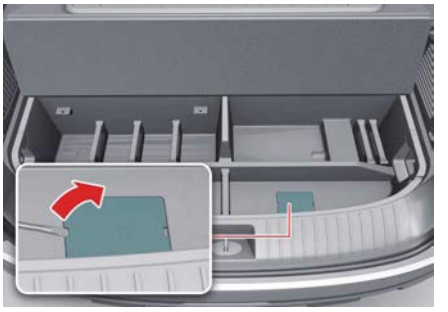
Removing and storing the spare tire

The spare tire is stored underneath your vehicle directly below the cargo area.

Removing the spare tire

To remove the spare tire from storage, follow these steps:

1. Open the liftgate.
2. Find the spare tire fixing bolt cover and remove the cover.
   If necessary, separate the tool case only after removing the clamp.



OLQ2A115005

3. Connect the socket and wheel lug nut wrench.



OLQ2A115006

4. Use the wheel lug nut wrench to loosen the bolt enough to lower the spare tire.
5. Turn the wrench counterclockwise until the spare tire reaches the ground.



OLQ2A115007

6. After the spare tire reaches the ground, continue to turn the wrench counterclockwise and draw the spare tire out. Never rotate the wrench excessively, as this may damage the spare tire carrier.
7. Remove the retainer (1) from the center of the spare tire. During tire removal and installation, try to keep the retainer cable tight to prevent backlashing or binding.



OLQ2A115008

Storing the spare tire

To store the spare tire, follow these steps:

1. Lay the tire on the ground with the valve stem facing up.
2. Place the wheel under the vehicle and install the retainer (1) through the wheel center.
3. Turn the wrench clockwise until it clicks.

WARNING

Touching surface of the cargo area

Do not touch the metal surface of the cargo area while the engine is running or hot, as this could result in serious bodily injury.

Turn the engine off and wait until it cools down, or wear gloves to remove the spare tire from the luggage compartment.

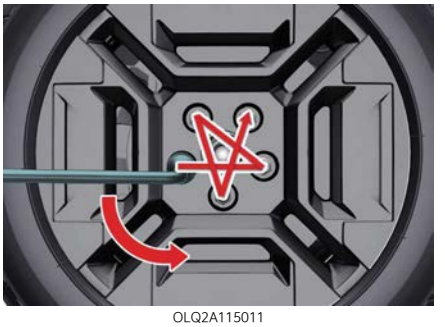
Changing tires

1. Park your vehicle on a level, firm surface, apply the parking brake, and turn the vehicle off.
2. Turn the hazard lights on.
3. Remove the wheel lug nut wrench, jack, jack handle, and spare tire from the vehicle.
4. Block both sides of the wheel diagonally opposite the jack position.



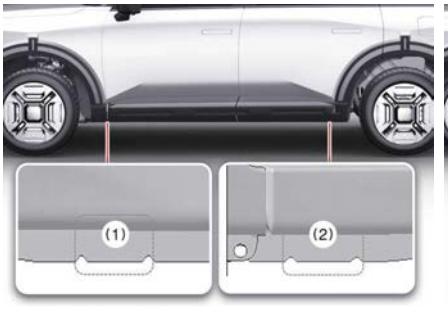
OLQ2A115009_2

5. Loosen the wheel lug nuts counterclockwise one turn each, but do not remove any of the nuts until the tire is raised above ground.

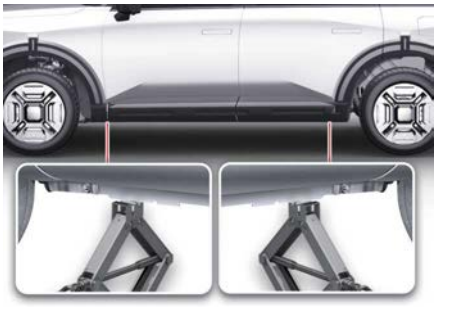


OLQ2A115011

6. Place the jack at the front (1) or rear (2) jacking position closest to the tire you are changing. Place the jack at the designated locations under the frame. The jacking positions are plates welded to the frame with two tabs and a raced dot.



OLQ2A115012_2



OLQ2A115013_2

7. Insert the jack handle into the jack and turn it clockwise, raising the vehicle until the tire just clears the ground (approximately 1.2 in (30 mm)). Before removing the wheel lug nuts, make sure the vehicle is stable and there is no chance of movement or slipping.

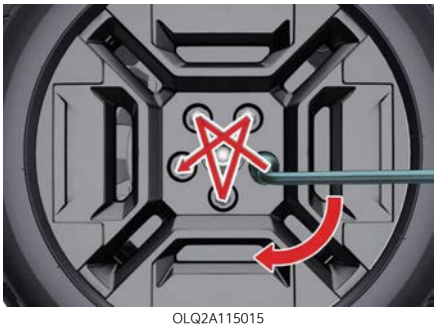


OLQ2A115014

8. Loosen the wheel lug nuts and remove them with your hands. Slide the wheel off the studs and lay it flat so it cannot roll away. To put the wheel on the hub, pick up the spare tire, line the holes up with the studs, and slide the wheel into place.

   If this is difficult, tip the wheel slightly and line up the top hole in the wheel with the top stud. Jiggle the wheel back and forth until you can slide the wheel over the other studs.
9. To reinstall the wheel, hold it on the studs, place the wheel lug nuts on the studs, and tighten them by hand. Jiggle the tire to be sure it is completely seated, then tighten the nuts by hand as much as possible.
10. To lower the vehicle back to the ground, turn the wheel nut wrench clockwise.

    Position the wrench as shown in the illustration above and tighten the wheel nuts. Make sure the socket is seated completely over the nut. Do not stand on the wrench handle or use an extension pipe over the wrench handle. Go around the wheel, tightening every nut. Double check each nut to be sure it is tight on the wheel. After you change a wheel, have your vehicle consulted by an authorized Kia dealer to tighten the wheel nuts to their proper torque as soon as possible.



OLQ2A115015

WARNING

- To reduce the possibility of injury, only use the jack provided with your vehicle in the correct jack position. Never use any other part of the vehicle for jack support.
- To prevent vehicle movement while changing a tire, always fully apply the parking brake and block the wheel diagonally opposite the tire you are changing.
- You should block all of the wheels on the vehicle. No one should remain in the vehicle when you use the jack.
- When you install a wheel, be sure to remove any corrosion, dirt, or foreign materials present on the mounting surfaces of the wheel or the surface of the wheel hub, brake drum, or brake disc that contacts the wheel. Secure any fasteners that attach the rotor to the hub so they do not interfere with the mounting surfaces on the wheel. Installing wheels without correct metal-to-metal contact at the wheel mounting surfaces can cause the wheel nuts to loosen and the wheel to come off while your vehicle is in motion. This could result in loss of vehicle control, personal injury, or death.
- Make sure the wheel makes good contact with the hub when installed. If the contact of the mounting surface between the wheel and hub is not secure, the wheel nuts could come loose and cause the loss of a wheel. Loss of a wheel may result in loss of control of the vehicle.

- Because a vehicle can slip or roll off a jack and cause serious injury or death to you or those nearby, you should take the following safety precautions:
  - Never put any part of your body under a vehicle that is only supported by a jack.
  - Never attempt to change a tire in a traffic lane. Always move the vehicle completely off of the road onto firm, level ground away from traffic before you try to change a tire. If you cannot find a firm, level place off of the road, call a towing services company for assistance.
  - Be sure to use the jack provided with your vehicle.
  - Be sure to use the correct front and rear jacking positions for your vehicle. Never use the bumpers or any other part of the vehicle for jacking support.
  - Do not start or run the vehicle while the vehicle is on the jack.
  - Do not allow anyone to remain in the vehicle while it is on the jack.
  - Make sure any children present are in a secure place away from the road and the vehicle.

Wheel nut tightening torque

Steel wheel and aluminum alloy wheel: 79 - 94 lbf·ft (11 - 13 kgf·m)

If you have a tire gauge, remove the valve cap and check the air pressure. If the air pressure is lower than recommended, drive slowly to the nearest service station and inflate your tires to the correct pressure. If the air pressure is higher than recommended, adjust the air pressure until it is correct. Always reinstall the valve cap after you check or adjust tire pressure. If the cap is not reinstalled, air may leak from the tire. If you lose a valve cap, buy another and install it as soon as possible.

After you change a wheel, always secure the flat tire in its place and return the jack and tools to their proper storage locations.

Note that most lug nuts do not have metric threads. Be extremely careful and check the thread style before you install aftermarket lug nuts or wheels. If in doubt, have your vehicle consulted by an authorized Kia dealer.

WARNING

- If the studs are damaged, they may lose the ability to hold the wheels in place. This could lead to the loss of a wheel, and a collision resulting in serious injuries.
- Never use oil or grease on bolts or nuts because the nuts might come loose and the wheel could fall off, causing a crash.

NOTE

Reusing lug nuts

When you remove a wheel, make sure the same nuts that were removed are reinstalled. If you must replace a nut, make sure the replacement nut has metric threads and the same chamfer configuration as the original nut. If you install a nut without metric threads, it will not properly secure the wheel to the hub and will damage the stud (and you will have to replace the stud).

Important - use of compact spare tire

Your vehicle is equipped with a compact spare tire. This compact spare tire takes up less space

than a regular size tire. This tire is smaller than a conventional tire and designed for temporary use only.

- Drive carefully when you use the compact spare tire. Replace it with a proper conventional tire and rim as soon as possible.
- Do not operate your vehicle with more than one compact spare tire in use at the same time.

WARNING

Spare tire
The compact spare tire is for emergency use only. Do not operate your vehicle on the compact spare at speeds over 50 mph (80 km/h). The original tire should be repaired or replaced as soon as possible to avoid failure of the spare, possibly leading to bodily injury or death.

The compact spare tire should be inflated to 60 psi (420 kPa).

NOTE

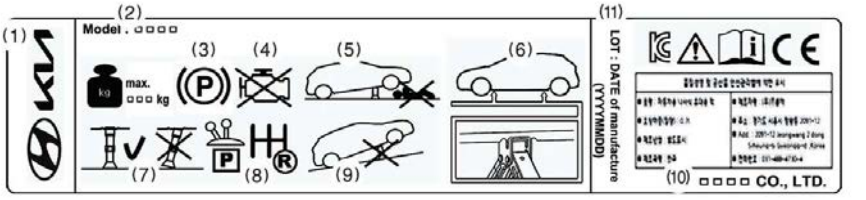
Check the inflation pressure after you install the spare tire and adjust it to the specified pressure if necessary.

When using a compact spare tire, observe the following precautions:

- Under no circumstances should you exceed 50 mph (80 km/h). A higher speed could damage the tire.
- Drive slowly enough to avoid all hazards (according to road conditions). Any road hazard, such as a pothole or debris, could seriously damage the compact spare tire.
- Continuous use could result in tire failure, loss of vehicle control, and personal injury.
- Do not exceed your vehicle's maximum load rating or the load carrying capacity shown on the sidewall of the compact spare tire.
- Avoid driving over obstacles. The compact spare tire diameter is smaller than the diameter of a conventional tire and reduces the ground clearance approximately 1 in (25 mm), which could result in damage to the vehicle.
- Do not go through an automatic car wash while using the compact spare tire.
- Do not use the compact spare tire on any other vehicle. This tire has been designed specifically 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 the compact spare tire with any other wheels. Similarly, do not use standard tires, snow tires, wheel covers, or trim rings with the compact spare wheel. This may result in damage to these items or other vehicle components.
- Do not use more than one compact spare tire at a time.
- Do not tow a trailer while the compact spare tire is installed.

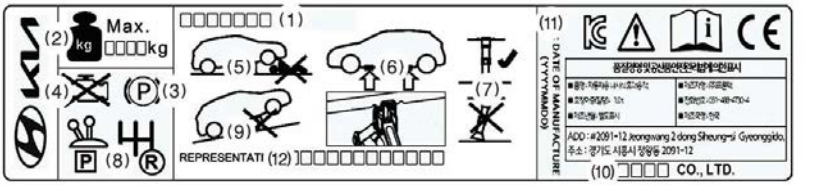
Jack label

Type A



OLQ2A115016

Type B



OLQ2A115017

Type C



OLQ2A115018

* The actual jack label in your vehicle may differ from the illustration above. Refer to the jack label in your vehicle for these specifications:

(1) Model Name
(2) Maximum allowable load
(3) When using the jack, apply 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) Use the designated jack locations under the frame
(7) When supporting the vehicle, the base plate of the jack must be vertical under the lifting point
(8) Shift to P (Park)
(9) The jack should be used on firm, level ground

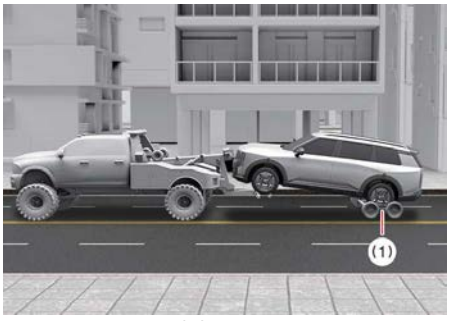
(10) Jack manufacturer
(11) Production date
(12) Representative company and address

Towing

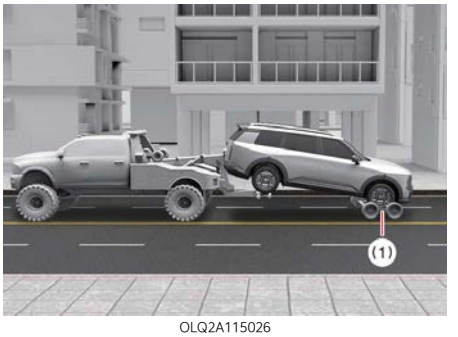
Towing service



OLQ2A115024



OLQ2A115025



OLQ2A115026

(1) Wheel dollies

If towing is necessary, have it done by authorized Kia 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 (1) or flatbed is recommended.

WARNING

Side and curtain air bag

If your vehicle is equipped with side and curtain air bag, set the vehicle to ACC position when the vehicle is being towed. The side and curtain air bag may deploy when the vehicle is in ON position and the rollover sensor detects the situation as a rollover.

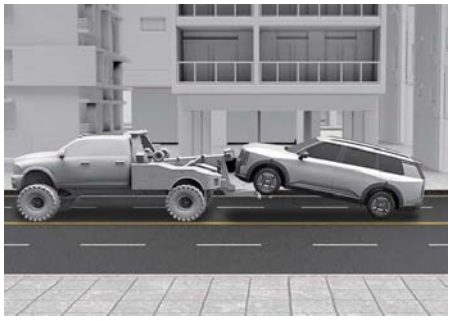
NOTE

The AWD vehicle should never be towed with the wheels on the ground. Always use wheel dollies or flatbed. If not, the transmission and the AWD system could be seriously damaged.

NOTE

- Shift to N (Neutral) to tow a vehicle with the tires on the ground. For more details, refer to "Automatic Transmission (AT)" on page 369.
- If the Electronic Parking Brake (EPB) does not release normally, take your vehicle to an authorized Kia dealer by loading the vehicle on a flatbed tow truck and have the system checked.

When flatbed is unavailable



OLQ2A115027

2-wheel drive vehicle can be towed with the opposite tires on the ground (without dollies) and parking brake released before turning off the vehicle.
If you must tow the vehicle using only two wheels, lift the driven wheels off the ground and tow the vehicle.

NOTE

- If any of the loaded wheels or suspension components are damaged or the vehicle is being towed with the driven wheels on the ground, use a towing dolly under the driven wheels.
- Do not tow with sling-type equipment. Use wheel lift or flatbed equipment.



OLQ2A115028

- Do not tow the vehicle backwards with the driven wheels on the ground as this may cause damage to the vehicle.



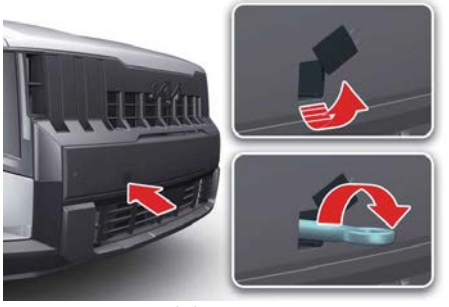
OLQ2A115029

Precautions for using towing hooks for short-distance movement before towing the vehicle

When moving your vehicle for loading onto a towing truck or repositioning it for towing, drive at a speed of 3 mph (5 km/h) or less over a distance of 32 ft (10 m) or less.

In this situation, shift to N (Neutral) and disengage the parking brake. When the transmission or parking brake is not functioning, ensure that all wheels of your vehicle are elevated using a tow dolly or tire skates.

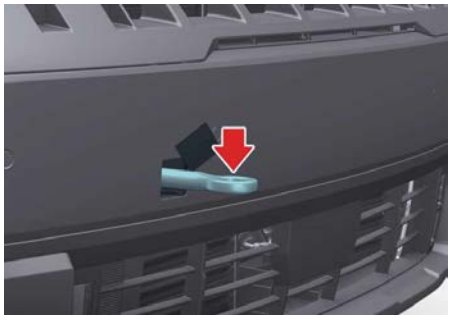
Removable towing hook (if equipped)



OLQ2A115019_2

1. Open the liftgate, and take out the towing hook from the tool case.
2. Remove the hole cover pressing 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

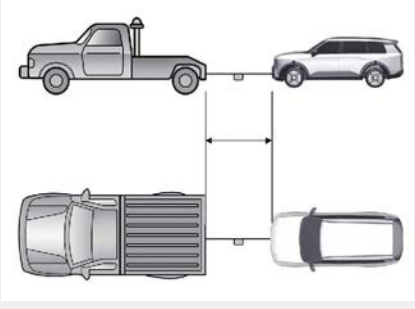


OLQ2A115020

WARNING

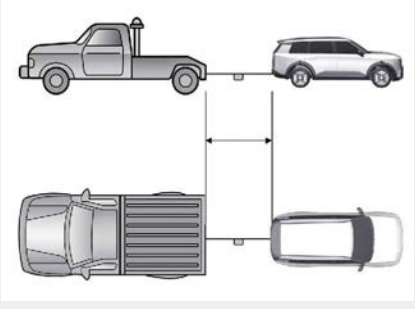
- Use extreme caution when towing the vehicle. A driver must be in the vehicle to steer it and operate the brakes.
- Avoid sudden starts or erratic driving maneuvers which would place excessive stress on the emergency towing hook and towing cable or chain. The hook and towing cable or chain may break and cause serious injury or damage.
- If the disabled vehicle is unable to be moved, do not forcibly continue the towing. We recommend that you contact an authorized Kia dealer or a commercial tow truck service for assistance.
- Tow the vehicle as straight ahead as possible.
- Keep away from the vehicle during towing.
- Use a towing strap less than 16 ft (5 m) long. Attach a white or red cloth (about 12 inches (30 cm) wide) in the middle of the strap for easy visibility.

Front



OLQ2A115022

Rear (if equipped)



OLQ2A115023

- Drive carefully so that the towing strap is not loosened during towing.
- The driver must be in the vehicle for steering and braking operations when the vehicle is towed and passengers other than the driver must not be allowed to be on board.

NOTE

- Attach a towing strap to the tow hook.
- Using a portion of the vehicle other than the tow hooks for towing may damage the body of your vehicle.
- Use only a cable or chain specifically intended for use in towing vehicles. Securely fasten the cable or chain to the towing hook provided.
- 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.

NOTE

- Towing in this manner may be done only on hard-surfaced roads for a short distance and at low speed. Also, the wheels, axles, power train, steering and brakes must all be in good condition.
- Do not use the tow hooks to pull a vehicle out of mud, sand or other conditions from which the vehicle cannot be driven out under its own power.
- Avoid towing a vehicle heavier than the vehicle doing the towing.
- The drivers of both vehicles should communicate with each other frequently.
- Before emergency towing, check if the hook is not broken or damaged.
- Fasten the towing cable or chain securely to the hook.
- Do not jerk the hook. Apply it steadily and with even force.
- To avoid damaging the hook, do not pull from the side or at a vertical angle. Always pull straight ahead.

Emergency towing precautions

- Start the vehicle to ON position so the steering wheel isn't locked.
- Shift to N (Neutral).
- Release the parking brake.
- Press the brake pedal with more force than normal since you will have reduced brake performance.
- More steering effort will be required because the power steering system will be disabled.
- If you are driving down a long hill, the brakes may overheat and brake performance will be reduced. Stop often and let the brakes cool off.
- The vehicle should be towed at a speed of 15 mph (25 km/h) or less within the distance of 12 miles (20 km).
- To avoid serious damage to the transmission, limit the vehicle speed to 10 mph (15 km/h) and drive less than 1 mph (1.5 km) when towing.

NOTE

Transmission

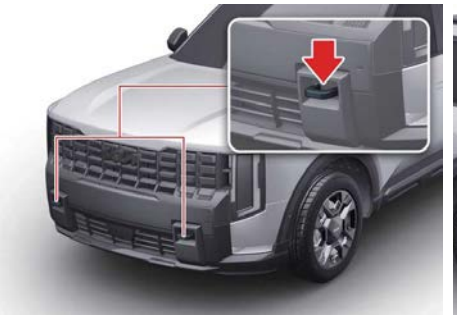
- If the vehicle is being towed with all four wheels on the ground, it can be towed only from the front. Be sure that the vehicle is in N (Neutral). Be sure the steering is unlocked by placing the vehicle in ACC position. A driver must be in the towed vehicle to operate the steering and brakes.

- Before towing, check the transmission for fluid leaks under your vehicle. If the transmission fluid is leaking, flatbed equipment or a towing dolly must be used.

Integrated recovery hook (if equipped)

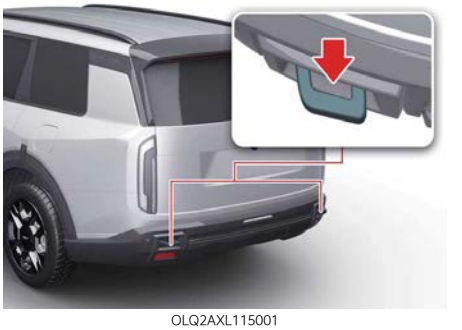
If equipped, recovery hooks are located at the front and rear of the vehicle. Use them when the vehicle is stuck off-road and needs to be pulled to a safe location to continue driving.

Front



OLQ2A115021

Rear



OLQ2AXL115001

Integrated recovery hook precautions

- Ensure all attaching points are secure and capable of withstanding the applied load.
- Do not use chains, cables, or tow straps with metal hook ends.
- Use only recovery straps with a minimum breaking strength two to three times the gross vehicle weight of the stuck vehicle.
- Make sure the recovery strap is in good condition and free of visible cuts, tears, or other damage.
- Place a damper device (such as a tarp, heavy blanket, or piece of carpet) over the recovery strap to help absorb energy if the strap breaks.

⚠ WARNING

- Recovery hooks should only be used by individuals familiar with proper vehicle recovery safety practices. Improper use may cause hook failure or separation from the vehicle, resulting in serious injury or death.
- Always remove the slack from the recovery strap slowly before pulling. Sudden loads can cause the recovery hooks to break or the strap to fail, which may result in serious injury or death.
- Never connect two straps with a clevis pin. If a strap breaks, the pin can become a projectile and cause serious injury or death.
- Never pull on the recovery hooks from the side. The hooks may break, causing injury to you or others. Always pull the vehicle straight from the front when using the recovery hooks.

NOTE

Do not apply a load to the recovery hooks that exceeds the vehicle's gross vehicle weight rating.

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Maintenance

Engine compartment

Smartstream G2.5 T-GDi (Gasoline)



OLQ2A025005

* The actual engine compartment in your Kia may differ from the illustration.

(1) Windshield washer fluid reservoir
(2) Engine coolant reservoir
(3) Engine oil dipstick
(4) Engine oil filler cap
(5) Brake fluid reservoir
(6) Negative 12V battery terminal
(7) Positive 12V battery terminal
(8) Air cleaner
(9) Fuse box

Maintenance services

Take the utmost care to prevent damage to your vehicle and injury when performing any maintenance or inspection procedures.

If you have any doubts concerning the inspection or maintenance of your vehicle, have an authorized Kia dealer perform this work.
An authorized Kia dealer has factory-trained technicians and genuine Kia parts to service your vehicle properly. For expert advice and quality service, see an authorized Kia dealer.
Inadequate, incomplete, or insufficient service may result in operational problems with your vehicle that could lead to vehicle damage, an accident, personal injury or death.

Owner's responsibility

NOTE

Maintenance Service and Record Retention are your responsibility as the owner.
You should retain documents showing that proper maintenance has been performed on your vehicle according to 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.
Your Warranty and Consumer Information manual contains detailed warranty information. Repairs and adjustments required as a result of improper maintenance or a lack of required maintenance are not covered.

Have your vehicle maintained and repaired by an authorized Kia dealer. Authorized Kia dealers meet Kia's high service quality standards and receive technical support from Kia to provide you with a high level of satisfaction.

Owner maintenance precautions

Improper or incomplete service may result in problems. This section provides instructions only for maintenance items that are easy to perform.
Several procedures can only be performed by an authorized Kia dealer with special tools.

WARNING

Maintenance work
Do not wear jewelry or loose clothing while working under the hood of your vehicle running. These items can become entangled in moving parts. If you must maintain the vehicle running while working under the hood, be sure to remove all jewelry (especially rings, bracelets, watches, and necklaces) and all neckties, scarves, and similar loose clothing before getting near the cooling fans.

WARNING

Touching metal parts
Do not touch metal parts (including strut bars) while the vehicle is operating or hot. Doing so could result in serious bodily injury. Turn the vehicle off and wait until the metal parts cool down before you perform maintenance work on the vehicle.

NOTE

Improper owner maintenance during the warranty period may affect warranty coverage. For details, read the separate Warranty and Consumer Information manual provided with the vehicle. If you're unsure about any servicing or maintenance procedure, have it done by an authorized Kia dealer.

NOTE

NHTSA Safety Corrosion Alert

The National Highway Traffic Safety Administration (NHTSA) has issued a general warning to all vehicle owners of all brands regarding the risks associated with vehicle underbody corrosion. After your initial purchase, take the following steps to prevent unsafe corrosion damage to your vehicle:

- Wash the underbody of your vehicle regularly during the winter and whenever your vehicle has been exposed to salts or chemicals.
- Wash the underbody thoroughly at the end of winter.
- Have your vehicle inspected for corrosion annually by a professional service technician or at a governmental inspection station.
- Have your vehicle inspected immediately if you see sighs of corrosion flaking or scaling, or if you become aware of a change in vehicle performance (such as soft or spongy brakes, fluids leaking, impairment of directional control, suspension noises, or rattling metal straps).
- NHTSA further advises that after a vehicle is 7 years old, it is essential that you take these indicated maintenance steps to protect yourself from unsafe corrosion conditions.

Owner maintenance

The following lists are vehicle checks and inspections that should be performed by the owner or an authorized Kia dealer at the indicated frequencies to help ensure safe, dependable operation of your vehicle.

Bring any adverse conditions to the attention of your dealer as soon as possible.
These owner maintenance checks are generally not covered by your warranty, and you may be charged for labor, parts, and lubricants used.

Owner maintenance schedule

When you stop for fuel:

- Check the coolant level in coolant reservoir.
- Check the windshield washer fluid level.
- Check for low tire pressure or underinflated tires.
- Check to make sure that the front of the radiator and condenser are clean and not blocked with leaves, dirt, insects, and so on. If any of these parts are extremely dirty, or if you are not sure of their condition, take your vehicle to an authorized Kia dealer.

WARNING

Hot coolant



Be careful when checking your coolant level when the vehicle is hot. Scalding hot coolant and steam may blow out under pressure.

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 any increased steering effort, looseness in the steering wheel, or change in its straight-ahead position.
- Notice whether your vehicle constantly turns slightly, or if it "pulls" or drifts to one side, when traveling on a smooth, level road.
- When stopping, listen for unusual sounds and check for drifting to one side, increased brake pedal travel, or difficulty engaging the brake pedal.
- If you notice any slipping or changes in the operation of your transmission, take your vehicle to an authorized Kia dealer.
- Check the P (Park) function.
- Check the parking brake.
- Check for fluid leaks under your vehicle (water dripping from the air conditioning system during or after use is normal).

At least monthly:

- Check the coolant level in the coolant reservoir.

- Check the operation of all exterior lights, including the brake lights, turn signal lights, and hazard lights.
- Check the inflation pressures of all tires, including the spare. Also check for worn tires, uneven wear, or damage.
- Check for loose wheel lug nuts.

At least once every 6 months:

- Check the radiator, heater, and air conditioning hoses for leaks or damage.
- Check the windshield washer spray and wiper operation. Clean the wiper blades with a clean cloth dampened with washer fluid.
- Check the headlamp alignment.
- Check the muffler, exhaust pipes, shields, and clamps.
- Check the lap and shoulder bands of the seat belt for wear and function.

At least once a year:

- Clean the body and door drain holes.
- Lubricate the door hinges and check the hood hinges.
- Lubricate the door, hood locks, and latches.
- Lubricate the door rubber weather strips.
- Check the air conditioning system.
- Inspect and lubricate the transmission linkage and controls.
- Clean the 12V battery and terminals.
- Check the brake fluid level.
- Visually inspect the steering, suspension, and chassis components for damaged, loose, or missing parts or signs of wear.

Scheduled maintenance service

Scheduled maintenance service precautions

Follow the Normal Maintenance Schedule if the vehicle is not usually operated under any of the following conditions. Follow the Maintenance Under Severe Usage Conditions if any of the following conditions apply:

A: You repeatedly drive short distances of less than 5 miles (8 km) in normal temperatures, or less than 10 miles (16 km) in freezing temperatures.

B: You idle the engine extensively or drive at low speeds for long distances.

C: You drive on rough, dusty, muddy, unpaved, graveled, or salt-treated roads.

D: You drive in areas that use salt or other corrosive materials, or in very cold weather.

E: You drive in extremely dusty conditions.

F: You drive in areas with heavy traffic.

G: You frequently drive on uphill, downhill, or mountain roads.

H: You use your vehicle for towing or camping and drive with cargo loaded on the roof.

I: You drive your vehicle as a patrol car, taxi, or for other commercial purposes.

J: You frequently drive at high speeds or rapidly accelerate and decelerate.

K: You frequently drive in stop-and-go traffic.

If you operate your vehicle under these conditions, you should inspect your vehicle, replace parts, or refill fluids more frequently, or follow the Maintenance Under Severe Usage Conditions schedule. Follow the prescribed maintenance intervals for the periods of time or distances shown in the chart.

NOTE

Your vehicle may be equipped with an Oil Life Management System that predicts engine oil life based on your driving history and alerts you to change the engine oil.

- If engine oil deteriorates more quickly depending on the severity of your driving, the remaining oil life alert appears on the instrument cluster before the normal engine oil replacement interval. Have the engine oil and filter changed by an authorized Kia dealer.
- The Oil Life Management System works when you use the recommended engine oil. If you do not use the recommended engine oil, replace the oil according to the Maintenance Under Severe Usage Conditions schedule. Also, check your engine oil level regularly, as this system assumes that you are filling the engine oil normally.
- Always reset the remaining engine oil life whenever the engine oil is changed. Otherwise, the Oil Life Management System will not function correctly.
- If there is no alert until the maximum maintenance interval, have your vehicle inspected by an authorized Kia dealer.

TIP

After 10 years or 100,000 miles (150,000 km), we recommend using the Maintenance Under Severe Usage Conditions schedule.

Normal maintenance schedule

You must perform the following maintenance services to ensure good emission control and per-

formance. Keep receipts for all vehicle services to protect your warranty. Where both the mileage and date are shown, the frequency of service you need is based on whichever occurs first.

I: Inspect and, if necessary, adjust, correct, clean, or replace.
R: Replace or change.

Number of months or driving distance, whichever comes first													
Months		**12**	**24**	**36**	**48**	**60**	**72**	**84**	**96**	**108**	**120**	**132**	**144**
Miles×1,000		**8**	**16**	**24**	**32**	**40**	**48**	**56**	**64**	**72**	**80**	**88**	**96**
Km×1,000		**13**	**26**	**39**	**52**	**65**	**78**	**91**	**104**	**117**	**130**	**143**	**156**
Tire rotation		Rotate every 8,000 miles (13,000 km) or 12 months											
Fuel additives [1]		Add every 8,000 miles (13,000 km) or 12 months											
Engine oil and engine oil filter [2]	Smartstream G2.5 T-GDi	R	R	R	R	R	R	R	R	R	R	R	R
Climate control air filter		I	R	I	R	I	R	I	R	I	R	I	R
Air cleaner filter (Engine)		I	I	R	I	I	R	I	I	R	I	I	R
Brake fluid		Inspect every 8,000 miles (13,000 km) or 12 months Replace every 48,000 miles (78,000 km) or 48 months											
Spark plugs	Smartstream G2.5 T-GDi	Replace every 48,000 miles (78,000 km)											
Coolant (Engine) [3]		At first, replace at 120,000 miles (195,000 km) or 120 months After that, replace every 24,000 miles (39,000 km) or 24 months											
Air conditioner refrigerant		I	I	I	I	I	I	I	I	I	I	I	I
Air conditioner compressor													
12V battery condition													
Vacuum hoses													
Brake discs and pads													
Brake lines, hoses, and connections													
Suspension ball joints													
Steering gear rack, linkage, and boots													
Exhaust system													
Cooling system													
Intercooler in and out hose, air intake hose	Smartstream G2.5 T-GDi	I	-	I	-	I	-	I	-	I	-	I	-
Drive shaft and boots		-	I	-	I	-	I	-	I	-	I	-	I
Propeller shaft (AWD)													
Fuel tank and fuel cap													
Fuel tank air filter													
Fuel lines, hoses, and connections													

Number of months or driving distance, whichever comes first												
Months		**12**	**24**	**36**	**48**	**60**	**72**	**84**	**96**	**108**	**120**	**132**	**144**
Miles×1,000		**8**	**16**	**24**	**32**	**40**	**48**	**56**	**64**	**72**	**80**	**88**	**96**
Km×1,000		**13**	**26**	**39**	**52**	**65**	**78**	**91**	**104**	**117**	**130**	**143**	**156**
Drive belts (Engine) [4]		-	-	-	-	-	I	I	I	I	I	I	I
Differential oil (rear) (AWD) [5]		Inspect every 40,000 miles (65,000 km) or 48 months											
Transfer case oil (AWD) [6]													
Automatic transmission (AT) fluid *	Smartstream G2.5 T-GDi	No service required											

1. **Fuel additives**
   If TOP TIER Detergent Gasoline is not available, one bottle of additive is recommended. Additives and information about how to use them are available from an authorized Kia dealer. Do not mix other additives.
2. **Engine oil and engine oil filter**
   A Check the engine oil level on a regular basis, as it is normal for the vehicle to consume engine oil while you drive. The engine oil change interval for normal operating conditions is based on the use of the recommended engine oil specification. If you do not use the recommended engine oil specification, replace the engine oil according to the Maintenance Under Severe Usage Conditions schedule.
   Never add any additives to the engine oil. Engine oil additives can change the properties of engine oil and may cause serious engine failure.
3. **Coolant (Engine)**
   When adding coolant, only use deionized water or soft water for your vehicle. Never mix hard water into the coolant filled at the factory. An improper coolant mixture can result in serious malfunction or engine damage.
4. **Drive belts (Engine)**
   Inspect the alternator, water pump, and air conditioner drive belt and, if necessary, repair or replace them. Inspect the drive belt tensioner, idler, and alternator pulley and, if necessary, repair or replace them.
5. **Differential oil (rear) (AWD)**
   If your vehicle has been in a flooded area or submerged in water, change the fluids as a precaution.
6. **Transfer case oil (AWD)**
   If your vehicle has been in a flooded area or submerged in water, change the fluids as a precaution.

* Transmission fluid

If your vehicle has been in a flooded area or submerged in water, change the fluids as a precaution.

Fuel filter (Gasoline engine)

The fuel filter does not normally require maintenance, but periodic inspection is recommended during scheduled maintenance to look for conditions caused by poor fuel quality.
If there are safety risks, such as fuel flow restriction, surging, loss of power, or hard starting problems, replace the fuel filter immediately regardless of the maintenance schedule. Consult an authorized Kia dealer for details.

Maintenance under severe usage conditions

I: Inspect and, if necessary, adjust, correct, clean or replace.

R: Replace or change.

Maintenance item		Maintenance operation	Maintenance intervals	Driving condition
Engine oil and filter	Smartstream G2.5 T-GDi	R	Every 5,000 miles (8,000 km) or 6 months	D, H, I
Spark plugs	Smartstream G2.5 T-GDi	R	More frequently	A, B, F, G, H, I, K
Air cleaner filter		R	More frequently	C, E
Climate control air filter		R	More frequently	C, E, G
Automatic transmission (AT) fluid	Smartstream G2.5 T-GDi	R	Every 56,000 miles (91,000 km)	A, C, F, G, H, I, J, K
Differential oil (rear) (AWD)		R	Every 72,000 miles (117,000 km)	C, E, G, H, I, J
Transfer case oil (AWD)		R	Every 72,000 miles (117,000 km)	C, E, G, H, I, J
Steering gear rack, linkage, and boots		I	More frequently	C, D, E, F, G, H, I
Suspension ball joints		I	More frequently	C, D, E, G, H, I
Brake discs, pads and calipers		I	More frequently	C, D, E, G, H, I, J, K
Drive shaft and boots		I	More frequently	C, D, E, F, G, H, I, J
Propeller shaft (AWD)		I	More frequently	C, D, E, F, G, H, I, J

Severe driving conditions

A: You repeatedly drive short distances of less than 5 miles (8 km) in normal temperatures, or less than 10 miles (16 km) in freezing temperatures.
B: You idle the engine extensively or drive at low speeds for long distances.
C: You drive on rough, dusty, muddy, unpaved, graveled, or salt-treated roads.
D: You drive in areas that use salt or other corrosive materials, or in very cold weather.
E: You drive in extremely dusty conditions.
F: You drive in areas with heavy traffic.
G: You frequently drive on uphill, downhill, or mountain roads.
H: You use your vehicle for towing or camping and drive with cargo loaded on the roof.
I: You drive your vehicle as a patrol car, taxi, or for other commercial purposes.
J: You frequently drive at high speeds or rapidly accelerate and decelerate.
K: You frequently drive in stop-and-go traffic.

Explanation of scheduled maintenance items

Engine oil and filter

Change the engine oil and filter at the intervals specified in the maintenance schedule. If you drive your vehicle 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 them if necessary. Periodically check the drive belts for proper tension, and adjust them if necessary.

⚠ CAUTION

When you inspect the drive belt, make sure the vehicle is in OFF or ACC position.

Fuel filter (Gasoline engine)

The fuel filter is considered maintenance-free, but periodic inspection is recommended depending on the quality of the fuel used.
If there are safety risks, such as fuel flow restriction, surging, loss of power, hard starting problems, and so on, replace the fuel filter immediately regardless of the maintenance schedule. Consult an authorized Kia dealer for details.

Fuel lines, fuel hoses, and connections

Check the fuel lines, fuel hoses, and connections for leakage and damage. Have the fuel lines, fuel hoses, and connections replaced by an authorized Kia dealer.

Fuel tank and fuel cap

Inspect the fuel tank and fuel cap at the intervals specified in the maintenance schedule. Make sure to correctly replace a fuel tank or fuel cap with a new one.

Vacuum crankcase ventilation hoses

Inspect the surface of hoses for evidence of heat or mechanical damage. Hard and brittle rubber, cracking, tears, cuts, abrasions, and excessive swelling indicate deterioration. Pay particular attention to the hose surfaces nearest to high heat sources, such as the exhaust manifold.
Inspect the hose routing to ensure that the hoses do not contact any heat source, sharp edges, or moving components that might cause heat damage or mechanical wear. Inspect all hose connections, such as clamps and couplings, to make sure they are secure and that no leaks are present. Replace hoses immediately if there is any evidence of deterioration or damage.

Air cleaner filter

Have the Genuine Kia air cleaner filter replaced by an authorized Kia dealer.

Spark plugs (Gasoline engine)

Install new spark plugs for the correct heat range.
To prevent contamination of the spark plug insulator when assembling parts, use a soft cloth to wipe the inside and outside of the boot bottom of the ignition coil and the spark plug insulator.

CAUTION

Do not disconnect and inspect spark plugs when the engine is hot. You may burn yourself.

Cooling system

Check the cooling system components, such as the radiator, coolant reservoir, hoses, and connections for leakage and damage. Replace any damaged parts.

Coolant

Change the coolant at the intervals specified in the maintenance schedule.

Automatic transmission (AT) fluid

Do not check the automatic transmission fluid under normal usage conditions. Have the automatic transmission fluid changed by an authorized Kia dealer.

NOTE

The use of a non-specified fluid could result in transmission malfunction and failure. Use only the specified automatic transmission fluid. (Refer to "Recommended lubricants and capacities" on page 30.)

TIP

The automatic transmission fluid color is basically red. As the vehicle is driven, the automatic transmission fluid will begin to look darker. This is normal and does not mean that you should replace the fluid based only on the change in color.

Brake hoses and lines

Visually check for proper installation, chafing, cracks, deterioration, and any leakage. Replace any deteriorated or damaged parts immediately.

Parking brake

Inspect the parking brake system, including the parking brake switch and cables.

Brake fluid

Check the brake fluid level in the brake fluid reservoir. The level should be between the MIN and MAX marks on the side of the reservoir. Use only hydraulic brake fluid conforming to DOT 4 specifications.

Exhaust pipe and muffler

Visually inspect the exhaust pipes, muffler, and hangers for cracks, deterioration, or damage. Start the engine and listen carefully for any exhaust gas leakage. Tighten connections or replace parts as necessary.

Brake discs, pads, and calipers

Check the pads for excessive wear, discs for run out and wear, and calipers for fluid leakage.

Suspension mounting bolts

Check the suspension connections for looseness or damage. Retighten to the specified torque.

Steering gear box, linkage, boots, and lower arm ball joint

With the vehicle is stopped and is in OFF state, check for excessive free-play in the steering wheel.
Check the linkage for bends or damage. Check the dust boots and ball joints for deterioration, cracks, or damage. Replace any damaged parts.

Drive shafts and boots

Check the drive shafts, boots, and clamps for cracks, deterioration, or damage. Replace any damaged parts and, if necessary, repack the grease.

Air conditioning refrigerant

Check the air conditioning lines and connections for leakage and damage.

Propeller shaft (if equipped)

Check the propeller shaft, boots, clamps, rubber coupling, and center bearing rubber for cracks, deterioration, or damage. Replace any damaged parts and, if necessary, repack the grease.

Checking fluid levels

When you check the engine oil, coolant, brake fluid, and washer fluid, always be sure to clean the area around any filler plug, drain plug, or dipstick before checking or draining any lubricant or fluid. This is especially important in dusty or sandy areas, and when you use the vehicle on unpaved roads. Cleaning the plug and dipstick areas prevents dirt and grit from entering and damaging the vehicle and other mechanisms.

Engine oil (Gasoline)

Checking the engine oil level

Engine oil lubricates, cools, and operates various hydraulic components in the engine. Engine oil consumption while driving is normal, so it is necessary to check and refill the engine oil regularly. Check and refill the oil according to the recommended maintenance schedule to prevent deterioration of the oil performance.

Check the engine oil according to the following procedure:

Smartstream G2.5 T-GDi



OLQ2A125001

1. Be sure the vehicle is on level ground.
2. Start the engine and allow it to reach the normal operating temperature.
3. Turn off the engine, remove the oil filler cap, and pull out the dipstick. Wait for 15 minutes for the oil to return to the oil pan.
4. Wipe the dipstick clean and fully reinsert it.
5. Pull the dipstick out again and check to see whether the oil level is between the F and L line. If it is below the L line, add enough oil to bring it to the F line.

CAUTION

Radiator hose

Be very careful not to touch the radiator hose when checking or adding engine oil, as it may be hot enough to burn you.

NOTE

When you wipe the oil level gauge, use a clean cloth. An oil level gauge with debris can damage the engine.

Smartstream G2.5 T-GDi



OLQ2A125002

Use a funnel to help prevent you from spilling oil on the engine components.
Use only the specified engine oil. (Refer to "Recommended lubricants and capacities" on page 30.)

- Do not spill engine oil when adding or changing engine oil. Wipe off spilled oil immediately.
- Engine oil consumption may increase while you break in your new vehicle. It will stabilize after you drive 4,000 miles (6,000 km).
- Engine oil consumption can be affected by driving habits, climate conditions, traffic conditions, oil quality, and so on. Therefore, it is recommended that you inspect the engine oil level regularly and refill the oil, if necessary.

Changing the engine oil and filter

The lubrication, rust prevention, cooling, and cleaning effect of the engine oil gradually degrades during its use. Have the engine oil and filter changed by an authorized Kia dealer according to the Engine Oil Life Management System instructions or the maintenance schedule.

- If you exceed the maintenance schedule to replace the engine oil, the engine oil's performance may deteriorate, which may affect the engine's condition. 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 you do not use the recommended engine oil and filter, replace them according to the Maintenance Under Severe Usage Conditions schedule.
- 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 the engine oil regularly.

WARNING

Used engine oil
Used engine oil may cause skin irritation or cancer 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 engine oil. Keep used engine oil out of reach of children.

NOTE

- When the oil pressure is low due to insufficient engine oil, the engine oil pressure warning light ( ) appears.

  In addition, the enhanced engine protection system (which limits the engine's power) activates, and the malfunction indicator light ( ) appears when you drive the vehicle in this state continuously.
- When the engine oil pressure is restored, the warning light and the enhanced engine protection system turn off after you restart the engine.

CAUTION

The engine oil is very hot immediately after you drive the vehicle and can cause burns during replacement. Replace the engine oil after the engine oil has cooled down.

NOTE

Never use any additives in the engine oil. Additives can change the engine oil's properties and cause engine failure.

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 level at least once a year (at the beginning of the winter season), and before traveling to a colder climate.

NOTE

- 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 without engine coolant. This may cause water pump failure, engine seizure, and so on.

Checking the coolant level

WARNING

Removing the engine coolant reservoir cap



Never attempt to remove the engine coolant reservoir cap while the engine is operating or hot. Doing so might damage the cooling system and engine. Also, hot coolant or steam could cause serious personal injury.

Turn off the engine and wait until it cools down. Use extreme care when removing the 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 that all of the pressure has been released, press down on the cap using a thick towel, and continue turning it counterclockwise to remove it.

Even if the engine is not operating, do not remove the 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.

CAUTION



The electric motor (cooling fan) is controlled by the engine coolant temperature, refrigerant pressure, and vehicle speed. The fan sometimes operates even when the engine is not running. To avoid injury from rotating cooling fan blades, use extreme caution when working near the blades. As the engine coolant temperature decreases, the electric motor automatically shuts off. This is normal operation.
The electric motor (cooling fan) may operate until you disconnect the negative battery cable.

Check the conditions and connections of all cooling system hoses and heater hoses. Replace any swollen or deteriorated hoses.
The coolant level should be filled between the MAX and MIN (F and L) marks on the side of the coolant reservoir when the engine is cool.
If the coolant level is low, add enough distilled (deionized) or soft water to bring the level to MAX (F). Do not overfill.
If your vehicle requires frequent coolant refills, have the system inspected by an authorized Kia dealer.

NOTE

Make sure to properly close the coolant cap after refilling the coolant. Otherwise, the engine could overheat while you drive.

1. Make sure the engine coolant reservoir cap label is on straight.



OLQ2A125029_2

2. Make sure that the tiny protrusions inside the coolant cap are securely interlocked.



OLQ2A125003

Recommended engine coolant

- When adding coolant, use only deionized water or soft water for your vehicle. Never mix hard water into the coolant filled at the factory. An improper coolant mixture can result in serious malfunction or engine damage.
- The engine in your vehicle has aluminum engine parts and must be protected by an ethylene-glycol with phosphate-based coolant to prevent corrosion and freezing.
- Do not use alcohol or methanol coolant, or mix them with the specified coolant.
- Do not use a solution that contains more than 60% antifreeze or less than 35% antifreeze, which would reduce the effectiveness of the solution.

For mixture percentage, refer to the following table:

Ambient Temperature	Mixture Percentage (volume)	
	Antifreeze	Water
5°F (-15°C)	35	65
-13°F (-25°C)	40	60
-31°F (-35°C)	50	50
-49°F (-45°C)	60	40

WARNING

Engine coolant reservoir cap



Do not remove the engine coolant reservoir cap when the engine and radiator are hot. Scalding hot coolant and steam may blow out under pressure, causing serious injury.

Changing the coolant

Have the coolant replaced by an authorized Kia dealer.

NOTE

To prevent the coolant from overflowing into engine parts (such as the alternator), place a thick cloth around the radiator cap before refilling the coolant.

NOTE

Coolant

- Do not use engine coolant or antifreeze in the washer fluid reservoir.
- Radiator coolant can severely obscure visibility when sprayed on the windshield. This may cause a loss of vehicle control or damage the paint and body trim.

Brake fluid

Checking the brake fluid level

Check the brake fluid level in the reservoir periodically. The fluid level should be between the MAX and MIN marks on the side of the reservoir.



OLQ2A125027

1. To prevent brake fluid contamination, clean the area around the reservoir cap thoroughly before removing the cap and adding brake fluid.
2. Periodically check that the fluid level in the brake fluid reservoir is between MAX and MIN. The level falls as you accumulate mileage. This is a normal condition associated with wear on the brake linings.

   If the fluid level is excessively low, have the system inspected by an authorized Kia dealer.

Only use hydraulic brake fluid that conforms to DOT 4 specifications. (Refer to "Recommended lubricants and capacities" on page 30.)
Never mix different types of fluid.

TIP

Loss of brake fluid

If the brake system requires you to add fluid frequently, have the system inspected by an authorized Kia dealer.

WARNING

Brake fluid

When changing and adding brake fluid, handle it carefully. Do not let it come into contact with your eyes. If brake fluid comes into 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.

NOTE

Do not allow brake fluid to come into contact with the vehicle's body paint, as it will damage the paint. Never use brake fluid that has been exposed to open air for an extended period of time, as its quality cannot be guaranteed. Properly dispose of it instead. Do not put the wrong kind of fluid into the brake fluid reservoir. A few drops of mineral-based oil (such as engine oil) in your brake system can damage the brake system parts.

Washer fluid

Checking the washer fluid level

The reservoir is translucent so that you can check the level with a quick visual inspection.



OLQ2A125004

Check the fluid level in the washer fluid reservoir and, if necessary, add fluid. You may use plain water if washer fluid is not available. However, you should use washer solvent with antifreeze characteristics in cold climates to prevent freezing.

⚠ WARNING

Washer fluid

- Do not use radiator coolant or antifreeze in the washer fluid reservoir.
- Coolant can severely obscure visibility when sprayed on the windshield. It may cause a loss of vehicle control or damage to the paint and body trim.
- Windshield washer fluid agents contain some amounts of alcohol and can be flammable under certain circumstances. Do not allow sparks or flame to come into contact with the washer fluid or the washer fluid reservoir. This could damage your vehicle or injure the occupants.
- Windshield washer fluid is poisonous to humans and animals. Do not drink and avoid coming into contact with windshield washer fluid. Serious injury or death could occur.

Air cleaner

Replacing the air cleaner filter

Replace the air cleaner filter when necessary, and do not wash it.



OLQ2A125005

You can clean the filter when inspecting the air cleaner compartment. Use compressed air to clean the filter.

1. Pull up the lever on the air cleaner cover and release the lock.



OLQ2A125006

2. Pull up the air cleaner cover and open it.
3. Rotate the fixed lever on the filter and loosen the lock.



OLQ2A125007

4. Replace the air cleaner filter.
5. Reassemble the air cleaner filter parts and cover in the reverse order of disassembly.

Replace the filter according to the Maintenance Schedule.

If you drive your vehicle in extremely dusty or sandy areas, replace the filter more often than the usual recommended intervals. (Refer to "Maintenance under severe usage conditions" on page 700.)

NOTE

- Do not drive with the air cleaner filter removed. This results in excessive engine wear.
- When removing the air cleaner filter, make sure that dust or dirt does not enter the air intake, as this can cause damage.
- Use genuine replacement parts from an authorized Kia dealer.

Climate control air filter

Inspecting the climate control air filter

Replace the climate control air filter according to the maintenance schedule. If you drive your vehicle in severely air-polluted locations or on dusty rough roads for a long period of time, have the filter inspected more frequently and replaced earlier. Perform the following procedure to replace the climate control air filter, and be careful to avoid damaging other components.

1. Open the glove box and remove the glove box damper from the stopper on the right side.



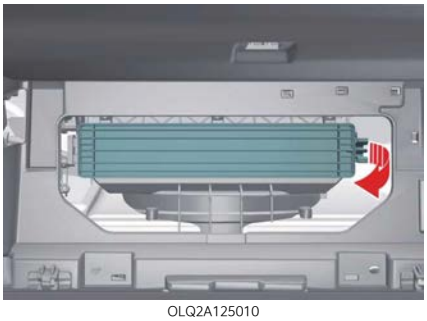
OLQ2A125008

2. With the glove box open, press both sides of the glove box and pull it downward to remove it.



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3. Remove the climate control air filter cover by pulling out right side of the cover.



OLQ2A125010

4. Replace the climate control air filter.



KIAPB031

5. Reassemble the climate control air filter parts and cover in the reverse order of disassembly.

NOTE

When you replace the climate control air filter, be sure to install it properly. Otherwise, you may hear noise from the system and notice a reduction in the filter's effectiveness.

Wiper blades

Blade inspection

Contamination of either the windshield or the wiper blades with foreign substances 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 windshield and the blades with a good cleaner or mild detergent, and rinse thoroughly with clean water.

NOTE

To prevent damage to the wiper blades, do not use gasoline, kerosene, paint thinner, or other solvents on or near them.

TIP

Commercial hot waxes applied by automatic car washes have been known to make the windshield difficult to clean.

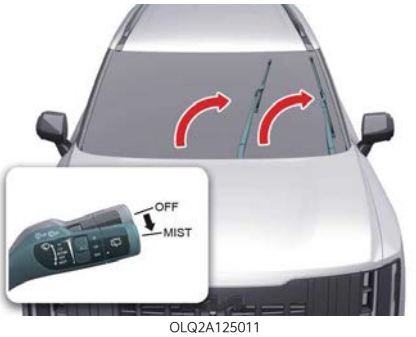
Blade replacement

When the wipers no longer clean adequately, the blades may be worn or cracked, and require replacement.

WARNING

- To prevent damage to the wiper arms or other components, do not attempt to move the wipers manually.
- The use of a non-specified wiper blade could result in wiper malfunction and failure.

Front wiper blade replacement



OLQ2A125011

For your convenience, and to prevent hood paint damage, move the windshield wiper blades to the service position. After turning off the vehicle, move the wiper switch to the single wiping (MIST) position within 20 seconds. Hold the switch for more than 2 seconds until the wiper blades

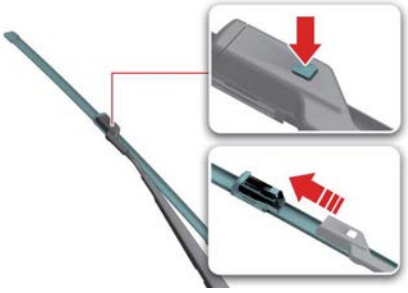
are pointing straight up.

NOTE

Wiper arms

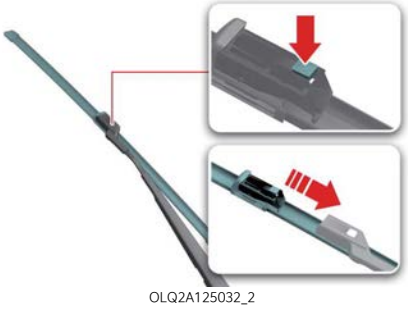
- Do not allow the wiper arm to fall against the windshield, as it may crack or chip the glass.
- Do not pull the wiper arm forward, as the arm could chip the hood paint.

1. Raise the wiper arm and rotate the wiper blade to access the clip.
2. While pushing the clip, pull down the wiper blade. Remove the wiper blade from the wiper arm.



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3. Install a new wiper blade assembly in the reverse order of removal.



OLQ2A125032_2

4. Make sure that both blade assemblies are installed firmly by trying to pull them slightly.
5. Gently put the wipers back down onto the windshield.
6. Start the vehicle to the ON position to return the wiper arms to their normal operating position.

Rear wiper blade replacement



OLQ2A125012

1. Move the wiper switch to the single wiping (MIST) position within 20 seconds. Hold the switch for more than 2 seconds until the wiper blade moves down to the bottom middle position.
2. Raise the wiper arm and press the wiper blade slot.



OLQ2A125028

3. Pull to remove the wiper blade.



OLQ2A125043_2

4. Install the new blade assembly by inserting the center part into the slot in the wiper arm until it clicks into place.
5. Make sure that the blade assembly is installed firmly by trying to pull it slightly.

Place the wiper arm on the rear windshield, and start the vehicle to the ON position, and operate the rear wiper to make sure the blade is installed correctly.

To prevent damage to the wiper arm or other components, have the wiper blade replaced by an authorized Kia dealer.

TIP

- The wiper may not operate for approximately 10 seconds if you try to operate it without washer fluid or if the blades are frozen. This is not a malfunction. It is a wiper protection system activated by the motor overload circuit within the wiper motor.
- With the wiper blades raised up, clean the front windshield with a hose and wipe it with a clean towel. Whenever grease or wax has been applied to the wiper blades, wipe them clean.

NOTE

If you apply too much force to the wiper arm while pulling the blade, you may damage the center part.

12V battery

For best battery service



OLQ2A125013

- Keep the 12V battery securely installed.
- Keep the top of the 12V battery clean and dry.
- Keep the terminals and connections clean, tight, and coated with petroleum jelly or terminal grease.
- Immediately rinse any spilled electrolyte from the 12V battery using a solution of water and baking soda.
- If you do not plan to use the vehicle for an extended period of time, disconnect the 12V battery cables.

NOTE

Your vehicle is equipped with a maintenance-free 12V battery. If your vehicle's 12V battery is marked with **LOWER** and **UPPER** on the side, you can check the electrolyte level. The electrolyte level should be between the **LOWER** and **UPPER** marks. If the electrolyte level is low, add distilled (demineralized) water. (Never add sulfuric acid or other electrolytes.) When refilling, be careful not to splash the 12V battery and adjacent components. Do not overfill the 12V battery cells, as this can cause corrosion on other parts. Make sure to tighten the cell caps. Contact an authorized Kia dealer.

WARNING

Risk of explosion



Keep lit cigarettes and all other flames or sparks away from the 12V battery.



The 12V battery contains hydrogen, a highly combustible gas that will explode if it comes into contact with a flame or spark.



Keep 12V batteries out of reach of children because 12V batteries contain highly corrosive sulfuric acid and electrolytes. Do not allow 12V battery acid to come into contact with your skin, eyes, clothing, or your vehicle's paint finish.



Wear eye protection when charging or working near a 12V battery. Always have proper ventilation when working in an enclosed space.



Always read instructions carefully when handling a 12V battery.



If electrolyte gets into your eyes, flush your eyes with clean water for at least 15 minutes and seek immediate medical attention. If electrolyte gets on your skin, thoroughly wash the affected area. If you feel pain or a burning sensation, seek immediate medical attention.



An inappropriately disposed 12V battery can be harmful to the environment and human health. Dispose of the 12V battery according to your local laws or regulations.



The 12V battery contains lead. Do not dispose of it after use. Please return the 12V battery to an authorized Kia dealer to be recycled.

Never attempt to recharge the 12V battery when the 12V battery cables are connected.

WARNING

Risk of electrocution

Never touch the electrical ignition system while the vehicle is running. This system works with high voltage, which can shock you.

WARNING

California Proposition 65

Battery posts, terminals, and related accessories contain lead and lead compounds, chemicals known to the State of California to cause cancer, birth defects, and reproductive harm. Batteries also contain other chemicals known to the State of California to cause cancer. Wash hands after handling.

CAUTION

12V battery lead compound
12V battery posts, terminals, and related accessories contain lead and lead compounds. Wash your hands after handling these parts.

TIP

If you connect unauthorized electronic devices to the 12V battery, the 12V battery may be discharged. Never use unauthorized devices.

12V battery recharging

If the 12V battery discharges, start the vehicle for at least 60 minutes, either driving or idling. Alternatively, you may connect a fully automatic regulated charger to the engine compartment front jumper posts or to the 12V battery.

When recharging the 12V battery, take the following precautions:

- Remove the 12V battery from the vehicle and place it in an area with good ventilation.
- Do not allow cigarettes, sparks, or flame near the 12V battery.
- Watch the 12V battery while it charges, and stop or reduce the charging rate in the following cases:
  1. The 12V battery cells begin boiling violently.
  2. The electrolyte temperature of any cell is above 120 °F (49 °C).
- Wear eye protection when you check the 12V battery while it is charging.
- Before performing maintenance or recharging the 12V battery, turn off all accessories and stop the vehicle.
- Disconnect the 12V battery charger in the following order:
  1. Turn off the 12V battery charger main switch.
  2. Unhook the negative clamp from the negative battery terminal.
  3. Unhook the positive clamp from the positive battery terminal.
- The negative battery cable must be removed first and installed last when the 12V battery is disconnected.

WARNING

AGM battery

- Absorbent Glass Matt (AGM) batteries are maintenance-free. Have your AGM battery serviced by an authorized Kia dealer.

  To charge your AGM battery, use only fully automatic battery chargers that are specially developed for AGM batteries.
- When replacing the AGM battery, use replacement parts from an authorized Kia dealer.
- Do not open or remove the cap on top of the battery. This may cause internal electrolytes to leak, which could result in severe injury.

Reset items

Reset the following items after the 12V battery has been discharged or disconnected:

- Auto up and down window (Refer to "Window opening and closing" on page 93)
- Climate control system (Refer to "Automatic climate control system" on page 313)
- Sunroof (Refer to "Sunroof" on page 100, "Dual wide sunroof" on page 106)
- Radio presets
- Clock

12V parking lithium battery (if equipped)

Your vehicle uses an additional 12V parking lithium battery to secure stable operation power supply when you operate certain functions while parking, such as Over-The-Air (OTA) software update, air conditioning (A/C) automatic drying, and CCS.

If the 12V lithium auxiliary battery detects an abnormality (such as high temperature or over-charging), the instrument cluster displays a warning message, or the vehicle sends a malfunction alert text message to the registered mobile phone number.

NOTE

Only customers who subscribe to the Kia Connect service receive a malfunction alert text message.

TIP

If you receive a warning message on the instrument cluster or a malfunction alert text on your phone, have the system inspected by an authorized Kia dealer.

Tires and wheels

Tire care

For proper maintenance, safety, and maximum fuel economy, you must always maintain the recommended tire pressures and stay within the load limits and weight distribution recommended for your vehicle.

Recommended cold tire inflation pressures



OLQ2A035004

You can find all tire specifications (sizes and pressures) on the label attached to the vehicle's side center pillar.
Failure to maintain the specified tire pressure may result in excessive wear, poor handling, reduced fuel economy, deformation of tires or wheels, harsh riding conditions, possible additional damage from road hazards, or tire failure.

⚠ WARNING

Tire underinflation
Inflate your tires according to the instructions provided in this manual. Regularly check the tire inflation pressure, and correct it as needed at least twice a month and before any long trips. If you fail to take this precaution, you may be driving on underinflated tires, which may not only compromise your vehicle's driving stability, but may also lead to tire damage and the risk of an accident resulting in serious injury or death. This risk is much higher on hot days and when driving at high speeds for long periods of time.

TIP

Check all tire pressures when the tires are cold (after the vehicle has been sitting for at least 3 hours, or you haven't driven it more than 1 mile (1.6 km) since you started it.)

Maintain the recommended tire pressures for the best ride, vehicle handling, and minimum tire wear.

For recommended tire pressures, refer to "Tires and wheels" on page 29.

Tire pressure

Always follow these recommendations:

- Check the tire pressure when the tires are cold (after the vehicle has been sitting for at least 3 hours, or you haven't driven it more than 1 mile (1.6 km) since you started it.)
- Check the pressure of your spare tire each time you check the pressure of other tires. (if equipped)
- Never overload your vehicle. Be careful not to overload the luggage rack (if equipped).
- Warm tires normally exceed recommended cold tire pressures by 4-6 psi (28-41 kPa). Do not release air from warm tires to adjust the pressure, or the tires will be underinflated.

WARNING

Tire inflation

Overinflation or underinflation can reduce tire life, adversely affect vehicle handling, and lead to sudden tire failure. This could result in a loss of vehicle control and potential injury.

Tire terminology and definitions

Refer to the following list for detailed definitions of the terms found in the tire description:

Air Pressure

The amount of air inside the tire pressing outward on the tire. Air pressure is expressed in pounds per square inch (psi) or kilopascal (kPa).

Accessory Weight

The combined weight of optional accessories. Some examples of optional accessories are automatic transmission, power seats, and air conditioning.

Aspect Ratio

The relationship of a tire's height to its width.

Belt

A rubber coated layer of cords located between the plies and the tread. Cords may be made from steel or other reinforcing materials.

Bead

The tire bead contains steel wires wrapped by steel cords that hold the tire onto the rim.

Bias Ply Tire

A pneumatic tire in which the plies are laid at alternate angles less than 90 degrees to the centerline of the tread.

Cold Tire Pressure

The amount of air pressure in a tire, measured in pounds per square inch (psi) or kilopascals (kPa) before a tire has built up heat from driving.

Curb Weight

The weight of a motor vehicle with standard and optional equipment (including the maximum capacity of fuel, oil, and coolant), but without passengers or cargo.

DOT Markings

A code molded into the sidewall of a tire signifying that the tire complies with the U.S. Department of Transportation motor vehicle safety standards. The DOT code includes the Tire Identification Number (TIN), an alphanumeric designator that can also identify the tire manufacturer, production plant, brand, and date of production.

GVWR

Gross Vehicle Weight Rating.

GAWR FRT

Gross Axle Weight Rating for the Front axle.

GAWR RR

Gross Axle Weight Rating for the Rear axle.

Intended Outboard Sidewall

The side of an asymmetrical tire that must always face outward when mounted on a vehicle.

Kilopascal (kPa)

The metric unit for air pressure.

Light truck (LT) tire

A tire designated by its manufacturer as primarily intended for use on lightweight trucks or multipurpose passenger vehicles.

Load rating

The maximum load that a tire is rated to carry for a given inflation pressure.

Load Index

An assigned number ranging from 1 to 279 that corresponds to the load carrying capacity of a tire.

Maximum Inflation Pressure

The maximum air pressure to which a cold tire may be inflated. The maximum air pressure is molded onto the sidewall.

Maximum Load Rating

The load rating for a tire at the maximum inflation pressure for that tire.

Maximum Loaded Vehicle Weight

The sum of the curb weight, accessory weight, vehicle capacity weight, and production options weight.

Normal Occupant Weight

The number of occupants a vehicle is designed to seat multiplied by 150 lb (68 kg).

Occupant Distribution

Designated seating positions.

Outward Facing Sidewall

The side of an asymmetrical tire that faces outward when mounted on a vehicle. The outward facing sidewall bears white lettering or manufacturer, brand, or model name moldings that are higher or deeper than the same moldings on the inner facing sidewall.

Passenger (P-Metric) Tire

A tire used on passenger cars and some light duty trucks and multipurpose vehicles.

Ply

A layer of rubber-coated parallel cords.

Pneumatic tire

A mechanical device made of rubber, chemicals, fabric, and steel or other materials that, when mounted on an automotive wheel, provides the traction and contains the gas or fluid that sustains the load.

Production options weight

The combined weight of installed regular production options weighing over 5 lb (2.3 kg) more than the standard items that they replace, not previously considered in curb weight or accessory weight. Examples include heavy duty brakes, ride levelers, roof rack, heavy duty battery, and special trim.

Recommended Inflation Pressure

The vehicle manufacturer's recommended tire inflation pressure, shown on the tire placard.

Radial Ply Tire

A pneumatic tire in which the ply cords that extend to the beads are laid at 90 degrees to the centerline of the tread.

Rim

A metal support for a tire upon which the tire beads are seated.

Sidewall

The portion of a tire between the tread and the bead.

Speed Rating

An alphanumeric code assigned to a tire indicating the maximum speed at which the tire can operate.

Traction

The friction between the tire and the road surface (the amount of grip provided).

Tread

The portion of a tire that contacts the road.

Treadwear Indicators

Narrow bands, sometimes called "wear bars," that show across the tread of a tire when only 1/16 inch (1.6 mm) of tread remains.

UTQGS

Uniform Tire Quality Grading Standards, a tire information system that provides consumers with ratings for a tire's traction, temperature, and tread wear. Ratings are determined by tire manufacturers using government testing procedures. The ratings are molded into the sidewall of the tire.

Vehicle Capacity Weight

The weight of the designated seating positions multiplied by 150 lb (68 kg) plus the rated cargo and luggage load.

Vehicle Maximum Load on the Tire

The load on an individual tire due to curb and accessory weight plus the maximum occupant and cargo weight.

Vehicle Normal Load on the Tire

The load on an individual tire, determined by distributing to each axle its share of the curb weight, accessory weight, and normal occupant weight and dividing by 2.

Vehicle Placard

A label permanently attached to a vehicle showing the original equipment tire size and recommended inflation pressure.

Tire sidewall labeling

This information identifies and describes the fundamental characteristics of the tire and provides the Tire Identification Number (TIN) for safety standard certification.



KIAPB032

The TIN can be used to identify the tire in case of a recall.

1. Manufacturer or brand name

The sidewall shows the manufacturer or brand name.

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 vehicle. The following example explains what the letters and numbers in the tire size designation mean.
(These numbers are provided as an example only; your tire size designation could vary depending on your vehicle.)
Example tire size designation:
P255/45R20 105V

- **P**: Applicable vehicle type (tires marked with the prefix **P** are intended for use on passenger vehicles or light trucks; however, not all tires have this marking).
- **255**: Tire width in millimeters.
- **45**: Aspect ratio (the tire's section height as a percentage of its width).
- R: Tire construction code (Radial).
- **20**: Rim diameter in inches.
- **105**: Load Index (a numerical code associated with the maximum load the tire can carry).
- **V**: 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 example explains what the letters and numbers in the wheel size designation mean. Example wheel size designation:

8.5JX20

- **8.5**: Rim width in inches.
- J: Rim contour designation.
- **20**: Rim diameter in inches.

Tire speed ratings

The following chart lists many of the different speed ratings that are currently used for passenger vehicle tires. The speed rating is part of the tire size designation marked on the sidewall of the tire. This symbol corresponds to that tire's designed maximum safe operating speed.

Speed Rating Symbol	Maximum Speed
S	112 mph (180 km/h)
T	118 mph (190 km/h)
H	130 mph (210 km/h)
V	149 mph (240 km/h)

Speed Rating Symbol	Maximum Speed
W	168 mph (270 km/h)
Y	186 mph (300 km/h)

3. Checking tire life

Any tires that are over 6 years old, based on the manufacturing date, should be replaced with new ones. You can find the manufacturing date on the tire sidewall (possibly on the inside of the wheel) displayed as part of the DOT code. The DOT code consists of a series of numbers and English letters on a tire. The manufacturing date is designated by the last 4 digits (characters) of the DOT code.

DOT: XXXX XXXX OOOO

The first part of the DOT code contains the plant code number, tire size, and tread pattern, and the last four numbers indicate week and year manufactured.

For example:

DOT XXXX XXXX 1626 means that the tire was produced in the 16th week of 2026.

WARNING

Tire age

Replace tires within the recommended time frame. Failure to replace tires as recommended can result in sudden tire failure, which could lead to a loss of vehicle control and an accident, potentially leading to serious injury or death.

4. Tire ply composition and material

Tire ply means the number of layers (or plies) of rubber-coated fabric in the tire. Tire manufacturers must list 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 Inflation Pressure

This number is the greatest amount of air pressure that should be put into the tire. Do not exceed the maximum inflation pressure. Refer to "Certification label" on page 453 for the recommended inflation pressure.

6. Maximum load rating

This number is the maximum load in kilograms and pounds that the tire can carry. 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**

Tires degrade over time, even when you are not using them. Regardless of the remaining tread, we recommend that you replace the tires after approximately 6 years of normal service. Heat from hot climates or frequent high loading conditions can accelerate the aging process.

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 1½ times as well on the government test course as a tire graded 100.
The relative performance of tires depends on the actual conditions of their use. Performance may depart significantly from the norm due to variations in driving habits, service practices, and differences in road characteristics and climate.
Tread wear 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, and C

The traction grades from highest to lowest are AA, A, B, and C. These 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.
The traction grade assigned to this tire is based on straight-ahead braking traction tests and does not include acceleration, turning, hydroplaning, or peak traction characteristics.

Temperature — A, B, and C

The temperature grades from highest to lowest are A, 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 the life of the tire, and excessive temperature can lead to sudden tire failure. Grade C corresponds to the performance level that all passenger vehicle tires must meet under the Federal Motor Vehicle Safety Standard No. 109. Grades B and A represent higher levels of performance on the laboratory test wheel than the minimum required by law.

Checking tire inflation pressure

Check your tires once a month or more.

Use a high-quality 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.
Check the tire inflation pressure when the tires are cold (after the vehicle has been sitting for at least 3 hours, or you haven't driven it more than 1 mile (1.6 km) since you started it.)

1. Remove the valve cap from the tire valve stem.
2. Press the tire gauge firmly onto the valve to measure the pressure. If the cold tire inflation pressure matches the recommended pressure on the tire and loading information label, no further adjustment is necessary.
3. If the pressure is low, add air until you reach the recommend-

ed pressure.
4. If you overfill the tire, release air by pushing on the metal stem in the center of the tire valve.
5. Recheck the tire pressure with the tire gauge.
6. Be sure to put the valve caps back on the valve stems. They help prevent leaks by keeping out dirt and moisture.

Inspect your tires frequently for proper inflation as well as wear and damage. Always use a tire pressure gauge.

Tires with too much or too little pressure wear unevenly. This could result in poor handling, a loss of vehicle control, and sudden tire failure, leading to accidents, injuries, and even death. The recommended cold tire pressure for your vehicle can be found in this manual and on the tire label located on the vehicle's side center pillar.

Tire maintenance

In addition to proper inflation, correct wheel alignment helps to prevent wear on the tires.

If you find a tire is worn unevenly, have your dealer check the wheel alignment.
Make sure the newly installed tires are balanced correctly to increase vehicle ride comfort and tire life. In addition, always rebalance a tire when it is removed from the wheel.

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.

If you notice unusual tire wear, or if your vehicle pulls or drifts in one direction or the other, you may need to have the alignment reset.
If you notice your vehicle vibrating when you drive on a smooth road, you may need to have your wheels rebalanced.

NOTE

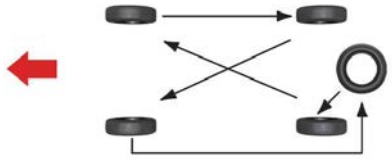
Wheel weight
Improper wheel weights can damage your vehicle's aluminum wheels. Use only approved wheel weights.

Tire rotation

To equalize tread wear, it is recommended that you rotate the tires every 8,000 miles (13,000 km) or sooner if irregular wear develops.

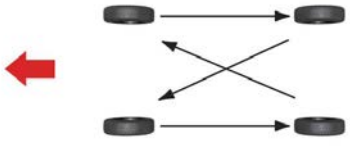
During rotation, check the tires for correct balance.
When rotating the tires, check for uneven wear and damage. Abnormal wear is usually caused by incorrect tire pressure, improper wheel alignment, out-of-balance wheels, severe braking, or severe turning. Look for bumps or bulges in the tread or on the side of the tire. Replace the tire if you find either of these conditions. Replace the tire if fabric or cord is visible. After rotating the tires, be sure to bring the front and rear tire pressures to specification and check the tightness of the lug nuts (proper torque is 11 - 13 kgf·m [79 - 94 lb-ft]).
Refer to "Tires and wheels" on page 29.
Inspect the disc brake pads for wear whenever you rotate the tires.

With a spare tire



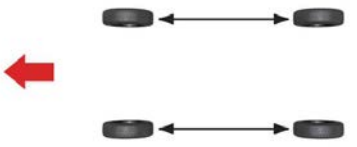
KIAPB033

Without a spare tire



KIAPB034

Directional tires (if equipped)



KIAPB035

Rotate radial tires with an asymmetric tread pattern only from front to rear and not from right to left.

WARNING

Mixing tires

Do not mix bias ply and radial ply tires under any circumstances. This may cause unusual handling.

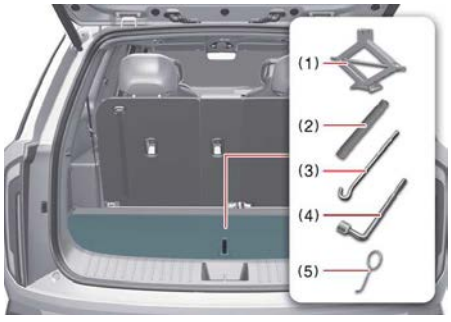
Tire traction

Driving on worn tires, improperly inflated tires, or slippery road surfaces may reduce the tire traction.

Replace the tires when the tread wear indicators appear. Slow down whenever there is rain, snow, or ice on the road to reduce the risk of losing control of the vehicle.

Wheel and tire installation

When removing and installing wheels and tires, use the tool for removing the wheel cover inside the tool case to remove the wheel cover. The remover tool insertion hole is located at the top or edge of the wheel cover.



(1) Jack
(2) Socket
(3) Jack handle
(4) Wheel lug nut wrench
(5) Wheel cover remover tool

OLQ2AH115004

Removing the wheel cover using a dedicated removal tool



OLQ2A115010

1. Make sure to place the wheel cover into the designated position when replacing the wheel cover.

2. The designated position of the wheel cover depends on the shape of the wheel. It must be installed in the same position as before disassembly.
3. Be careful not to install in the wrong location or force it in, as this may damage the parts or cause the wheel cover to come off while driving.

Tire replacement

If the tire is worn evenly, a tread wear indicator appears as a solid band across the tread.



KIAPB036

(1) Tread wear indicator

This indicator shows that there is less than 1/16 inches (1.6 mm) of tread left on the tire. Replace the tire when this indicator appears.
Do not wait for the band to appear across the entire tread before replacing the tire.
The Anti-lock Brake System (ABS) works by comparing the speed of the wheels. The tire size affects the wheel speed. When replacing the tires, all four tires must be the same size as the original ones supplied with the vehicle. Using tires of a different size can prevent the ABS and ESC from working correctly.
It is best to replace all four tires at the same time. If that is not possible or necessary, replace the two front or two rear tires as a pair. Replacing just one tire can seriously affect your vehicle's handling.

WARNING

When you replace the tires, use the same type of tires as the ones originally supplied with the vehicle to avoid impacting the driving performance.

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.

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.

A wheel of the incorrect size may adversely affect many things, including wheel and bearing life, braking and stopping abilities, handling characteristics, ground clearance, body-to-tire clearance, tire chain clearance, speedometer and odometer calibration, headlamp aim, and bumper height.

WARNING

Wheels

Wheels that do not meet Kia specifications may fit poorly and result in damage to the vehicle or unusual handling and poor vehicle control.

All season tires

Kia specifies all season tires on some models to provide good performance for use all year round, including for snowy and icy road conditions.

All season tires are identified by ALL SEASON or M+S (Mud and Snow) on the tire sidewall. Snow tires have better snow traction than all season tires and may be more appropriate in some areas.

Summer tires

Kia specifies summer tires on some models to provide superior performance on dry roads.

Summer tire performance is substantially reduced in snow and ice. Summer tires do not have the tire traction rating M+S (Mud and Snow) on the tire side wall. If you plan to drive your vehicle in snowy or icy conditions, Kia recommends the use of snow tires or all season tires on all four wheels.

Snow tires

If you equip your vehicle with snow tires, they should be the same size and have the same load capacity as the original tires.

Install snow tires on all four wheels. Doing otherwise may result in poor handling.
Snow tires should carry 4 psi (28 kPa) more air pressure than the pressure recommended for standard tires on the tire label on the driver side center pillar, or up to the maximum pressure shown on the tire sidewall, whichever is less.
Do not drive at speeds above 75 mph (120 km/h) when your vehicle is equipped with snow tires.

⚠ WARNING

Do not use summer tires at temperatures below 45 °F (7 °C) or when driving on snow or ice. At temperatures below 45 °F (7 °C), summer tires can lose elasticity, and therefore lose traction and braking power. Change the tires on your vehicle to winter or all season tires of the same size as the standard tires on the vehicle. Both types of tires are identified by the M+S (Mud and Snow) marking. Using summer tires at very cold temperatures could cause cracks to form and permanently damage the tires.

Tire chains

Tire chains, if necessary, should be installed on the front wheels.

Be sure to install the chains according to the manufacturer's instructions.
To minimize tire and chain wear, do not continue to use tire chains when you no longer need them.

- When driving on roads covered with snow or ice, drive at speeds below 20 mph (30 km/h).
- If you hear noise caused by the chains making contact with the body of the vehicle, retighten the chains to avoid contact with the body.
- To prevent damage to the body of the vehicle, retighten the chains after driving 0.3-0.6 miles (0.5-1 km).
- Do not use tire chains on vehicles equipped with aluminum wheels. In unavoidable circumstance, use a fabric type chain.

Radial-ply tires

Radial-ply tires provide improved tread life, road hazard resistance, and a smoother high-speed ride.

The radial-ply tires used on this vehicle are of belted construction and are selected to complement the vehicle's ride and handling characteristics. Radial-ply tires have the same load carrying capacity as bias-ply or bias belted tires of the same size, and they have the same recommended inflation pressure.
Do not mix radial-ply tires with bias-ply or bias belted tires. Any combinations of radial-ply and bias-ply or bias belted tires when used on the same vehicle seriously deteriorate the vehicle's handling. Always use identical radial-ply tires as a set of four.
Longer wearing tires can be more susceptible to irregular tread wear. Follow the tire rotation interval shown in this section to achieve the tread life potential of these tires. Cuts and punctures in radial ply tires can only be repaired in the tread area because of sidewall flexing. Consult your tire dealer for radial-ply tire repairs.

Low aspect ratio tires (if equipped)

Low aspect ratio tires (tires whose aspect ratio is lower than 50)

are provided for sporty looks.

Because low aspect ratio tires are optimized for handling and braking, it may be more uncomfortable to ride in vehicles equipped with them, and they make more noise than normal tires.

NOTE

Because the sidewall of a low aspect ratio tire is shorter than normal, the wheel and tire are more easily damaged. Follow these recommendations:

- When driving on a rough road or off-road, drive cautiously to avoid damaging the tires and wheels. After driving, inspect the tires and wheels.
- When passing over a pothole, speed bump, manhole, or curb stone, drive slowly to avoid damaging the tires and wheels.
- If the tire sustains impact, inspect the tire's condition or contact an authorized Kia dealer.
- To prevent damage to the tires, inspect their condition and pressure every 1,900 miles (3,000 km).
- It is not easy to visually recognize tire damage. If there is a hint of tire damage, even though you cannot see it, have the tire checked or replaced because damage may cause air to leak from the tire.
- If you damage the tires by driving on a rough road, off-road, or over a pothole, manhole, or curb stone, they are not covered by your warranty.
- You can locate the tire information on the tire sidewall.

Fuses

* Left side: Normal
* Right side: Blown

Blade type



KIAPB037_2

Cartridge type



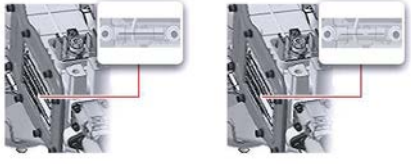
KIAPB038_2

Multi fuse



KIAPB039_4

High voltage fuse



KIAPB040_4

* The actual fuse/relay panel label may differ from equipped items.

Fuses protect a vehicle's electrical system from electrical overload damage.

Your vehicle has 2 (or 3) fuse panels: one in the driver side panel bolster, and the others in the engine compartment near the battery.

If any of your vehicle's lights, accessories, or controls do not work, check the appropriate circuit fuse. If a fuse is blown, the element inside the fuse melts.

If the electrical system does not work, check the driver side fuse panel first.

If a replacement fuse blows, this indicates an electrical problem. Avoid using the respective system and immediately consult an authorized Kia dealer.

Your vehicle uses 3 kinds of fuses: blade type for lower amperage rating, cartridge type, and multi fuse for higher amperage ratings.

⚠ WARNING

Fuse replacement

- Never replace a fuse with a fuse of a different rating. A higher capacity fuse could cause damage and possibly fire.
- Never install wire or aluminum foil in place of a proper fuse, even as a temporary repair. Doing so may cause extensive wiring damage and possibly fire.
- Do not arbitrarily modify or add electric wiring to the vehicle.

⚠ WARNING

Electrical fire

Always ensure replacements fuses and relays are securely fastened when installed. Failure to do so can result in a vehicle fire.

Do not remove fuses, relays, and terminals fastened with bolts or nuts. The fuses, relays, and terminals may be fastened incompletely and could cause a possible fire. If fuses, relays, and terminals fastened with bolts or nuts are blown, consult an authorized Kia dealer.

NOTE

- Never insert objects other than fuses or relays, such as a screwdriver or wiring, into fuse or relay terminals. Doing so may cause contact failure and system malfunction.
- The inner junction block can burn if you directly connect the wire on the rear combination lamp or replace its bulb with one over the regulated capacity to install a trailer.

NOTE

- Do not use a screwdriver or any other metal object to remove fuses. Doing so may cause a short circuit and damage the electrical system.
- When replacing a blown fuse or relay, make sure the new fuse or relay fits tightly in the clips. Failure to tightly install a fuse or relay may cause damage to the wiring and electrical systems.

NOTE

Electrical wiring repairs

All electrical repairs should be performed by authorized Kia dealerships using approved Kia parts. Using other wiring components, especially when retrofitting a multimedia or theft alarm system, phone, or radio may cause vehicle damage and increase the risk of a vehicle fire.

NOTE

Rewiring prohibited

Do not rewire your vehicle in any way. Doing so may affect the performance of several safety features in your vehicle. Rewiring your vehicle may also void your warranty, which makes you responsible for any subsequent vehicle damage.

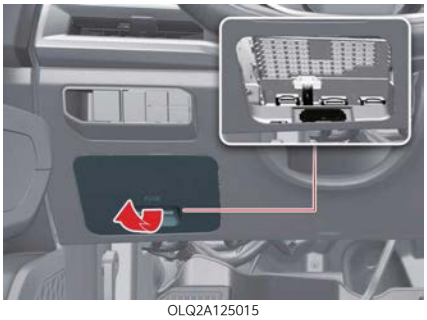
TIP

- When you replace a fuse, make sure the vehicle and all other switches are in the OFF position, then remove the negative 12V battery terminal.
- The actual fuse or relay panel label may differ from equipped items.

Inner panel fuse replacement

To replace a fuse in the inner panel, follow these steps:

1. Make sure the vehicle and all other switches are in the OFF position.
2. Remove the fuse panel cover.



OLQ2A125015

3. Pull the suspected fuse straight out using the removal tool provided in the engine compartment's main fuse box.



OLQ2A125016

4. Check if the fuse you removed is blown. If so, replace the fuse.
   Spare fuses are provided in the instrument panel fuse panel (or in the engine compartment fuse panel).
5. To replace the blown fuse, push in a new fuse of the same rating and make sure it fits tightly in the clips.
   If the new fuse does not fit tightly, consult an authorized Kia dealer.
   If you do not have a spare fuse, replace the blown fuse with one of the same rating from a circuit you may not need to operate the vehicle, such as the cigarette lighter fuse.
   If the vehicle's exterior and interior lamps do not work and their fuses are not blown, consult an authorized Kia dealer.

Engine compartment fuse replacement

To replace a fuse in the engine compartment fuse panel, follow these steps:

1. Make sure the vehicle and all other switches are in the OFF position.
2. Remove the fuse panel cover by pressing the tab and pulling the cover up.



OLQ2A125017

3. Pull the suspected fuse straight out using the fuse puller provided in the engine compartment fuse panel.
4. Check if the fuse you removed is blown. If so, use the fuse puller again to replace the fuse.
5. To replace the blown fuse, push in a new fuse of the same rating and make sure it fits tightly in the clips. If the new fuse does not fit tightly, consult an authorized Kia dealer.

NOTE

After you check the engine compartment fuse panel, securely install the fuse panel cover (make sure you hear the audible click sound). If you do not securely install the fuse panel cover, electrical failures may occur due to contact with water.

TIP

If the multi-fuse is blown, consult an authorized Kia dealer.

NOTE

The electronic system may not function correctly, even when the engine room and internal fuse box's individual fuses are not disconnected. In this case, the main fuse (BFT type), which is inside the positive 12V battery terminal cap, may be disconnected and causing the malfunction. Because the main fuse is designed more intricately than other parts, you should visit an authorized Kia dealer.

Main fuse (multi-fuse)



OLQ2A125018

If the main fuse (multi-fuse) is blown, follow these steps to remove it:

1. Make sure the vehicle is in the OFF position.
2. Disconnect the negative 12V battery cable.
3. Remove the nuts as shown.
4. Replace the fuse with a new one of the same rating.
5. Reinstall in the reverse order of removal.

NOTE

Visually inspect the 12V battery cap to make sure it is closed securely. If the 12V battery cap is not securely latched, influx of moisture into the electrical system may damage the system.

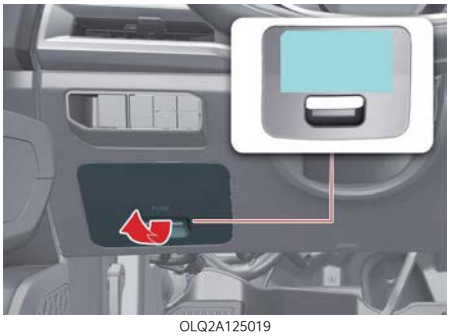
Fuse/relay panel description

Inside the fuse/relay panel covers, you can find the fuse/relay label describing the fuse/relay name and capacity.

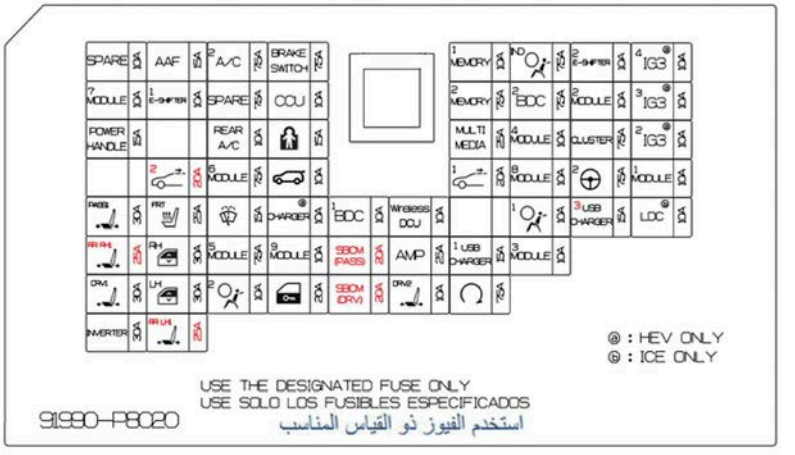
TIP

While the fuse panel descriptions in this manual are accurate at the time of printing, not all fuse panel descriptions may apply to your vehicle.

Driver side fuse panel



OLQ2A125019



OLQ2A125046

PDC

Fuse Name	Fuse Rating	Circuit Protected
SPARE	10A	SPARE

Fuse Name	Fuse Rating	Circuit Protected
AAF	15A	AAF (Active Air Flap)
A/C2	7.5A	ATCU (Air Temperature Control), ATCU Controller, INCAR SENSOR, PTC HEATER 1,2 Relay Coil, E-Compressor (HEV)
BRAKE SW	7.5A	BDC (Body Domain Controller), Stop Lamp Switch
MEMORY1	10A	SAL (Smart Ambient Light), MKBD (Multimedia Keyboard), WPC (Wireless Power Charger), RR_ACON, ADAS Parking ECU (Advanced Driver Assistance System Parking ECU), Rear Corner Radar
A/BAG IND	7.5A	PAB IND (Passenger Airbag Indicator)
E-SHIFTER2	10A	SBW Lever (Shift By Wire Lever)
IG3_4	10A	V2LC Unit (HEV) V2LC Outlet socket (HEV)
MODULE7	10A	Multifunction switch, ICC UNIT (In Cabin Camera Unit), SCM (Steering Column Control Module), OBD (On Board Diagnostic), Blower motor Relay Coil, Rain Sensor
E-SHIFTER1	10A	SBW Lever (Shift By Wire Lever)
SPARE	7.5A	SPARE
CCU	10A	CCU (Communication Central Unit)
MEMORY2	7.5A	ATCU (Air Temperature Control), ATCU Controller, HUD (Head Up Display), CLUSTER
BDC2	7.5A	BDC (Body Domain Controller)
MODULE2	10A	DCU (Data Connectivity Unit), CCU (Communication Central Unit), Stop Lamp Switch
IG3_3	10A	BMS (Battery Management System) (HEV)
POWER HANDLE	15A	SCM (Steering Column Control Module)
RESERVE	7.5A	Not Used
REAR A/C	10A	RR_ACON
CHILD LOCK	15A	Power Child Lock/Unlock
MULTIMEDIA	25A	ccNC (connected car Navigation Cockpit), ISG LDC 200W (ISG Low voltage DC/DC Converter)
MODULE4	10A	Inside Mirror ISG LDC 200W (ISG Low voltage DC/DC Converter), ISG LDC 400W (ISG Low voltage DC/DC Converter), OBD (On Board Diagnostic), ccNC (connected car Navigation Cockpit), SAL (Smart Ambient Light), ICC UNIT (In Cabin Camera Unit), ATCU (Air Temperature Control), ATCU Controller, WPC (Wireless Power Charger), 2nd SEAT LH/RH Buckle Indicator External Amplifier (Merdian), 3rd SEAT switch LH/RH, RR_ACON, Drv SEAT, Power seat unit, Trailer Control Module
CLUSTER	7.5A	CLUSTER HUD (Head Up Display)
IG3_2	10A	CCU (Communication Central Unit)
RESERVE	25A	Not Used
SUNROOF2	20A	Sunroof motor (Rear)
MODULE6	7.5A	P_LBM (Parking Lithum Battery Module), AC Inverter Power Outlet, AC Inverter unit, Head Lamp LH/RH

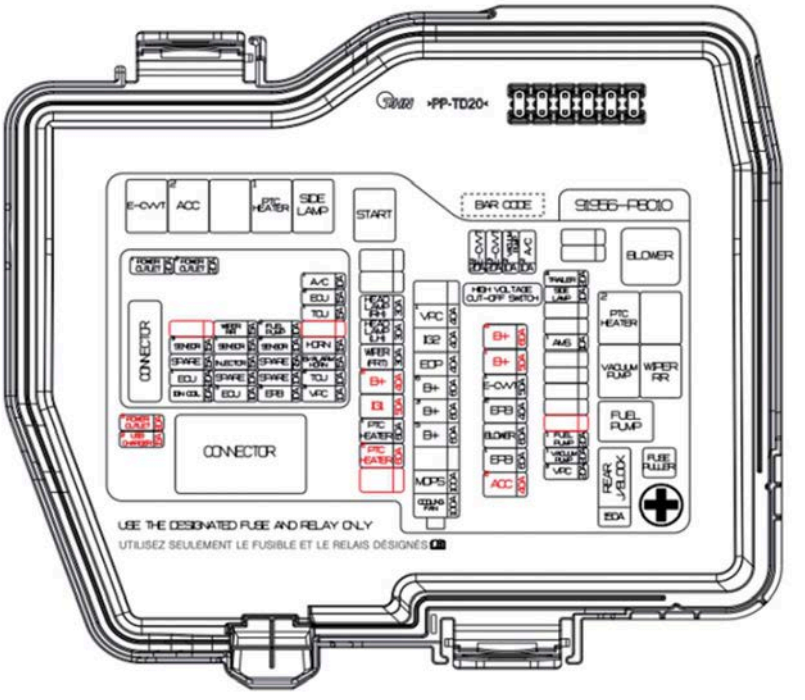
Fuse Name	Fuse Rating	Circuit Protected
TAILG ATE OPEN	10A	Liftgate Latch Actuator
SUNROOF1	20A	Sunroof motor (Front)
MODULE8	10A	Multifunction switch, IMS SW (Intergrated Memory Seat Switch), Power window switch, DRV Passenger Seat switch, 2nd Seat switch LH/RH
MDPS2	7.5A	R-MDPS (Rack-Motor Driven Power Steering)
MODULE1	10A	ccNC (connected car Navigation Cockpit), ISG LDC 200W (ISG Low voltage DC/DC Converter), ISG LDC 400W (ISG Low voltage DC/DC Converter), DCU (Data Connectivity Unit), MKBD (Multimedia Keyboard), BDC (Body Domain Controller), CCU (Communication Central Unit)
P/SEAT PASS1	30A	Passenger Power Seat and Lumbar Support
S/HEATER FRT	25A	Driver and Passenger Seat Warmer/Ventilation
WASHER	15A	Washer Motor
CHARGER	10A	V2LC Unit (HEV)
BDC1	10A	BLE MASTER (Bluetooth Low Energy MASTER), BLE SLAVE (Bluetooth Low Energy SLAVE), UWB (Ultra Wide Band), BDC (Body Domain Controller)
Wireless DCU	10A	DCU (Data Connectivity Unit)
RESERVE	7.5A	Not Used
AIR BAG1	10A	ISCM (Intergrated Safety Control Module), ODS (Occupant Detection System)
USB CHA RGER3	15A	UMM (USB Multi Module)
LDC	10A	MKBD (Multimedia Keyboard), CLUSTER, RR_ACON Rear Corner Radar & Front Corner radar, ADAS Parking ECU (Advanced Driver Assistance System Parking ECU), WPC (Wireless Power Charger), MKBD (Multimedia Keyboard), HUD (Head Up Display)
P/SEAT RR RH1	25A	2nd LH Power Seat
P/WINDOW RH	30A	Power Window Safety ECU, Passenger & Rear RH
MODULE5	7.5A	BDC (Body Domain Controller)
MODULE9	10A	Rear BLOWER Motor Relay Coil, VESS (Virtual Engine Sound System), 2nd & 3rd SEAT Folding switch, Power Liftgate, Drv & Passenger outside door handle touch sensor, Power seat unit ECU (Drv, Passenger, Rear LH, Rear RH), Power window switch DRV, Drv & Passenger outside mirror puddle lamp
SBCM PASS	20A	Side Body-zone Control Module Passenger
AMP	25A	External Amplifier (Merdian), ISG LDC 400W (ISG Low voltage DC/DC Converter)
USB CHA RGER1	15A	UMM (USB Multi Module)

Fuse Name	Fuse Rating	Circuit Protected
MODULE3	10A	Front View Camera SCM (Steering Column Control Module), ADAS Driving ECU (Advanced Driver Assistance System Driving ECU), Crash Pad Switch, Rear & Frong Corner Radar, ADAS Parking ECU (Advanced Driver Assistance System Parking ECU), AWD ECU (All Wheel Drive ECU), Console Switch, Front Radar, High voltage battery cooling fan Relay Coil
P/SEAT DRV1	30A	Drv Power Seat
P/WINDOW LH	30A	Power Window Safety ECU, Drv & Rear LH
AIR BAG2	10A	ISCM (Intergrated Safety Control Module)
DOOR LOCK	20A	Door Lock/Unlock Actuator, Fuel Lid Motor
SBCM DRV	20A	Side Body-zone Control Module Drv
P/SEAT DRV2	10A	Drv Seat Lumbar Support
START	7.5A	BDC (Body Domain Controller), VPC (Vehicle Platform Controller), Start signal (ECU/BDC)
INVERTER	30A	AC Inverter unit
P/SEAT RR LH1	25A	2nd RH Power Seat

Engine compartment fuse panel



OLQ2A125021



OLQ2A125045

Engine Compartment Junction Block

Fuse Name	Fuse Rating	Circuit Protected
RESERVE	-	Not Used

Fuse Name	Fuse Rating	Circuit Protected
RESERVE	-	Not Used
HEAD LAMP RH	S/B LP 30A	Head Lamp RH
HEAD LAMP LH	S/B LP 30A	Head Lamp LH
WIPER FRT	S/B LP 30A	Front Wiper
B+2	S/B LP 40A	PDC (Power-net Domain Controller), B+ - IPS (Turn Signal Lamp, Exterior Tail Lamp, Back-up Lamp, Front Fog Lamp)
IG1	S/B LP 50A	<IG1> ER_JB (PCB_BLOCK), IG1 FUSE LIST : EPB3(ICE), IEB3(HEV), ECU3, OPCU2(HEV), EWP2(HEV), HPCU2(HEV), TCU2, VPC3 PDC (Power-net Domain Controller) IG1 FUSE LIST : AIR BAG1, A/BAG IND, E-SHIFTER2, CLUSTER, BDC2, MDPS2, MODULE2, MODULE3, MODULE4, MODULE8 IPS : Haptic Steering Wheel <ACC> ER_JB ACC FUSE LIST : POWER OUTLET1, POWER OUTLET2 PDC (Power-net Domain Controller) ACC FUSE LIST : USB CHARGER3, MODULE1
PTC1	S/B LP 60A	PTC Heater 1
PTC2	S/B LP 60A	PTC Heater 2
RESERVE	-	Not Used
B+4	S/B LP 60A	PDC (Power-net Domain Controller) B+ - FUSE LIST : MULTIMEDIA1, MEMORY1, MEMORY2, CHILD LOCK, BDC1, BRAKE SW, CCU, SBCM DRV, SBCM PASS, DR LOCK, TAILGATE OPEN
B+1	S/B LP 50A	PDC (Power-net Domain Controller), B+ - IPS (High Mounted Stop Lamp, Rear Fog Lamp, Interior Tail Lamp, Interior Lamp, Steering Wheel Warmer)
E-CVVT1	S/B LP 50A	ER_JB E-CVVT B+ FUSE LIST : E-CVVT1, E-CVVT2
EPB2 (ICE) IEB2 (HEV)	S/B LP 40A (ICE) S/B LP 60A (HEV)	ESC (ELECTRIC STABILITY CONTROL) (ICE), IEB (Integrated Electric Brake) (HEV)
BLOWER	S/B LP 60A	Blower Motor
EPB (ICE) IEB (HEV)	S/B LP 60A	ESC (ELECTRIC STABILITY CONTROL) (ICE), IEB (Integrated Electric Brake) (HEV)
ACC2	S/B LP 40A	ER_JB ACC FUSE LIST : POWER OUTLET3, USB CHARER2
POWER OUTLET3	MICRO 20A	Console Power Outlet
USB CHA RGER2	MICRO 15A	USB Charger (Drv SEAT, Passenger SEAT, Luggage LH, Luggage RH)
E-CVVT2	MICRO 20A	E-CVVT (Electronic-Continuously Variable Valve Timming)
E-CVVT3	MICRO 20A	E-CVVT (Electronic-Continuously Variable Valve Timming)

Fuse Name	Fuse Rating	Circuit Protected
VACUUM PUMP2 (ICE)	MICRO 10A	ESC (ELECTRIC STABILITY CONTROL) (ICE)
A/C2 (ICE)	MICRO 10A	ATCU (Air Temperature Control) (ICE)
VPC4 (HEV)	MICRO 20A	VPC (Vehicle Platform Controller) (HEV)
HPCU3 (HEV)	MICRO 10A	HPCU (Hybrid Power Control Unit) (HEV)
TRAILER4	MICRO 20A	E-Brake
SIDE LAMP	MICRO 10A	Side Ground Lighting Lamp
RESERVE	-	Not Used
RESERVE	-	Not Used
AMS (ICE)	MICRO 10A	12V Battery Sensor (ICE)
EWP1 (HEV)	MICRO 10A	EWP (Electric Water Pump) (HEV)
BMS (HEV)	MICRO 10A	BMS (Battery Management System) (HEV)
OPCU1 (HEV)	MICRO 10A	OPU (Oil Pump Control Unit) (HEV)
HPCU1 (HEV)	MICRO 10A	HPCU (Hybrid Power Control Unit) (HEV)
RESERVE	-	Not Used
FUEL PUMP	MICRO 20A	Fuel Pump Motor
VACUUM PUMP1 (ICE) BATTERY C/FAN (HEV)	MICRO 20A	Electric Vacuum Pump (ICE), BMS (Battery Management System) (HEV)
VPC2 (HEV)	MICRO 20A	VPC (Vehicle Platform Controller) (HEV)
IG3 (HEV)	MULTI 40A	ER_JB IG3 FUSE LIST : HPCU3, VPC4 PDC (Power-net Domain Controller) IG3 FUSE LIST : IG3_2, IG3_3, IG3_4
VPC1	MULTI 40A	VPC (Vehicle Platform Controller) (HEV)
IG2	MULTI 40A	PDC (Power-net Domain Controller) IG2 FUSE LIST : A/C2, REAR A/C, WASHER, MODULE5, MODULE6, SPARE LOAD : Start Solenoid (ICE)
EOP1 (ICE)	MULTI 40A	EOP (Electric Oil Pump) (ICE)
B+6	MULTI 60A	ER_JB (PCB_BLOCK) B+ FUSE LIST : IGN COIL, ECU1, INJECTOR (ICE), SENSOR1, SNESOR2, SENSOR3, SENSOR4 (HEV), FUEL PUMP2, A/C1 (ICE), ECU2, TCU1, HORN, B/ALARM HORN

Fuse Name	Fuse Rating	Circuit Protected
B+3	MULTI 60A	PDC (Power-net Domain Controller) B+ FUSE LIST : SPARE, INVERTER, P/SEAT DRV1, P/SEAT PASS1, P/SEAT RR LH1, P/SEAT RR RH1, S/HEATER FRT, AAF, P/WINDOW LH, P/WINDOW RH, SUNROOF2, E-SHIFTER1, POWER HANDLE, MODULE7
B+5	MULTI 60A	PDC (Power-net Domain Controller) B+ FUSE LIST : AMP. Wireless DCU, CHARGER, MODULE9, P/SEAT DRV2, AIR BAG2, SUNROOF1, USB CHARGER1
SPARE	MULTI 60A	SPARE
MDPS	MULTI 100A	R-MDPS (Rack-Motor Driven Power Steering)
COOLING FAN	MULTI 100A	COOLING FAN
RR_JB	MIDI 150A	RR_JB (Rear Junction Block), B+

Process Control Block (PCB)

Fuse Name	Fuse Rating	Circuit Protected
POWER OUTLET1	MICRO 20A	Front Power Outlet
POWER OUTLET2	MICRO 20A	Luggage Power Outlet
RESERVE	MICRO 30A	Not used
SENSOR3	MICRO 15A	CCV (Canister Control Valve) (ICE), OLS (Oil Level Sensor)
SPARE (ICE) SENSOR4 (HEV)	MICRO 15A	APP (Active Purge Pump) (HEV)
ECU1	MICRO 20A	ECU (Engine Control Unit)
IGN COIL	MICRO 20A	Ignition Coil 1~4
WIPER RR	MICRO 15A	Rear Wiper
SENSOR1	MICRO 15A	O2 Sensor
INJECTOR1 (ICE) SPARE (HEV)	MICRO 15A	Injector 1~4 (ICE)
SPARE (ICE) OPCU2 (HEV)	MICRO 10A	OPU (Oil Pump Control Unit) (HEV)
ECU3	MICRO 10A	ECU (Engine Control Unit)
FUEL PUMP2	MICRO 10A	Fuel Pump Relay Coil

Fuse Name	Fuse Rating	Circuit Protected
SENSOR2	MICRO 10A	OCV (Oil Control Valve), VOPS (Variable oil pump), PCSV (Purge Control Solenoid Valve), ELCM (Evaporation Leak Check Module), FTIV (Fuel Tank Isolation Valve), Cooling Fan, RCV (Recirculation Control Valve)
SPARE (ICE) EWP2 (HEV)	MICRO 7.5A	EWP (Electric Water Pump) (HEV)
SPARE (ICE) HPCU2 (HEV)	MICRO 10A	HPCU (Hybrid Power Control Unit) (HEV)
EPB3 (ICE) IEB3 (HEV)	MICRO 10A	ESC (ELECTRIC STABILITY CONTROL) (ICE), IEB (Integrated Electric Brake) (HEV)
A/C1 (ICE) SPARE (HEV)	MICRO 10A	Compressor
ECU2	MICRO 15A	ECU (Engine Control Unit)
TCU1	MICRO 15A	TCU (Transmission Control Unit)
RESERVE	MICRO 10A	Not used
HORN	MICRO 15A	Horn LH, Horn RH
B/ALARM HORN	MICRO 15A	Burglar Alarm Horn
TCU2	MICRO 10A	TCU (Transmission Control Unit)
VPC3	MICRO 10A	VPC (Vehicle Platform Controller) (HEV)

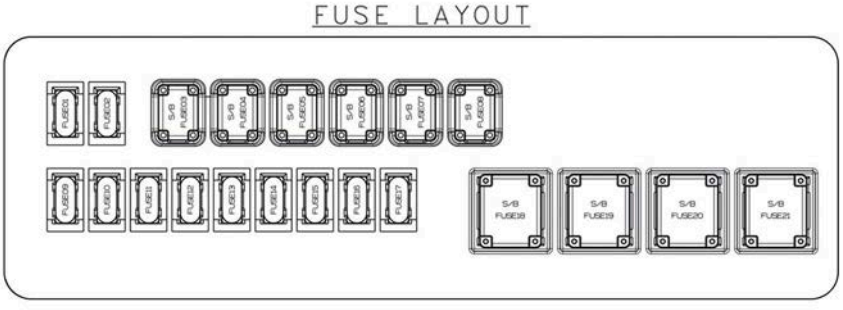
Relay

The following table shows the relay type:

Relay Name	TYPE
E-CVVT	H/C MICRO RELAY 4P
ACC2	H/C MICRO RELAY 4P
RESERVE	-
PTC1	H/C MICRO RELAY 4P
SIDE LAMP	H/C MICRO RELAY 4P
START (ICE) IG3 (HEV)	H/C MICRO RELAY 4P
PTC2	H/C MICRO RELAY 4P
FUEL LID (HEV)	H/C MICRO RELAY 4P
VACUUM PUMP (ICE) Battery Cooling Fan (HEV)	H/C MICRO RELAY 4P
WIPER RR	H/C MICRO RELAY 5P
FUEL PUMP	H/C MICRO RELAY 4P

Relay Name	TYPE
BLOWER	MINI RELAY 4P

Rear Relay



OLQ2A125047

The following table shows the relay type:

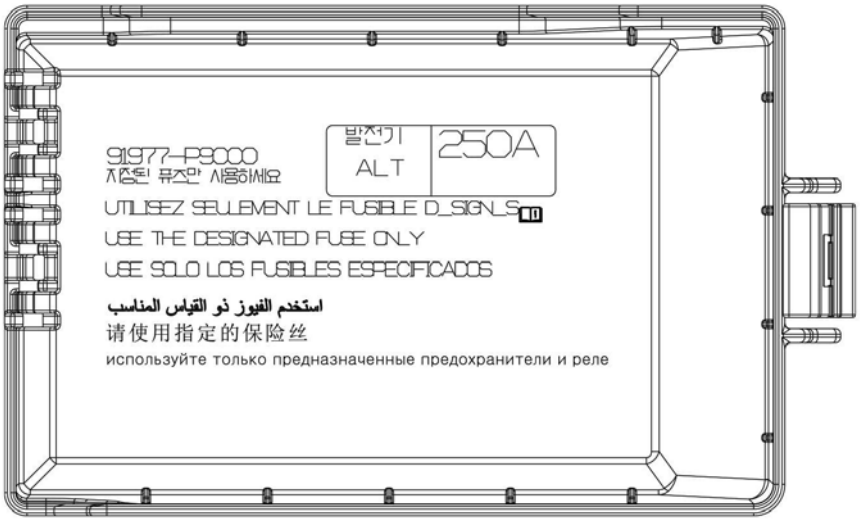
Fuse Name	Fuse Rating	Circuit Protected
RESERVE	MICRO 15A	Not used
E-LSD	MICRO 20A	Electronic Limited Slip Differential
P/SEAT RR LH2	MICRO 30A	2nd row LH Power Seat and Actuator
POWER TAIL GATE	MICRO 40A	PTGM (Power Tail Gate Module)
S/HEATER RR RH	MICRO 25A	2nd row SEAT Heater
TRAILER3	MICRO 25A	CTM (Can Trailer Module)
TRAILER1	MICRO 20A	Trailer Caravan B+

Fuse Name	Fuse Rating	Circuit Protected
P/SEAT RR RH2	MICRO 30A	2nd row RH Power Seat and Actuator
COMBI LAMP LH	MICRO 10A	Rear Combi Lamp LH STOP & Tail Lamp, B+
RESERVE	MICRO 15A	Not used
4WD	MICRO 20A	AWD (All Wheel Drive), ECU
RESERVE	MICRO 15A	Not used
RESERVE	MICRO 15A	Not used
RESERVE	MICRO 15A	Not used
COMBI LAMP RH	MICRO 10A	Rear Combi Lamp RH STOP & Tail Lamp, B+
AMS2 (HEV)	MICRO 10A	12V Battery sensor
TRAILER2	MICRO 20A	CTM (Can Trailer Module)
BLO WER RR	MICRO 40A	Rear Blower Motor
REAR HEATED	MICRO 40A	Rear Glass Heated
AUX BATT	MICRO 50A	PLBM (Parking Lithium Battery Module)
3RD S/H EATER	MICRO 30A	3rd row SEAT Heater

Engine compartment fuse panel (12V battery terminal cover)



OLQ2A125044



OLQ2A125048

Light bulbs

Your vehicle has various light bulbs installed to provide lighting both inside and outside of the vehicle, and to alert other vehicles.

Bulb replacement precautions

You should keep extra light bulbs with appropriate specifications handy in case of emergency. For more information, refer to "Bulb wattage" on page 28.
When you change a light bulb, make sure the vehicle is in the OFF position in a safe place, firmly apply the parking brake, and remove the negative 12V battery terminal.

CAUTION

Working on the lights
Before you work on the lights, make sure the vehicle is in the OFF position in a safe place, firmly apply the parking brake, and turn the lights off to avoid sudden vehicle movement, which could cause finger burns or electric shock.

NOTE

Light replacement
To prevent damage to the fuse or electric wiring system when you replace a light bulb, only use bulbs with the same wattage rating as the burned out bulb.
To prevent damage or fire, make sure light bulbs (and any parts used to secure them) you install are fully seated and locked. Failure to do so may result in heat damage, fire, or water entering the headlamp unit. Any of these results may damage the headlamps or cause condensation to build up on the lens.

NOTE

Headlamp lens
To prevent damage, do not clean the headlamp lens with chemical solvents or strong detergents.
To prevent damage to the headlamp lens, do not clean it with chemical solvents or strong detergents.

WARNING

After an accident or headlamp assembly reinstallation, have the headlamp aim adjusted by an authorized Kia dealer.

NOTE

- If the light bulb or lamp connector is removed while the lamp is still on, the fuse box's electronic system may log it as a malfunction. Therefore, a lamp malfunction incident may be recorded as a Diagnostic Trouble Code (DTC) in the fuse box.

- It is normal for an operating lamp to flicker momentarily due to a stabilization function of the vehicle's electronic control device. If the lamp lights up normally after blinking momentarily, it is functioning as normal.
  However, if the lamp continues to flicker several times or turns off completely, there may be an error in the vehicle's electronic control device. In this case, have the vehicle inspected by an authorized Kia dealer immediately.

TIP

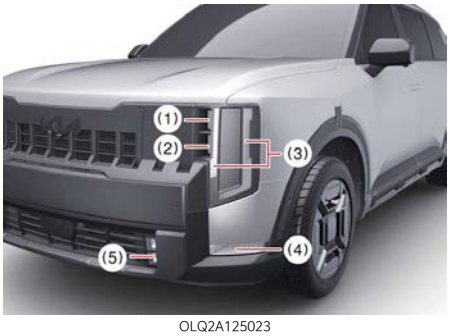
After you wash your vehicle or drive in the rain, you may find moisture inside the lamp lenses. This is normal condensation caused by the temperature difference between the inside and the outside of the lamp. It does not indicate a problem with the lamp's functions. The moisture inside the lamp disappears if you drive the vehicle with the headlamps on. However, the level at which moisture dissipates may differ depending on the size, location, and condition of the lamp. If the moisture remains inside the lamp, have your vehicle inspected by an authorized Kia dealer.

If you lack the necessary tools, correct light bulbs, or expertise to replace a light bulb, consult an authorized Kia dealer. In many cases, replacing vehicle light bulbs is difficult because you must remove other parts of the vehicle before you can access the bulb. This is especially true if you have to remove the headlamp assembly to access the bulb.
Removing or reinstalling the headlamp assembly can damage the vehicle. Using non-genuine parts or substandard bulbs may blow a fuse or cause other wiring damage.
Do not install extra lamps or LED lights on your vehicle. Installing additional lights may lead to lamp malfunctions, lamp flickering, or damage to the fuse box and other wiring.

Light bulb position (Front)

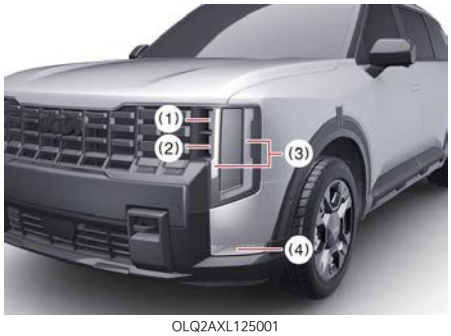
* : if equipped

Type A



OLQ2A125023

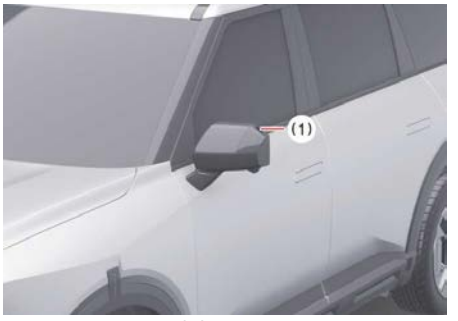
Type B



OLQ2AXL125001

(1) Headlamp (Low) (LED type)
(2) Headlamp (Low/High) (LED type)
(3) Day time running light/Position lamp/Front turn signal lamp (LED type)
(4) Front side marker lamp (LED type)
(5) Front fog lamp (LED type)*

Light bulb position (Side)

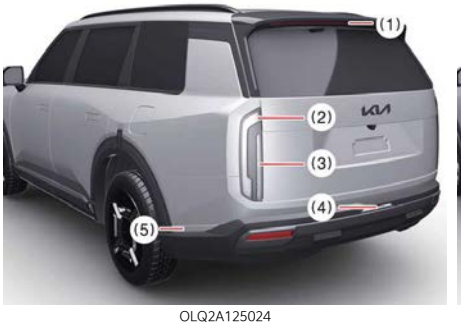


OLQ2A125026

(1) Side repeater lamp (LED type)

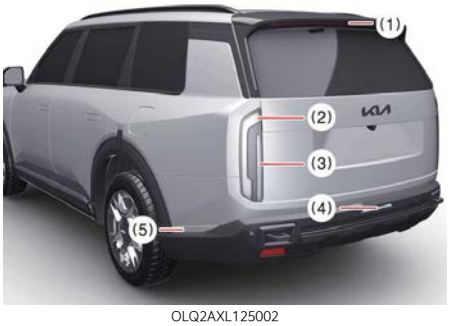
Light bulb position (Rear)

Rear combination lamp (Type A)



OLQ2A125024

Rear combination lamp (Type B)



OLQ2AXL125002

License plate lamp



OLQ2A125025

(1) High mounted stop lamp (LED type)
(2) Tail lamp/Stop lamp/Rear turn signal lamp (LED type)

(3) Tail lamp/Stop lamp/Rear turn signal lamp (LED type)
(4) Reversing lamp (LED type)
(5) Rear side marker lamp (LED type)
(6) License plate lamp (LED type)

Replacing lights (LED type)

If the LED lamp is not functioning, please have your vehicle inspected by an authorized Kia dealer. The LED lamp cannot be replaced as an individual component since it is an integrated unit. Instead, the entire LED lamp unit must be replaced.
A skilled technician should check or repair the LED lamp, for it may damage related parts of the vehicle.

NOTE

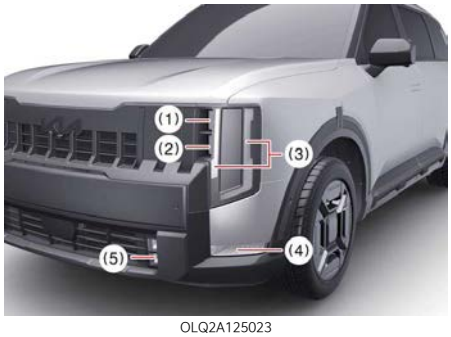
If the high-mounted stop lamp (LED) is not functioning, please have your vehicle inspected by an authorized Kia dealer. The LED lamp cannot be replaced as a single unit because it is an integrated component. Instead, the entire LED lamp unit must be replaced. It's essential to have a skilled technician check or repair the high-mounted stop lamp (LED) to prevent any damage to related vehicle parts.

Replacing front lights (LED type)

If the front lights are not functioning, please have your vehicle inspected by an authorized Kia dealer.

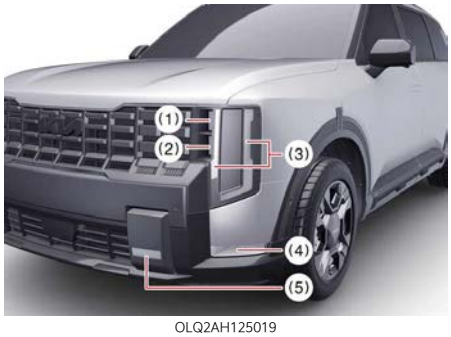
* : if equipped

Type A



OLQ2A125023

Type B



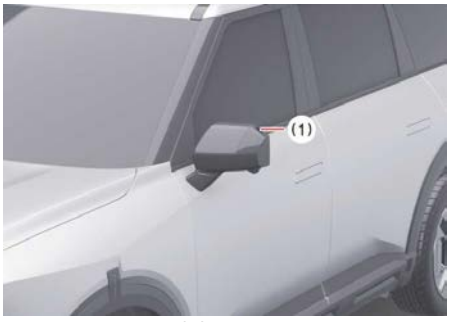
OLQ2AH125019

(1) Headlamp (Low) (LED type)
(2) Headlamp (Low/High) (LED type)
(3) Day time running light/Position lamp/Front turn signal lamp (LED type)
(4) Front side marker lamp (LED type)
(5) Front fog lamp (LED type)*

Replacing side repeater lamp (LED type)

If the side repeater lamp is not functioning, please have your vehicle inspected by an authorized

Kia dealer.



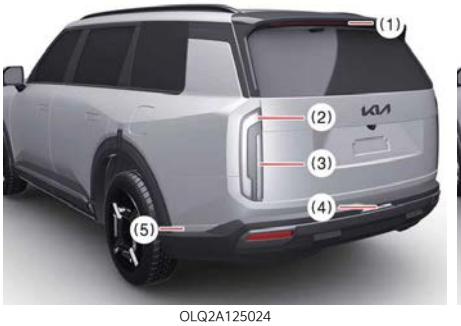
OLQ2A125026

(1) Side repeater lamp (LED type)

Replacing rear lights (LED type)

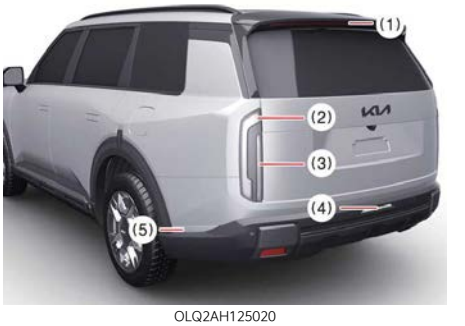
If the rear lights are not functioning, please have your vehicle inspected by an authorized Kia dealer.

Rear combination lamp (Type A)



OLQ2A125024

Rear combination lamp (Type B)



OLQ2AH125020

License plate lamp



OLQ2A125025

(1) High mounted stop lamp (LED type)
(2) Tail lamp/Stop lamp/Rear turn signal lamp (LED type)

(3) Tail lamp/Stop lamp/Rear turn signal lamp (LED type)
(4) Reversing lamp (LED type)
(5) Rear side marker lamp (LED type)
(6) License plate lamp (LED type)

Replacing interior lights (LED type)

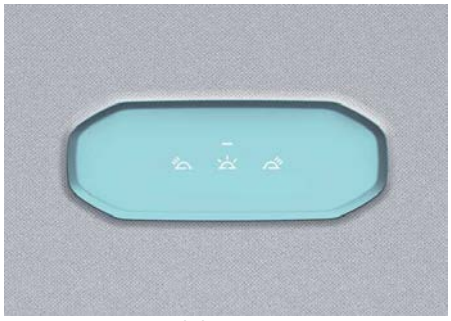
If the interior lights are not functioning, please have your vehicle inspected by an authorized Kia dealer.

Map lamp



OLQ2A125049

Room lamp (if equipped)



OLQ2A125050

Personal lamp (if equipped)



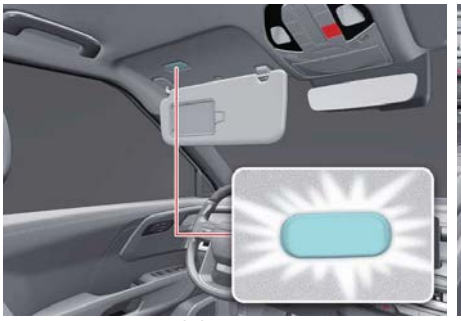
OLQ2A125051

Luggage compartment lamp



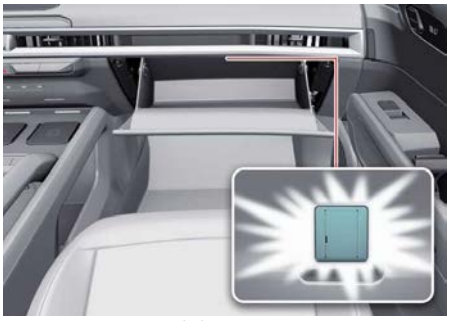
OLQ2A125052

Vanity mirror lamp



OLQ2A085008

Glove box lamp (if equipped)



OLQ2A085009

Center console storage lamp (if equipped)



OLQ2A085081

Liftgate lamp (if equipped)



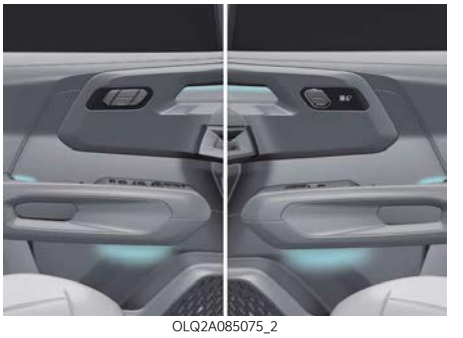
OLQ2AH085014

Ambient light - instrument panel (if equipped)



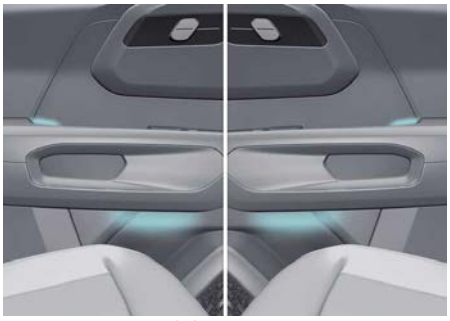
OLQ2A085068

Ambient light - Front door (if equipped)



OLQ2A085075_2

Ambient light - Rear door (if equipped)



OLQ2A085076_2

Ambient light - Center console (if equipped)



OLQ2A085087

Appearance care

Use the information in the following sections to keep the exterior and interior of your vehicle clean.

Exterior care

Use the information in the following sections to maintain the exterior of your vehicle. Keeping the exterior clean is not only aesthetically pleasing, but also helps to prolong the life of your vehicle.

Exterior general precautions

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.

NOTE

If you park your vehicle near a stainless signboard or reflective building, the plastic exterior trim (bumper, spoiler, trim, lights, outside mirror, and so on) may be damaged by reflected sunlight. To avoid damaging the plastic exterior trim, park the vehicle away from areas with reflected light or use a vehicle cover. (Depending on the vehicle, the type of exterior trim may differ.)

Finish maintenance

Washing

To help protect your vehicle's finish from rust and deterioration, wash it thoroughly with lukewarm or cold water at least once a month.
If you use your vehicle for off-road driving, wash it after each off-road trip. Take special care to remove any accumulated salt, dirt, mud, and other foreign materials. Be sure to keep the drain holes in the lower edges of the doors and rocker panels 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 of these deposits. Use a mild soap that is safe for painted surfaces.
After you wash the vehicle, rinse it thoroughly with lukewarm or cold water. Do not allow soap to dry on the finish.
After you wash the vehicle, test the brakes while driving slowly to see if they have been affected by water. If the braking performance is impaired, dry the brakes by engaging them lightly while maintaining a slow forward speed.

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.

NOTE

- 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 lights, do not clean with chemical solvents or strong detergents.

High-pressure washing

When using high-pressure washers, be sure to maintain sufficient distance from the vehicle. Insufficient distance or excessive pressure can lead to component damage or water penetration. Do not spray the camera, sensors, or their surrounding areas directly with a high-pressure washer. Shock from high-pressure water may affect these devices' operation.

Do not bring the nozzle tip close to the vehicle's boots (rubber or plastic covers) or connectors, as contact from high-pressure water may damage them.

NOTE

Wetting engine compartment

- Washing the engine compartment with water, including high-pressure washing, may cause the electrical circuits located in the engine compartment to fail.
- Never allow water or other liquids to contact electronic components or air ducts, as this may damage them.
- After you wash the vehicle, brake carefully while paying attention to the traffic conditions until the braking function is fully restored.

Waxing

Wax the vehicle when water no longer beads on the paint.
Always wash and dry the vehicle before waxing it. Use a high quality liquid or paste wax and follow the manufacturer's instructions. Wax all metal trim to protect it and maintain its luster.

Removing oil, tar, and similar materials with a spot remover usually strips the wax from the finish. Be sure to re-wax these areas, even if the rest of the vehicle does not yet need waxing.

Be careful not to touch the lens when waxing the lights.

NOTE

Drying your vehicle

- Wiping dust or dirt off the body of the vehicle with a dry cloth will scratch the finish.
- Do not use steel wool, abrasive cleaners, acid detergents, or strong detergents containing high 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.

Finish damage repair

Repair deep scratches or chips in the painted surface promptly. Exposed metal rusts quickly and may develop into a major repair expense.

NOTE

If your vehicle is damaged and requires any metal repair or replacement, be sure the body shop applies anti-corrosion materials to the parts that were repaired or replaced.

Bright metal maintenance

To remove road tar and insects, use a tar remover (not a scraper or other sharp object).

To protect the surfaces of bright metal parts from corrosion, apply a coating of wax or chrome preservative and rub it 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 another protective compound.

Underbody maintenance

Road salt and other corrosive chemicals are used in cold weather areas to melt snow and prevent ice accumulation. If you do not regularly remove these chemicals from your vehicle, they will corrode underbody and, over time, damage many parts: the fuel lines, the fuel tank retention system, the suspension, the exhaust system, and even the body frame.

The National Highway Traffic Safety Administration (NHTSA) has warned vehicle owners of all brands to take the following steps:

- Wash the underbody of your vehicle regularly during the winter and whenever your vehicle has been exposed to salts or chemicals.
- Thoroughly wash the underbody at the end of winter.
- Have your vehicle inspected for corrosion annually by a professional service technician or at a governmental inspection station.
- Have your vehicle inspected immediately if you see sighs of corrosion flaking or scaling, or if you become aware of a change in vehicle performance (such as soft or spongy brakes, fluids leaking, impairment of directional control, suspension noises, or rattling metal straps).

Aluminum wheel maintenance

The aluminum wheels are coated with a clear protective finish.

- Do not use any abrasive cleaner, polishing compound, solvent, or wire brushes on aluminum wheels. They may scratch or damage the finish.
- Clean the wheel when it is cool.
- 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 to help prevent corrosion.
- Avoid washing the wheels with high-speed vehicle wash brushes.
- Do not use any alkaline or acid detergents. They may damage and corrode aluminum wheels coated with a clear protective finish.

Corrosion protection

Protecting your vehicle from corrosion

By using the most advanced design and construction practices to combat corrosion, Kia produces vehicles of the highest quality. However, this is only part of the job. Your assistance is required to achieve long-term corrosion resistance for your vehicle.

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, abrasions, or minor scrapes and dents that 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 most common causes of accelerated corrosion are road salts, dust control chemicals, ocean air, and industrial pollution.

Moisture breeds corrosion

Corrosion is most likely to occur in moist conditions. High humidity accelerates corrosion, particularly when temperatures are just above freezing. The corrosive material stays in contact with the vehicle's surface because moisture evaporates slowly.

Mud is particularly corrosive because it dries slowly and holds moisture in contact with the vehicle. Although the mud appears to be dry, it can still retain moisture and accelerate corrosion.

High temperatures can also accelerate corrosion of parts that are not well ventilated enough to disperse the moisture. For all of 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 underbody of the vehicle.

To help prevent corrosion

You can help prevent corrosion by following these guidelines:

Keep your vehicle clean

The best way to prevent corrosion is to keep your vehicle clean and free of corrosive materials. Attention to the underbody of the vehicle is particularly important.

If you live in a high-corrosion area where road salts are used, near the ocean, or in areas with industrial pollution, acid rain, and so on, you should take extra care to prevent corrosion. In winter, hose off the underbody of your vehicle at least once a month, and be sure to clean the underbody thoroughly when winter is over.

When cleaning the underbody of the vehicle, pay particular attention to the components under the fenders and other areas that are hidden from view. Do a thorough job; just dampening the accumulated mud rather than washing it away will accelerate corrosion rather than prevent it. Water under high pressure and steam are particularly effective in removing accumulated mud and corrosive materials.

When cleaning the lower door panels, rocker panels, and frame components, be sure to keep the drain holes open so that moisture can escape instead of staying trapped inside where it can 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 enough to disperse moisture.

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 re-

duce the possibility of corrosion. If bare metal shows through, the attention of a qualified body and paint shop is recommended.
Bird droppings are highly corrosive and may damage painted surfaces in just a few hours. Always remove bird droppings as soon as possible.

Do not neglect the interior

Moisture can collect under the floor mats and carpeting and cause corrosion. Check under the mats periodically to be sure the carpeting is dry. Be particularly careful if you carry fertilizers, cleaning materials, or chemicals in the vehicle.
Only carry these materials in proper containers. Clean up any spills or leaks, then flush the carpeting with clean water and thoroughly dry it.

Interior care

Use the information in the following sections to maintain the interior of your vehicle.

Interior general precautions

Prevent chemicals such as perfume, cosmetic oil, sun cream, hand cleaner, and air freshener from contacting the interior parts of the vehicle because they may cause damage or discoloration. If these chemicals do contact the interior parts, wipe them off immediately. If necessary, use a mixture of warm water and mild non-detergent cleaner (test all cleaners on a concealed area before use).

NOTE

Electrical components
Never allow water or other liquids to contact electronic components inside the vehicle, as this may damage them.

NOTE

Leather
When cleaning leather products (such as the steering wheel or seat), use neutral detergents or solutions with low alcohol content. If you use high alcohol content solutions or acid or alkaline detergents, they may fade the color or strip the surface of the leather.

Taking care of leather seats

- Vacuum the seats periodically to remove dust and sand from them. This prevents abrasion or damage to the leather and maintains its quality.
- Wipe the leather seat cover often with a soft, dry cloth.
- Sufficient use of a leather protective may prevent abrasion of the cover and help maintain the color. Be sure to read the instructions and consult a specialist when using leather coating or protective agents.
- Light-colored leather (such as beige or cream) is more easily and visibly contaminated. Clean the seats frequently.
- Avoid wiping the leather seats with a wet cloth. It may cause the surface to crack.

Cleaning the leather seats

Remove all contaminants immediately. To remove different contaminants, refer to the following instructions:

- Cosmetic products (such as sunscreen or foundation): Apply cleaning cream on a cloth and wipe the contaminated area. Wipe off the cream with a wet cloth and remove the water with a dry cloth.
- Beverages (such as coffee or soda): Apply a small amount of neutral detergent and wipe until the contaminants do not smear.
- Oil or color transfer from blue jeans or clothes: Remove the oil or stain instantly with an absorbent cloth and wipe with stain remover (for leather only).
- Chewing gum: Harden the gum with ice and remove gradually.

Fabric seat cover (if equipped)

Clean the fabric seats regularly with a vacuum cleaner. If they are heavily soiled with stains from beverages or other sources, use a suitable interior cleaner. To prevent damage to the seat covers, use a soft sponge or microfiber cloth to wipe them down to the seams with large wiping motions. Velcro closures on clothing or sharp objects may snag or scratch the surface of the seats. Do not rub such objects against the surface.

Cleaning the upholstery and interior trim

Car interior surfaces

Remove dust and loose dirt from interior surfaces with a whisk broom or a vacuum cleaner. If necessary, clean the interior surfaces with a mixture of warm water and mild non-detergent cleaner (test all cleaners on a concealed area before use).

Fabric

Remove dust and loose dirt from the 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 stain and its color can be affected. The fire-resistant properties of fabric can be reduced if you do not properly maintain the material.

Interior wooden trim (if equipped)

Use a wooden furniture protector (for example, wax, coating compound) to clean the interior wooden trim. Sharp objects (for example, driver, knife), adhesive materials, tapes, or any strong impacts may damage the interior wooden trim.

⚠ CAUTION

- If the coating finish over the interior wooden trim is removed, moisture may damage or change wood traits.
- If the interior wooden trim is damaged, you may get a splinter from the wood surface. Have your vehicle checked by an authorized Kia dealer.

Cleaning the lap/shoulder belt webbing

Clean the webbing of the lap and shoulder belt portions of the seat belt with any mild soap solution recommended for cleaning upholstery or carpet. Follow the instructions provided with the soap. Do not bleach or redye the webbing because this may weaken it.

Cleaning the lap and shoulder belt webbing

If the interior glass surfaces fog up or are covered with an oily, greasy, or waxy film, clean them with a glass cleaner. Follow the directions on the glass cleaner container.

NOTE

Rear window

Do not scrape or scratch the inside of the rear window. This may damage the rear window defroster grid.

Emission control system

The emission control system of your vehicle is covered by a written limited warranty. See the warranty information contained in the Warranty and Consumer Information manual in your vehicle.

Your vehicle is equipped with an emission control system to meet all applicable emission regulations. There are 3 emission control systems:

1. Crankcase emission control system
2. Evaporative emission control system
3. Exhaust emission control system

To ensure proper function of the emission control systems, have your vehicle inspected and maintained by an authorized Kia dealer according to the maintenance schedule in this manual.

Caution for the Inspection and Maintenance Test (with Electronic Stability Control (ESC) system)

- **To prevent the vehicle from misfiring during dynamometer testing, turn OFF the ESC system by pressing the ESC switch.**
- **After dynamometer testing is completed, turn the ESC back on by pressing the ESC switch again.**

1. Crankcase emission control system

The Positive Crankcase Ventilation (PCV) system prevents air pollution caused by the crankcase emitting blow-by gases. 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 (including Onboard Refueling Vapor Recovery (ORVR)) system

The ORVR system prevents fuel vapors from escaping into the atmosphere. The ORVR system loads the vapors from the fuel tank into a canister while you refuel the vehicle at a gas station, preventing the escape of fuel vapors into the atmosphere.

Canister

The onboard canister absorbs and stores fuel vapors generated inside the fuel tank. When the engine is running, the fuel vapors absorbed in the canister are drawn into the surge tank through the Purge Control Solenoid Valve (PCSV).

PCSV

The Engine Control Module (ECM) controls the PCSV. When the engine coolant temperature is low while you are idling, the PCSV closes so that evaporated fuel is not drawn into the engine. After the engine warms up while you drive, 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 that controls exhaust emissions while maintaining good vehicle performance.

Vehicle modifications

This vehicle should not be modified. Modification of your vehicle could affect its performance, safety, or durability, and may even violate governmental safety and emissions regulations. Damage or performance problems resulting from modifications may not be covered under your warranty.
If you use unauthorized electronic devices, they may cause abnormal vehicle operation, wire damage, battery discharge, and fire. For your safety, do not use unauthorized electronic devices.

Engine exhaust gas precautions (carbon monoxide)

- Carbon monoxide (CO) can be present with other exhaust fumes. If you smell exhaust fumes inside your vehicle, have it inspected and have the issue repaired immediately. If you suspect exhaust fumes are entering your vehicle, only drive it with all of the windows fully open. Have your vehicle inspected and repaired immediately by an authorized Kia dealer.

⚠ WARNING

Exhaust
Engine exhaust gases contain CO. Though colorless and odorless, CO is dangerous and could be lethal if inhaled. Follow the instructions in this section to avoid CO poisoning.

- Do not operate the engine in a confined or enclosed area (such as a garage) more than necessary to move your vehicle in or out of the area.
- When you stop your vehicle in an open area for more than a short period of time with the engine running, adjust the ventilation system as needed to draw in outside air.
- Never sit in a parked or stopped vehicle for any extended period of time with the engine running.
- If the engine stalls or fails to start, excessive attempts to restart it may damage the emission control system.

Operating precautions for catalytic converters

⚠ WARNING

Catalytic converter
Keep away from the catalytic converter and exhaust system while the vehicle is running or immediately thereafter. The exhaust and catalytic systems are very hot and may burn you.

⚠ WARNING

Fire
- Do not park, idle, or drive the vehicle over or near flammable objects, such as grass, vegetation, paper, leaves, and so on. A hot exhaust system can ignite flammable items under your vehicle.
- 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. Doing so may present a fire risk under certain conditions.

Your vehicle is equipped with a catalytic converter emission control device.
Take the following precautions:
- Use only UNLEADED FUEL for gasoline engines.

- Do not operate your 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 ignition OFF and descending steep grades in gear with the ignition OFF.
- Do not operate the engine at high idle speeds for extended periods of time (5 minutes or more).
- Do not modify or tamper with any part of the engine or emission control system. All inspections and adjustments must be made by an authorized Kia dealer.
- Avoid driving with an extremely low fuel level. Running out of fuel could cause the engine to misfire, damaging the catalytic converter.

Failure to observe these precautions could result in damage to the catalytic converter and to your vehicle. This could void your warranty.

Gasoline Particulate Filter (GPF) (if equipped)

The Gasoline Particulate Filter (GPF) is the system that removes the soot from the exhaust gas. Unlike a disposable air filter, the GPF system automatically burns (oxidizes) and removes the accumulated soot while driving.
However, repeated short-distance driving or long-distance driving at a low speed can stop the accumulated soot from automatically being removed by the GPF system. If the accumulated soot reaches a certain amount, the GPF warning light () will appear. To re-operate the GPF system, the vehicle should be driven for more than 30 minutes at a speed of 50 mph (80 km/h) and faster. Ensure the following conditions are met: safe road conditions, 3rd gear or above, and engine speed of 1,500-4,000 rpm. Driving at 50 mph (80 km/h) or faster for recommended hours will get the GPF system back to work and stop the GPF warning light.

If the GPF warning light stays on or **Check exhaust system** message appears in spite of the procedure, visit an authorized Kia dealer. Constant driving with the GPF warning light on can damage the GPF system and undermine fuel economy.

Consumer info

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Reporting Safety Defects (U.S. only) 788
Online factory authorized manuals (U.S. only) 788

Consumer info

California perchlorate notice

Perchlorate Material-special handling may apply, See https://dtsc.ca.gov/perchlorate.
Notice to California Vehicle Dismantlers: Perchlorate containing materials, such as air bag inflators, seatbelt pre-tensioners and keyless remote entry batteries, must be disposed of according to Title 22 California Code of Regulations Section 67384.10 (a).

Consumer Assistance (U.S. only)

Roadside Assistance is provided with all new current model year Kia vehicles from the date the vehicle is delivered to its first retail buyer or otherwise put into use (in-service date), whichever is earlier, for a period of 60 months or 60,000 miles, whichever is earlier, subject to the terms, conditions, and exclusions set forth in the Kia Warranty and Consumer Information Manual applicable to your vehicle's model year.

Kia America, Inc. reserves the right to limit or deny services or other benefits to any owner or driver when, in Kia America, Inc.'s judgment, the claims or service requests are excessive in frequency or type of occurrence.

Toll free consumer assistance

Toll free consumer assistance is available from 5:00 AM to 6:00 PM PST Monday through Friday. Call 1-800-333-4542 to access toll free consumer assistance.
For more information regarding available assistance, refer to your Kia Warranty and Consumer Information Manual.

Emergency roadside assistance

Emergency roadside assistance is available 24 hours a day, 365 days a year and is accessible by calling 1-800-333-4542 or pressing the RSA button (if enrolled in Kia Connect).
You must provide your Vehicle Identification Number (VIN) to verify coverage when you call. Find your VIN on the driver side of the instrument panel, the door jamb, your vehicle registration, or your proof of insurance card.
Kia utilizes a network of over 30,000 roadside assistance providers. Should you accidentally run out of fuel, require a battery jump, or need help changing a tire, a Kia Roadside Assistance Representative will dispatch someone to deliver a small quantity of gas, change a flat tire with your inflated spare, or arrange a battery jump to allow you to proceed to your destination. We also have access to a network of over 10,000 locksmiths should you be locked out of your vehicle.
If mechanical difficulty renders your vehicle undrivable due to a warranty related concern, Kia's Roadside Assistance Representative will arrange to transport your vehicle to the nearest Kia dealer or an authorized Kia alternative service location. To receive this service, your vehicle must be accessible to the dispatched transport vehicle, as determined by its driver.

> **TIP**
>
> Roadside Assistance benefits are not available for any Kia vehicle that has ever been or should have been issued a "salvage" title or similar "branded" title under any state's law or has been declared a "total loss" or equivalent by a financial institution or insurance company.

Trip interruption

Trip interruption expense benefits are provided if a warranty-related disablement occurs more than 150 miles from your home, and the repairs require more than 24 hours to complete. Reasonable reimbursement is included for meals, lodging, or rental vehicle expenses. Trip interruption coverage is limited to $100 per day subject to a 3-day maximum limit per incident. You must contact the Kia Roadside Assistance Center to obtain preauthorization of expenses. Once the Kia Roadside Assistance Center gives authorization for trip interruption benefits, they will assist you in making the necessary arrangements. Insurance deductibles, expenses, and claims paid by your insurance company or other providers are not eligible for reimbursement.

Fleet vehicles are excluded from reimbursement under Kia's Trip Interruption Policy.

Registering your vehicle in a foreign country

If you plan to register your vehicle in a foreign country, make sure it conforms to the regulations in that country. Even if you successfully register your vehicle in a foreign country, consider the possibility of having to deal with the following problems:

1. The specified fuel for your vehicle may be unavailable. Using other fuels could cause damage to the engine, fuel injection system, and other fuel related parts, which may not be covered under your New Vehicle Emissions Limited Warranty.
2. In addition to the specified fuel, you may also find that the parts, service techniques, and tools necessary to maintain and repair your vehicle may be unavailable because vehicles like yours may not be marketed in the new country of registration. Even if vehicles like yours are sold in a foreign country, mechanical specifications required by the government may vary enough from the country of purchase to cause additional problems.
3. There may not be an authorized Kia dealer local to where you plan to register your vehicle, which can cause trouble in obtaining services for any number of reasons.

Kia America, Inc. cannot assume any responsibility for problems caused by unsatisfactory service or lack of service outside of the United States.

Electrical Equipment (U.S. only)

The electrical system of your vehicle performs under all reasonably expected operating conditions.

Before installing any additional electrical equipment in your vehicle, consult an authorized Kia dealer to make sure you don't void your warranty.

Certain electrical equipment, or the way it is installed, may adversely affect vehicle operation (including systems such as engine control system, audio, and electrical charging) and potentially void all or part of your warranty.

Kia America, Inc. assumes no responsibility for any expense you may incur or any malfunction of your vehicle, its components, or its systems resulting from the installation of additional electrical equipment that is not supplied or recommended for installation by Kia.

Installation of a mobile two-way radio system

Improper installation of a mobile two-way radio system or installation of an excessively powerful mobile two-way radio system may adversely affect other electronic systems. To avoid damaging your vehicle, consult an authorized Kia dealer on proper equipment and installation.

Kia vehicles are designed and manufactured to meet or exceed all applicable Motor Vehicle Safety Standards (FMVSS).

Read and follow all directions in this owner's manual, particularly information under the headings "NOTICE," "CAUTION," and "WARNING."

If you have any questions regarding the operation of your vehicle, safety issues, or defects after reading this manual, please contact Kia's toll free Consumer Assistance hot line:

National Consumer Affairs Manager
Kia America, Inc.
P.O. Box 52410
Irvine, CA 92619-2410
1-800-333-4542

Reporting Safety Defects (U.S. only)

If you believe that your vehicle has a defect which could cause a crash or could cause injury or death, you should immediately inform the National Highway Traffic Safety Administration (NHTSA) in addition to notifying Kia America, Inc..

If NHTSA receives similar complaints, it may open an investigation, and if it finds that a safety defect exists in a group of vehicles, it may order a recall and remedy campaign. However, NHTSA cannot become involved in individual problems between you, your dealer, or Kia America, Inc..
To contact NHTSA, you may call the Vehicle Safety Hotline toll-free at 1-888-327-4236 (TTY: 1-888-275-9171); go to http://www.NHTSA.gov; download the SaferCar mobile application; or write to: Administrator, NHTSA, 1200 New Jersey Ave, SE., West Building, Washington, DC 20590.
You can also obtain other information about motor vehicle safety from http://www.NHTSA.gov.

Online factory authorized manuals (U.S. only)

The following publications are available at www.KiaTechinfo.com:

Service manual

This manual covers maintenance and recommended procedures for repairing engine and chassis components. This manual is written for the journeyman mechanic, but is simple enough for most mechanically inclined owners to understand.

Electrical troubleshooting manual

This manual is a companion to the Service Manual and provides in-depth troubleshooting information for each electrical circuit in your vehicle.

Owner's manual

This manual describes the safety features, overall features, and operating procedures of your vehicle.

Abbreviation

ABS
Anti-lock Brake System

ACC
Accessory

ACU
Airbag Control Unit

ALR
Automatic Locking Retractor

BAS
Brake Assistant System

BCA
Blind-Spot Collision-Avoidance Assist

BCW
Blind-Spot Collision Warning

BVM
Blind-Spot View Monitor

CC
Cruise Control

CD
Charge Depleting

CRS
Child Restraint System

CS
Charge Sustaining

CSC
Crosswind Stability Control

DAW
Driver Attention Warning

DBC
Downhill Brake Control

DCM
Digital Center Mirror

DCT
Dual Clutch Transmission

DPF
Diesel Particulate Filter

DRL
Daytime Running Light

DRVM
Driving Rear View Monitor

EBD
Electronic Brake force Distribution

ECM
Electronic Chromic Mirror

ELR
Emergency Locking Retractor

EPB
Electronic Parking Brake

ESC
Electronic Stability Control

ESS
Emergency Stop Signal

ETCS
Electronic Toll Collection System

FCA
Forward Collision-Avoidance Assist

HAC
Hill-start Assist Control

HBA
High Beam Assist

HDA
Highway Driving Assist

HID
High-Intensity Discharge

HMSL
High Mounted Stop Lamp

HUD
Head-Up Display

IC/JC
Interchange/Junction

ICCB

In-Cable Control Box

ISG

Idle Stop and Go

ISLA

Intelligent Speed Limit Assist

LATCH

Lower Anchors and Tether for Children

LFA

Lane Following Assist

LKA

Lane Keeping Assist

MCB

Multi-Collision Brake

MDPS

Motor Driven Power Steering

MIL

Malfunction Indicator Lamp

MSLA

Manual Speed Limit Assist

NFC

Near Field Communication

NSCC

Navigation-based Smart Cruise Control

ODS

Occupant Detection System

PCA-R

Reverse Parking Collision-Avoidance Assist

PCA-F/R

Forward/Reverse Parking Collision-Avoidance Assist

PCA-F/S/R

Forward/Side/Reverse Parking Collision-Avoidance Assist

PDW-R

Reverse Parking Distance Warning

PDW-F/R

Forward/Reverse Parking Distance Warning

PDW-F/S/R

Forward/Side/Reverse Parking Distance Warning

RCCA

Rear Cross-Traffic Collision-Avoidance Assist

RCCW

Rear Cross-Traffic Collision Warning

RSPA

Remote Smart Parking Assist

RVM

Rear View Monitor

SBW

Shift-by-wire

SCC

Smart Cruise Control

SCR

Selective Catalytic Reduction

SEA

Safe Exit Assist

SEW

Safe Exit Warning

SRS

Supplemental Restraint System

SRSCM

SRS Control Module

SVM

Surround View Monitor

TBT

Turn By Turn

TCI

Turbo Charger Intercooler

TCS

Traction Control System

TIN

Tire Identification Number

T-GDI

Turbocharger Gasoline Direct Injection

TMK

Tire Mobility Kit

TPMS

Tire Pressure Monitoring System

TSA

Trailer Stability Assist

UWB

Ultra Wide Band

VIN

Vehicle Identification Number

VESS

Virtual Engine Sound System

VOCs

Volatile Organic Compounds

VSM

Vehicle Stability Management

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