

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 Motors is dedicated to providing you with a customer service experience that exceeds your expectations.

If technical assistance is needed on your vehicle, authorized Kia dealerships factorytrained technicians, recommended special tools, and genuine Kia replacement parts.

This Owner's Manual will acquaint you with the operation of features and equipment that are either standa rd or optional on this vehicle, along with the maintenance needs of this vehicle. Therefore, you may find some descriptions and illustrations not applicable to your vehicle. You are advised to read this publication carefully and follow the instructions and recommendations. Please always keep this manual in the vehicle for your, and any subsequent owner's, reference.

All information contained in this Owner's Manual was accurate at the time of publication. However, 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 to help you get the greatest possible driving pleasure from your vehicle. Your Owner's Manual can assist you in many ways.

We strongly recommend that you read the entire manual. In order to minimize the chance of death or injury, you must read the WARNING and CAUTION sections in the manual.

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

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

Chapters: This manual has nine chapters plus an index. Each chapter begins with a brief list of contents so you can tell at a glance if that chapter has the information you want. You will find various WARNINGs, CAUTIONs, and NOTICEs in this manual. These WARNINGs were prepared to enhance your personal safety. You should carefully read and follow ALL procedures and recommendations provided in these WARNINGs, CAUTIONs and NOTICEs.

A WARNING

A WARNING indicates a situation in which harm, serious bodily injury or death could result if the warning is ignored.

A CAUTION

A CAUTION indicates a situation in which damage to your vehicle could result if the caution is ignored.

* NOTICE

A NOTICE indicates interesting or helpful information is being provided.

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INTRODUCTION

Fuel requirements

Gasoline engine

Unleaded

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

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

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

▲ CAUTION

NEVER USE LEADED FUEL. The use of leaded fuel is detrimental to the catalytic converter and will damage the engine control system's oxygen sensor and affect emission control. (if equipped) Never add any fuel system cleaning

agents to the fuel tank other than what has been specified. (Kia recommends to consult an authorized Kia dealer/service partner for details.) (if equipped)

A WARNING

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

Leaded (if equipped)

For some countries, your vehicle is designed to use leaded gasoline. When you are going to use leaded gasoline, Kia recommends to visit an authorized Kia dealer/service partner and ask whether leaded gasoline in your vehicle is available or not.

Octane Rating of leaded gasoline is same with unleaded one.

Gasoline containing alcohol and methanol

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

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

Discontinue using gasohol of any kind if drivability problems occur.

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

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

A CAUTION

Never use gasohol which contains methanol. Discontinue use of any gasohol product which impairs drivability. (if equipped)

Other fuel

Using fuels such as

- · Silicone (Si) contained fuel,
- MMT (Manganese, Mn) contained fuel,
- Ferrocene (Fe) contained fuel, and
- Other metallic additives contained fuels,

may cause vehicle and engine damage or cause plugging, misfiring, poor acceleration, engine stalling, catalyst melting, abnormal corrosion, life cycle reduction, etc.

Also, the Malfunction Indicator Lamp (MIL) may illuminate.

* NOTICE

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

Use of MTBE

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

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

A CAUTION



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

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

For customers who do not use good quality gasolines including fuel additives regularly, and have problems starting or the engine does not run smoothly, one bottle of additives should be added to the fuel tank at every 15,000km (For Europe) / 10,000km (Except Europe). Additives are available from a professional workshop along with information on how to use them. Kia recommends to visit an authorized Kia dealer/service partner. Do not mix other additives.

Operation in foreign countries

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

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

Diesel engine

Diesel fuel

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

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

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

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

A CAUTION

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

A CAUTION

Diesel Fuel (if equipped with DPF)

It is recommended to use the regulated automotive diesel fuel for diesel vehicle equipped with the DPF system. (if equipped) If you use diesel fuel including high sulfur (more than 50 ppm sulfur) and unspecified additives, it can cause the DPF system to be damaged and white smoke can be emitted. (if equipped)

Biodiesel

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

A CAUTION

- Never use any fuel, whether diesel or B7 biodiesel or otherwise, that fails to meet the latest petroleum industry specification. (if equipped)
- Never use any fuel additives or treatments that are not

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recommended or approved by the vehicle manufacturer. (if equipped)

Vehicle modifications

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

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

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

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Vehicle break-in process

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

- Do not race the engine.
- While driving, keep your engine speed (rpm, or revolutions per minute) within 3,000 rpm.
- Do not maintain a single speed for long periods of time, either fast or slow.Varying engine speed is needed to properly break-in the engine.
- Avoid hard stops, except in emergencies, to allow the brakes to seat properly.
- Don't tow a trailer during the first 2,000 km (1,200 miles) of operation.

Risk of burns when parking or stopping vehicle

- Do not park or stop the vehicle near flammable items such as leaves, paper, oil, and tire. Such items placed near the exhaust system can become a fire hazard.
- When an engine idles at a high speed with the rear side of the vehicle touching the wall, heat of the exhaust gas can cause discoloration or fire. Keep enough space between the rear part of the vehicle and the wall.
- Be sure not to touch the exhaust/ catalytic systems while engine is running or right after the engine is turned off. There is a risk of burns since the systems are extremely hot.

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YOUR VEHICLE AT A GLANCE

Exterior overview

Front view (Type A)



* The actual shape may differ from the illustration	۱.
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4-36
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Front view (Type B)

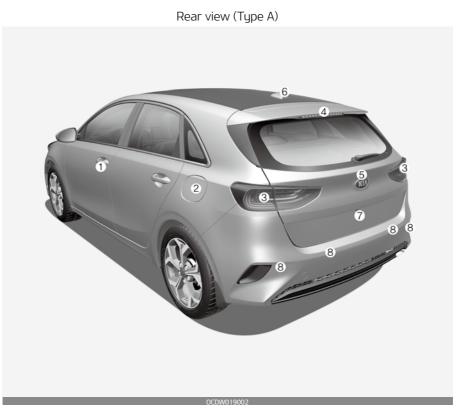


* The actual shape may differ from the illustration.

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Front fog lamp (Maintenance)

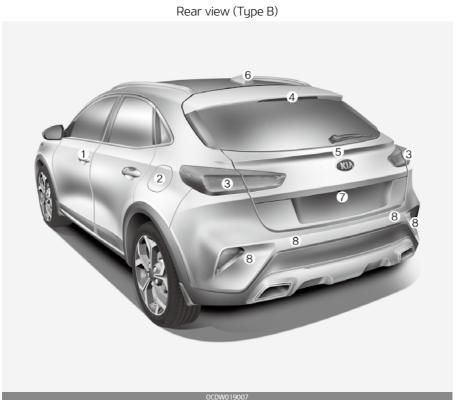
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* The actual shape may differ from the illustration.

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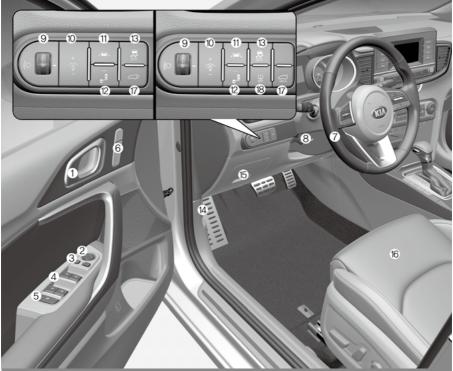


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1. Door locks	4-19
2. Fuel filler door	4-44
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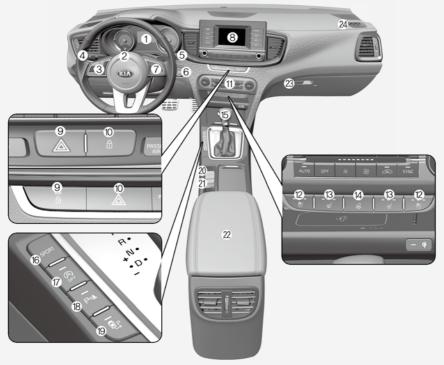


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* : if equipped

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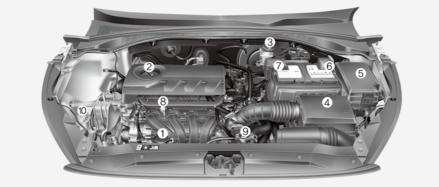
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Engine compartment



Kappa 1.0L T-GDI Engine (Gasoline)

Kappa 1.4L MPI Engine (Gasoline)



OCD078079

* The actual engine cover in the vehicle may differ from the illustration.

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3. Brake/clutch fluid reservoir	8-43
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5. Fuse box	8-67
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7. Positive battery terminal	7-6, 8-53
8. Engine oil dipstick	8-35
9. Radiator cap	7-8, 8-39
10. Windshield washer fluid reservoir	8-45

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Kappa 1.4L T-GDI Engine (Gasoline)

Gamma 1.6L MPI Engine (Gasoline)



OCD07808⁻

* The actual engine cover in the vehicle may differ from the illustration.

1. Engine coolant reservoir	8-39
2. Engine oil filler cap	8-35
3. Brake/clutch fluid reservoir	8-43
4. Air cleaner	8-47
5. Fuse box	8-67
6. Negative battery terminal	7-6, 8-53
7. Positive battery terminal	7-6, 8-53
8. Engine oil dipstick	8-35
9. Radiator cap	7-8, 8-39
10. Windshield washer fluid reservoir	8-45

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Gamma 1.6L T-GDI Engine (Gasoline)

SmartStream D 1.6 Engine (Diesel)



* The actual engine cover in the vehicle may differ from the illustration.

1. Engine coolant reservoir	8-39
2. Engine oil filler cap	8-35, 8-38
3. Brake/clutch fluid reservoir	8-43
4. Air cleaner	8-47
5. Fuse box	8-67
6. Negative battery terminal	7-6, 8-53
7. Positive battery terminal	7-6, 8-53
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10. Windshield washer fluid reservoir	8-45

Safety features of your vehicle 3

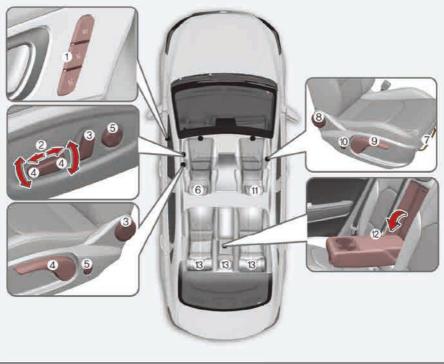
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3 Safety features of your vehicle

SAFETY FEATURES OF YOUR VEHICLE

For the safety of the driver and vehicle passengers, you should become familiar with the vehicle's safety features.

Seats



OCDW039001

* The actual seats in the vehicle may differ from the illustration.

Driver's seat

- 1. Driver position memory system*
- 2. Forward and backward
- 3. Seatback angle
- 4. Seat cushion height
- 5. Lumbar support*
- 6. Headrest

3

3 _____

Front passenger's seat

7. Forward and backward8. Seatback angle9. Seat cushion height10. Lumbar support*11. Headrest

Rear seat

12. Armrest*

13. Headrest

* : if equipped

A 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.

WARNING

Uprighting seat

When you return the seatback to its upright position, hold the seatback and return it slowly and be sure there are no other occupants around the seat. If the seatback is returned without being held and controlled, the back of the seat could spring forward resulting in accidental injury to a person struck by the seatback.

WARNING

Driver responsibility for passengers

Riding in a vehicle with the seatback reclined could lead to serious or fatal injury in an accident. If a seat is reclined during an accident, the occupant's hips may slide under the lap portion of the seat belt, applying great force to the unprotected abdomen. Serious or fatal internal injuries could result. The driver must advise the passenger to keep the seatback in an upright position whenever the vehicle is in motion.

A WARNING

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

A WARNING

Driver's seat

- Never attempt to adjust the seat while the vehicle is moving. This could result in loss of control, and an accident causing death, serious injury, or property damage.
- Do not allow anything to interfere with the normal position of the seatback. Storing items against a seatback or in any other way interfering with proper locking of a seatback could result in serious

or fatal injury in a sudden stop or collision.

- Always drive and ride with your seatback upright and the lap portion of the seat belt snug and low across the hips. This is the best position to protect you in case of an accident.
- In order to avoid unnecessary and perhaps severe air bag injuries, always sit as far back as possible from the steering wheel while maintaining comfortable control of the vehicle. We recommend that your chest is at least 250 mm (10 inches) away from the steering wheel.

WARNING

Rear seatbacks

- The rear seatback must be securely latched. If not, passengers and objects could be thrown forward resulting in serious injury or death in the event of a sudden stop or collision.
- Luggage and other cargo should be laid flat in the cargo area. If objects are large, heavy, or must be piled, they must be secured. Under no circumstances should cargo be piled higher than the seatbacks. Failure to follow these warnings could result in serious injury or death in the event of a sudden stop, collision or rollover.

- No passenger should ride in the cargo area or sit or lie on folded seatbacks while the vehicle is moving. All passengers must be properly seated in seats and restrained properly while riding.
- When resetting the seatback to the upright position, make sure it is securely latched by pushing it forward and backwards.
- To avoid the possibility of burns, do not remove the carpet in the cargo area. Emission control devices beneath this floor generate high temperatures.

WARNING

After adjusting the seat, always check that it is securely locked into place by attempting to move the seat forward or backward without using the lock release lever. Sudden or unexpected movement of the driver's seat could cause you to lose control of the vehicle resulting in an accident.

WARNING

- Use extreme caution so that hands or other objects are not caught in the seat mechanisms while the seat is moving.
- Do not put a cigarette lighter on the floor or seat. When you operate the seat, gas may gush out of the lighter and cause fire.

- If there are occupants in the rear seats, be careful while adjusting the front seat position.
- Use extreme caution when picking small objects trapped under the seats or between the seat and the center console. Your hands might be cut or injured by the sharp edges of the seat mechanism.

pocket may damage the seat fabric.

- Make sure not to wet the seat. It may change the nature of natural leather.
- Jeans or clothes which could bleach may contaminate the surface of the seat covering fabric.

Feature of Seat Leather

- Leather is made from the outer skin of an animal, which goes through a special process to be available for use. Since it is a natural substance, each part differs in thickness or density.
 Wrinkles may appear as a natural result of stretching and shrinking depending on the temperature and humidity.
- The seat is made of stretchable fabric to improve comfort.
- The parts contacting the body are curved and the side supporting area is high which provides driving comfort and stability.
- Wrinkles may appear naturally from usage. It is not a fault of the product.

- Wrinkles or abrasions which appear naturally from usage are not covered by warranty.
- Belts with metallic accessories, zippers or keys inside the back

Front seat adjustment – manual

Forward and backward

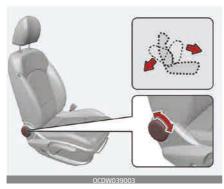


To move the seat forward or backward:

- 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.

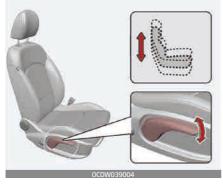
Adjust the seat before driving, and make sure the seat is locked securely by trying to move forward and rearward without using the lever. If the seat moves, it is not locked properly.

Seatback angle



• Turn the control knob forward or rearward to move the seatback to the desired angle.

Seat cushion height (if equipped)

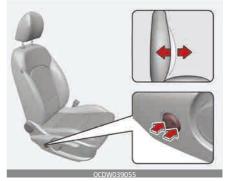


To change the height of the seat cushion, push the lever that is located on the outside of the seat cushion upwards or downwards.

• To lower the seat cushion, push the lever down several times.

• To raise the seat cushion, pull the lever up several times.

Lumbar support (if equipped)



The lumbar support can be adjusted 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.

Front seat adjustment - power (if equipped)

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

A WARNING

The power seat is operable with the ignition OFF.

Therefore, children should never be left unattended in the vehicle.

A CAUTION



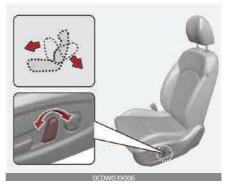
- The power seat is driven by an electric motor. Stop operating once the adjustment is completed. Excessive operation may damage the electrical equipment.
- When in operation, the power seat consumes a large amount of electrical power. To prevent unnecessary charging system drain, don't adjust the power seat longer than necessary while the engine is not running.
- Do not operate two or more power seat control switches at the same time. Doing so may result in power seat motor or electrical component malfunction.

Forward and backward (if equipped)



• Push the control switch forward or rearward to move the seat to the desired position. Release the switch once the seat reaches the desired position.

Seatback angle



- Push the control switch forward or rearward to move the seatback to the desired angle.
- Release the switch once the seat reaches the desired position.

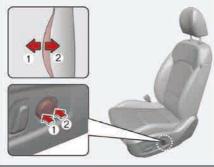
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Seat height



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

Lumbar support (if equipped)



OCDW039008

The lumbar support can be adjusted 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.

Driver position memory system (if equipped, for power seat)



A driver position memory system is provided to store and recall the driver seat position with a simple button operation. By saving the desired position into the system memory, different drivers can reposition the driver seat based upon their driving preference. If the battery is disconnected, the position memory will be erased and the driving position should be restored in the system.

A WARNING

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

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

Storing positions into memory using the buttons on the door

Storing driver's seat positions

- Shift the shift lever into P or N (for Dual clutch transmission and Automatic transmission) or Neutral (for Manual transmission) while the ENGINE START/STOP button is ON or ignition switch ON.
- 2. Adjust the driver's seat comfortable for the driver.
- 3. Press SET button on the control panel. The system will beep once.
- 4. Press one of the memory buttons (1 or 2) within 4 seconds after pressing the SET button. The system will beep twice when memory has been successfully stored.

Recalling positions from memory

- Shift the shift lever into P or N (for Dual clutch transmission and Automatic transmission) or Neutral (for Manual transmission) while the ENGINE START/STOP button is ON or ignition switch ON.
- 2. To recall the position in the memory, press the desired memory button (1 or 2). The system will beep once, then the

driver's seat will automatically adjust to the stored position.

Adjusting the control switch for the driver's seat while the system is recalling the stored position will cause the movement to stop and move in the direction that the control switch is moved.

A WARNING

Use caution when recalling the adjustment memory while sitting in the vehicle. Push the seat position control switch to the desired position immediately if the seat moves too far in any direction.

Initializing Driver position memory system

Initialize Driver position memory system as follows if the system fails to function properly.

Initialization method

- Have the vehicle completely stopped, the ignition [ON], and the shift lever placed into P (Parking). Afterwards, open the door on driver's side.
- 2. Using the control switches for forward or backward and seatback angle, pull the seat forward to the fullest and the seatback upright forward to the fullest.

3. Press both [SET] button and the forward movement control switch at the same time for two seconds.

Initialization process

- 1. The alarm sounds and the initialization process starts.
- The driver seat and its seatback automatically move backward. The alarm continues to sound during the movement.
- 3. The seat and seatback move to the center and the alarm sounds and the initialization is completed.

In the following cases, however, the initialization process and the alarming sound come to a stop.

- When Driving position memory system button is pressed
- When the control switches for driver's seat are pressed
- When the shift lever was displaced from [P] to another position
- When vehicle is ran at the speed of 3km/h or faster
- When the door on the driver's side is closed

A WARNING

- Re-start initialization if the alarming sound or initialization stop while the initialization is in process.
- Make sure that nothing blocks the place near the driver seat before initializing Driver position memory system.

 Once initialization is completed, make sure to adjust the seat to the driver's preferences and remember the driving position.

Easy access function (if equipped)

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

- Without smart key system
 - It will move the driver's seat rearward when the ignition key is removed and front driver's door is opened.
 - It will move the driver's seat forward when the ignition key is inserted.
- With smart key system
 - It will move the driver's seat rearward when the ENGINE START/STOP button is changed to the OFF position and front driver's door is opened.
 - It will move the driver's seat forward when the ENGINE START/STOP button is changed to the ACC or START position.

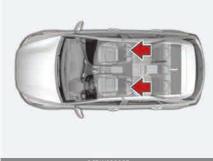
You can activate or deactivate this feature. Refer to "User settings mode" on page 4-75.

* NOTICE

If there's not enough room between the driver seat and the rear seat or if the passenger is sitting right

behind the driver seat, the driver seat can fail to move backward.

Headrest - For front seat



OCDW039065

The driver's and front passenger's seats are equipped with a headrest for the occupant's safety and comfort.

The headrest not only provides comfort for the driver and front passenger, but also helps to protect the head and neck in the event of a collision.

A WARNING

 For maximum effectiveness in case of an accident, the headrest should be adjusted so the middle of the headrest is at the same height as the center of gravity of an occupant's head.

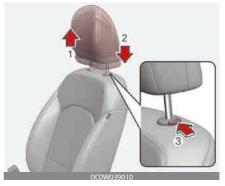
Generally, the center of gravity of most people's head is similar with the height of the top of their eyes. Also, adjust the headrest as close to your head as possible. For this reason, the use of a cushion that holds the body away from the seatback is not recommended.

- Do not operate the vehicle with the headrests removed or reversed as severe injury to the occupants may occur in the event of an accident. Headrests may provide protection against neck injuries when properly adjusted.
- Do not adjust the headrest position of the driver's seat while the vehicle is in motion.

A CAUTION

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

Adjusting the height up and down



• To raise the headrest, pull it up to the desired position (1).

 To lower (2) the headrest, push and hold the release button (3) on the headrest support and lower the headrest to the desired position.



A CAUTION

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

Removal and installation

Type A



Type B



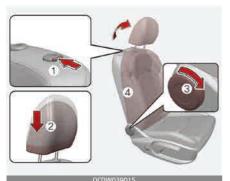
To remove the headrest:

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

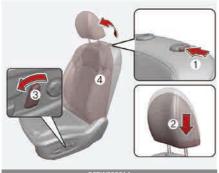
A WARNING

A gap between the seat and the headrest release button may appear when seating on the seat or when you push or pull the seat. Be careful not to get your finger, etc. caught in the gap.

Type A



Type B



0CDW039014

To reinstall the headrest:

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

A WARNING

A gap between the seat and the headrest release button may appear when seating on the seat or when you push or pull the seat. Be careful not to get your finger, etc. caught in the gap.

Forward and backward adjustment (for front seat)



The headrest may be adjusted forward to 4 different positions by pulling the headrest forward to the desired detent.

 To adjust the headrest to it's furthest backwards position, pull it fully forward to the farthest position and release it. Adjust the headrest so that it properly supports the head and neck.

A WARNING

A gap between the seat and the headrest release button may appear when seating on the seat or when you push or pull the seat. Be careful not to get your finger, etc. caught in the gap.

Seatback pocket (if equipped)



The seatback pocket is provided on the back of the front passenger's and driver's seatbacks.

A WARNING



Seatback pockets

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

Rear seat adjustment





The rear seat is equipped with headrests for the occupant's safety and comfort.

The headrest not only provides comfort for passengers, but also helps to protect the head and neck in the event of a collision.

A WARNING

- For maximum effectiveness in case of an accident, the headrest should be adjusted so the middle of the headrest is at the same height as the center of gravity of an occupant's head. Generally, the center of gravity of most people's head is similar with the height of the top of their eyes. Also adjust the headrest as close to your head as possible. For this reason, the use of a cushion that holds the body away from the seatback is not recommended.
- Do not operate the vehicle with the headrests removed or reversed. Severe injury to an occupant may occur in the event of an accident. Headrests may provide protection against severe neck injuries when properly adjusted.

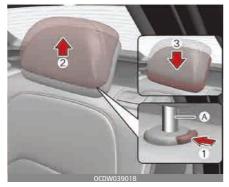
Adjusting the height up and down



To raise the headrest,

• Pull it up to the desired position (1). To lower the headrest, push and hold the release button (2) on the headrest support and lower the headrest to the desired position (3).

Removal and installation



- To remove the headrest, raise it as far as it can go then press the release button (1) while pulling upward (2).
- To reinstall the headrest, put the headrest poles (A) into the holes

(3) while pressing the release button (1). Then adjust it to the appropriate height.

A WARNING

Make sure the headrest locks in position after adjusting it to properly protect the occupants.

Armrest (if equipped)



To use the armrest,

• Pull it forward from the seatback.

Folding the rear seat

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

▲ WARNING

The purpose of the fold-down rear seatbacks is to allow you to carry longer objects than could not otherwise be accommodated. Never allow passengers to sit on top of the folded down seatback while the car is moving as this is not a proper seating position and no seat belts are available for use. This could result in serious injury or death in case of an accident or sudden stop. Objects carried on the folded down seatback should not extend higher than the top of the front seats. This could allow cargo to slide forward and cause injury or damage during sudden stops.

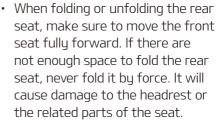
The rear seatbacks may be folded forward to provide additional cargo space and to provide access to the cargo area.

- To raise the seatback, lift and push it firmly until it clicks into place.
- When you return the seatback to its upright position, reposition the rear safety belts so that they can be used by rear seat passengers.

A WARNING

Do not fold the rear seat, if the driver's position is not properly set according to the driver's physical figure after folding the rear seat. A sudden stop or collision may cause injury.

A CAUTION



- Before using the seat belt, be sure to remove it from the holder. If you pull out the seat belt while it's in the holder, it may damage the seat belt or holder.
- Use the holder only when there is no passenger in the rear seat or when you need to fold the rear seat.

To fold down the rear seatback

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

On rear outboard seatback



3. On rear outboard seatback: Pull the lock release lever (1) and fold

the rear seatback forward and down firmly.

In the luggage room



In the luggage room (Remote folding, for Wagon, Shooting Brake, if equipped):

Pull on the seatback folding lever
 (2), then the rear seatback will be folded.

▲ CAUTION

Remote folding

Do not strongly push back the seat back to lock. It may unlock and return by repulsive power.

A WARNING

Remote folding

Do not fold the rear seats, if passengers, pets or luggage are in the rear seats or on the folded seats. It may cause injury or damage to passengers, pets, luggage.

WARNING

2nd row right side seat folding



Be careful when you fold the 2nd row right side seat, if the center seat is folded. It may cause injury or damage to you.

To unfold the rear seat



1. To use the rear seat, lift and pull the seatback backward. Pull the seatback firmly until it clicks into place. Make sure the seatback is locked in place. When you return the seatback to its upright position, always be sure it has locked into position by pushing on the top of the seatback. If you can not see the red line at the bottom of folding lever, it means the seatback is locked completely.

- 2. Return the rear seat belt to the proper position.
- 3. When the seatback is completely installed, check the seatback folding lever again.

To fold down the rear center seatback separately (for Wagon, Shooting Brake and CUV) (if equipped)



Long objects can be stored by folding the rear center seatback, without having to fold all rear seats. See below steps for folding the rear center seatback.

- 1. Lower the rear center headrest to the lowest position.
- 2. Pull the armrest forward from the seatback.

- 3. Pull the lever (1) to unlock the center seatback.
- 4. After unlocking, pull forward the center seatback and fold it.

A WARNING

Uprighting seat

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 resulting in injury caused by being struck by the seatback.

A WARNING

After folding the rear seat, unless the driver's position is properly set according to the driver's physical figure, do not fold the rear seat. It may increase body injuries in a sudden stop or collision.

A WARNING

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

Be careful not to damage the seat belt webbing or buckle. Do not allow the seat belt webbing or buckle to get caught or pinched in the rear seat. Ensure that the seatback is completely locked into its upright position by pushing on the top of the seatback. Otherwise, in an

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accident or sudden stop, the seat could fold down and allow cargo enter the passenger compartment, which could result in serious injury or death.

A CAUTION



Damaging rear seat belt buckles

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

A CAUTION

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

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

WARNING



Cargo loading

Make sure the engine is off, the manual transmission is in 1st, and the parking brake is securely applied whenever loading or unloading cargo. Failure to take these steps may allow the vehicle to move if the shift lever is inadvertently moved to another position.

Seat belt restraint system

A WARNING

- For maximum restraint system protection, the seat belts must always be used whenever the car is moving.
- Seat belts are most effective when seatbacks are in the upright position.
- Children age 13 and younger must always be properly restrained in the rear seat. Never allow children to ride in the front passenger seat. If a child over 13 must be seated in the front seat, he/she must be properly belted and the seat should be moved as far back as possible.
- Never wear the shoulder belt under your arm or behind your back. An improperly positioned shoulder belt can cause serious injuries in a crash. The shoulder belt should be positioned midway over your shoulder across your collarbone.
- Never wear a seat belt over fragile objects. If there is a sudden stop or impact, the seat belt can damage it.
- Avoid wearing twisted seat belts.
 A twisted belt can't do its job as well. In a collision, it could even cut

into you. Be sure the belt webbing is straight and not twisted.

• Be careful not to damage the belt webbing or hardware. If the belt webbing or hardware is damaged, replace it.

A WARNING

Seat belts are designed to bear upon the bony structure of the body, and should be worn low across the front of the pelvis or the pelvis, chest and shoulders, as applicable; wearing the lap section of the belt across the abdominal area must be avoided. Seat belts should be adjusted as firmly as possible, consistent with comfort, to provide the protection for which they have been designed. A slack belt will greatly reduce the protection afforded to the wearer. Care should be taken to avoid contamination of the webbing with polishes, oils and chemicals, and particularly battery acid. Cleaning may safely be carried out using mild soap and water. The belt should be replaced if webbing becomes frayed, contaminated or damaged.

It is essential to replace the entire assembly after it has been worn in a severe impact even if damage to the assembly is not obvious. Belts should not be worn with straps twisted. Each belt assembly must only be used by one occupant; it is

dangerous to put a belt around a child being carried on the occupant's lap.

A WARNING

- No modifications or additions should be made by the user which will either prevent the seat belt adjusting devices from operating to remove slack, or prevent the seat belt assembly from being adjusted to remove slack.
- When you fasten the seat belt, be careful not to latch the seat belt in buckles of other seat. It's very dangerous and you may not be protected by the seat belt properly.
- Do not unfasten the seat belt and do not fasten and unfasten the seat belt repeatedly while driving. This could result in loss of control, and an accident causing death, serious injury, or property damage.
- When fastening the seat belt, make sure that the seat belt does not pass over objects that are hard or can break easily.
- Make sure there is nothing in the buckle. The seat belt may not be fastened securely.

Driver seat belt warning



As a reminder to the driver, the driver's seat belt warning lights will illuminate for approximately 6 seconds each time you turn the ignition switch ON regardless of belt fastening. If the seatbelt is not fastened, the warning chime will sound for about 6 seconds.

If you start to drive without the seat belt fastened or you unfasten the seat belt when you drive under 20 km/h or stop, the corresponding warning light will illuminate.

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

When the seat belt is unfastened during driving, the warning light will illuminate when the speed is under 20 km/h.

When the speed is 20 km/h and faster, the warning light will blink and warning chime will sound for approximately 100 seconds.

Front passenger seat belt warning

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

If you start to drive without the seat belt fastened or you unfasten the seat belt when you drive under 20 km/h or stop, the corresponding warning light will illuminate.

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

When the seat belt is unfastened during driving, the warning light will illuminate when the speed is under 20 km/h. When the speed is 20 km/h and faster, the warning light will blink and warning chime will sound for approximately 100 seconds.

A WARNING

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

* NOTICE

- Although the front passenger seat is not occupied, the seat belt warning light will illuminate for 6 seconds.
- The front passenger's seat belt warning may operate when luggage is placed on the front passenger seat.

Rear passenger's seat belt warning (if equipped)



OCDW039025

• For rear left (3) and right (5) side seat

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

If you start to drive without the seat belt fastened or you unfasten the seat belt when you drive under 20 km/h, the corresponding warning

3

light will continue to illuminate until you fasten the seat belt.

If you continue to drive without the seat belt fastened or you unfasten the seat belt when you drive 20 km/h and faster, the seat belt warning chime will sound for approximately 35 seconds and the corresponding warning light will blink.

When the seat belt is unfastened during driving, the warning lights will illuminate when the speed is under 20 km/h.

When the speed is 20 km/h and faster, the warning light will blink and warning chime will sound for approximately 35 seconds.

• For rear center (4) seat

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

If the seat belt is not fastened when the ignition switch is turned ON, the seat belt warning light will illuminate for approximately 70 seconds.

If you start to drive without the seat belt fastened the corresponding warning light will continue to illuminate for approximately 70 seconds regardless of the speed. If you unfasten the seat belt when you drive under 20 km/h (12 mph), the corresponding warning light will illuminate for approximately 70 seconds.

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

If the rear door is opened while driving under 20 km/h, warning light and warning sound does not work even if driving over 20 km/h.

Lap/Shoulder belt

Height adjustment (front seat) (if equipped)

You can adjust the height of the shoulder belt anchor to one of the 3 positions for maximum comfort and safety.

Front seat



The height of the adjusting seat belt should not be too close to your neck. The shoulder portion should be adjusted so that it lies across your chest and midway over your shoulder near the door and not your neck.

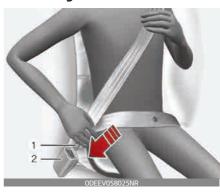
- To adjust the height of the seat belt anchor, lower or raise the height adjuster into an appropriate position.
- To raise the height adjuster, pull it up (1). To lower it, push it down (3) while pressing the height adjuster button (2).

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

A WARNING

- Verify the shoulder belt anchor is locked into position at the appropriate height. Never position the shoulder belt across your neck or face. Improperly positioned seat belts can cause serious injuries in an accident.
- Failure to replace seat belts after an accident could leave you with damaged seat belts that will not provide protection in the event of another collision leading to personal injury or death. Replace your seat belts after being in an accident as soon as possible.

To fasten your seat belt



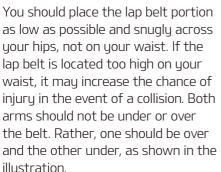
 To fasten your seat belt, pull it out of the retractor and insert the metal tab (1) into the buckle (2). There will be an audible "click" when the tab locks into the buckle. The seat belt automatically adjusts to the proper length only after the lap belt portion is adjusted manually so that it fits snugly around your hips. If you lean forward in a slow, easy motion, the belt will extend and 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 guickly.

* NOTICE

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



WARNING

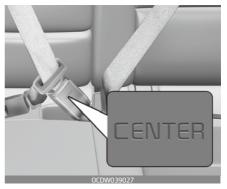


Never wear the seat belt under the arm nearest the door.



The seat belt should be locked into the buckle on each seat cushion to be properly fastened.

- 1. Rear right seat belt fastening buckle
- 2. Rear center seat belt fastening buckle
- 3. Rear left seat belt fastening buckle



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

▲ CAUTION

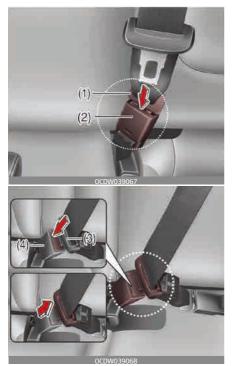
Do not force to lock the left or right seat belt into the center seat belt buckle.

Make sure to lock the rear center seat belt into the center seat belt buckle.

If not, the improperly fastened seat belt will not be able to provide protection.

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Rear center seatbelt



 Pull the metal tab (3) and insert it into the buckle (4). There will be an audible "click" when the tab locks into the buckle. Make sure the belt is not twisted. When using the rear center seat belt the buckle with the "CENTER" mark must be used.

To release the seat belt



• 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 be sure it is not twisted, then try again.

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.

Pre-tensioner seat belt (if equipped)



Your vehicle is equipped with pretensioner seatbelts at the front and rear outboard seating positions.

The purpose of the pre-tensioner is to make sure that the seat belts fit tightly against the occupant's body in certain collisions.

The pre-tensioner seat belts may be activated 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 pre-tensioner will activate and pull the seat belt into tighter contact against the occupant's body.

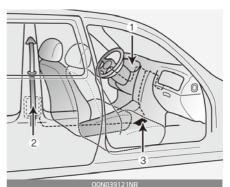
If the system senses excessive tension on the driver or passenger's seat belt when the pre-tensioner activates, the load limiter inside the pre-tensioner will release some of the pressure on the affected seat belt. (if equipped)

A WARNING

For your safety, be sure that the belt webbing is not loose or twisted and always sit properly on your seat.

* NOTICE

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



The seat belt pre-tensioner system consists mainly of the following components. Their locations are shown in the illustration:

- 1. SRS air bag warning light
- 2. Retractor pre-tensioner assembly
- 3. SRS control module

A WARNING

To obtain maximum benefit from a pre-tensioner seat belt:

- The seat belt must be worn correctly and adjusted to the proper position. Please read and follow all of the important information and precautions about your vehicle's occupant safety features - including seat belts and air bags - that are provided in this manual.
- 2. Be sure you and your passengers always wear seat belts properly.

* NOTICE

- Pre-tensioners equipped at the front and rear outboard seating positions will be activated in certain collisions. The pretensioner seat belts can be activated, where the collision is severe enough, together with the air bags.
- When the pre-tensioner seat belts are activated, a loud noise may be heard and fine dust, which may appear to be smoke, may be visible in the passenger compartment. These are normal operating conditions and are not hazardous.
- Although it is harmless, the fine dust may cause skin irritation and should not be breathed for prolonged periods. Wash all exposed skin areas thoroughly after an accident in which the pre-tensioner seat belts were activated.

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

A CAUTION

If the pre-tensioner seat belt is not working properly, the SRS air bag warning light will illuminate even if there is no malfunction of the SRS air bag. If the SRS air bag warning light does not illuminate when the ignition key is turned to ON, or if it remains illuminated after illuminating for approximately 6 seconds, or if it illuminates while the vehicle is being driven, have the system inspected by a professional workshop. Kia recommends to visit an authorized Kia dealer/service partner.

WARNING

 Pre-tensioners are designed to operate only one time. After activation, pre-tensioner seat belts must be replaced. All seat belts, of any type, should always be replaced after they have been worn during a collision.

- The pre-tensioner seat belt assembly mechanisms become hot during activation. Do not touch the pre-tensioner seat belt assemblies for several minutes after they have been activated.
- Do not attempt to inspect or replace the pre-tensioner seat belts yourself. Have the system inspected by a professional workshop. Kia recommends to visit an authorized Kia dealer/ service partner.
- Do not strike the pre-tensioner seat belt assemblies.
- Do not attempt to service or repair the pre-tensioner seat belt system in any manner.
- Improper handling of the pretensioner seat belt assemblies, and failure to heed the warnings not to strike, modify, inspect, replace, service or repair the pretensioner seat belt assemblies may lead to improper operation or inadvertent activation and serious injury.
- Always wear the seat belts when driving or riding in a motor vehicle.
- If the vehicle or pre-tensioner seat belt must be discarded, contact a professional workshop. Kia recommends to visit an authorized Kia dealer/service partner.

Body work on the front area of the vehicle may damage the pre-tensioner seat belt system. Therefore, have the system serviced by a professional workshop. Kia recommends to visit an authorized Kia dealer/service partner.

Seat belt precautions

A WARNING

 All occupants of the vehicle must wear their seat belts at all times. Seat belts and child restraints reduce the risk of serious or fatal injuries for all occupants in the event of a collision or sudden stop. Without a seat belt, occupants could be shifted too close to a deploying air bag, strike the interior structure or be thrown from the vehicle. Properly worn seat belts greatly reduce these hazards.

Always follow the precautions about seat belts, air bags and occupant safety contained in this manual.

• Never wear a seat belt over fragile objects. If there is a sudden stop or impact, the seat belt can damage it.

A CAUTION

Infant or small child

You should be aware of the specific requirements in your country. Child and/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 3-34.

A WARNING

Every person in your vehicle needs to be properly restrained at all times, including infants and children. Never hold a child in your arms or lap when riding in a vehicle. The violent forces created during a crash will tear the child from your arms and throw the child against the interior. Always use a child restraint appropriate for your child's height and weight.

* NOTICE

Small children are best protected from injury in an accident when properly restrained in the rear seat by a child restraint system that meets the requirements of the Safety Standards of your country. Before buying any child restraint system, make sure that it has a label certifying that it meets Safety Standards of your country. 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 3-34.

Larger children

Children who are too large for child restraint systems should always occupy the rear seat and use the available lap/shoulder belts. The lap portion should be fastened and snugged on the hips and as low as possible. Check if belt fits periodically. A child's squirming could put the belt out of position. Children are given the most safety 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 13) 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 age 13 and under should be restrained securely in the rear seat. NEVER place a child age 13 and under 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

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they need to be returned to a child restraint system.

A WARNING



Shoulder belts on small children

- Never allow a shoulder belt to be in contact with a child's neck or face while the vehicle is in motion.
- If seat belts are not properly worn and adjusted on children, there is a risk of death or serious injury.

Pregnant women

The use of a seat belt is recommended for pregnant women to lessen the chance of injury in an accident. When a seat belt is used, the lap belt portion should be placed as low and snugly as possible on the hips, not across the abdomen. For specific recommendations, consult a physician.

A WARNING

Pregnant women

Pregnant women must never place the lap portion of the safety belt over the area of the abdomen where the fetus is located or above the abdomen where the belt could crush the fetus during an impact.

Injured person

A seat belt should be used when an injured person is being transported. When this 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. This 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 to achieve maximum effectiveness of the restraint system, all passengers should be sitting up and the front and rear seats should be in an upright position when the 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.

A WARNING

Riding with a reclined seatback increases your chance of serious or fatal injuries in the event of a collision or sudden stop. The protection of your restraint system (seat belts and air bags) is greatly reduced by reclining your seat. Seat belts must be snug against your hips and chest to work properly. The more the seatback is reclined, the greater the chance that an occupant's hips will slide under the lap belt causing serious internal injuries or the occupant's neck could strike the shoulder belt. Drivers and passengers should always sit well back in their seats, properly belted, and with the seatbacks upright.

Care of seat belts

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

WARNING

 When you return the rear seatback to its upright position after the rear seatback has been folded down, be careful not to damage the seat belt webbing or buckle. Be sure that the webbing or buckle does not get caught or pinched in the rear seat. A seat belt with damaged webbing or buckle could possibly fail during a collision or sudden stop, resulting in serious injury. If the webbing or buckles are damaged, get them replaced immediately.

 Seatbelts can become hot in a vehicle that has been closed up in sunny weather. They could burn infants and children.

Periodic inspection

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

Keep belts clean and dry

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

When to replace seat belts

Entire in-use seat belt assembly or assemblies should be replaced if the vehicle has been involved in an accident. This should be done even if no damage is visible. In this case, have the system replaced by a professional workshop. Kia recommends to consult an authorized Kia dealer/service partner.

Child restraint system (CRS)

Our recommendation: Children always in the rear

A WARNING

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

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

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

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

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

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

Child Restraint System (CRS)

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

A WARNING

- Always follow the Child Restraint System manufacturer's instructions for installation and use.
- Always properly restrain your child in the Child Restraint System.
- Do not use an infant carrier or a child safety seat that "hooks" over a seatback, it may not provide adequate protection in an accident.
- After an accident, have the system checked by a professional workshop. Kia recommends to visit an authorized Kia dealer/ service partner.

Selecting a Child Restraint System (CRS)

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

- Make sure the Child Restraint System has a label certifying that it meets applicable Safety Standards of your country. A Child Restraint System may only be installed if it was approved in accordance with the requirements of ECE-R44 or ECE-R129.
- Select a Child Restraint System based on your child's height and weight. The required label or the instructions for use typically provide this information.
- Select a Child Restraint System that fits the vehicle seating position where it will be used. Refer to "Suitability of each seating position for belted & ISOFIX Child Restraint Systems (CRS) according to UN regulations." on page 3-42.
- Read and comply with the warnings and instructions for installation and use provided with the Child Restraint System.

Child Restraint System types

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

Rearward-facing Child Restraint System



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

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

3

rearward-facing for a longer period of time.

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

Forward-facing Child Restraint System



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

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

Booster seats

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

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

Installing a Child Restraint System (CRS)

A WARNING

Before installing your Child Restraint System always:

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

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

A WARNING

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

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

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

so that your child fits in the Child Restraint System in a confortable manner.

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

A CAUTION

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

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

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

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

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

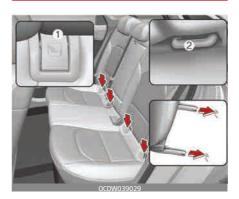
The Child Restraint System manufacturer will provide you with instructions on how to use the Child Restraint System with its attachments for the ISOFIX anchorages.



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

A WARNING

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



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

- 1.* ISOFIX(i-Size) Anchor Position Indicator (
- 2. ISOFIX(i-Size) Anchor

Securing a Child Restraint System with the "ISOFIX(i-Size) Anchorage System"

To install a ISOFIX(i-Size)-compatible Child Restraint System in either of the rear outboard seating positions:

- 1. Move the seat belt buckle away from the ISOFIX(i-Size) anchorages.
- 2. Move any other objects away from the anchorages that could

prevent a secure connection between the Child Restraint System and the ISOFIX(i-Size) anchorages.

- 3. Place the Child Restraint System on the vehicle seat, then attach the seat to the ISOFIX(i-Size) anchorages according to the instructions provided by the Child Restraint System manufacturer.
- 4. Follow the instructions of the Child Restraint System's manufacturer for proper installation and connection of the ISOFIX(i-Size) attachments on the Child Restraint System to the ISOFIX(i-Size) anchorages.

A WARNING

Take the following precautions when using the ISOFIX(i-Size) system:

- Read and follow all installation instructions provided with your Child Restraint System.
- To prevent the child from reaching and taking hold of unretracted seat belts, buckle all unused rear seat belts and retract the seat belt webbing behind the child. Children can be strangled if a shoulder belt becomes wrapped around their neck and the seat belt tightens.
- NEVER attach more than one Child Restraint System to a single anchorage. This could cause the

anchor or attachment to come loose or break.

 Always have the ISOFIX(i- Size) system inspected by your dealer after an accident. An accident can damage the ISOFIX(i-Size) system and may not properly secure the Child Restraint System.

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



Child restraint system top tether anchorages are located on the back of the rear seatbacks.



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

A WARNING

Take the following precautions when installing the top-tether:

- Read and follow all installation instructions provided with your Child Restraint System.
- NEVER attach more than one Child Restraint System to a single ISOFIX top-tether anchorage. This could cause the anchorage or attachment to come loose or break.
- Do not attach the top-tether to anything other than the correct top-tether anchorage. It may not work properly if attached to something else.
- Child Restraint System anchorages are designed to withstand only those loads imposed by correctly fitted Child Restraint System. Under no circumstances are they to be used

for adult seat belts or harnesses or for attaching other items or equipment to the vehicle.

Securing a Child Restraint System with a lap/shoulder belt

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

Installing a Child Restraint System with a lap/shoulder belt



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

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



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

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

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

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

(Information for use by vehicle users and CRS manufacturers)

- Yes : Suitable for fitment of the designated category of CRS
- No : Not suitable for fitment of the designated category of CRS
- "-" : Not applicable
- The table is based on LHD vehicle. Except for the front passenger seat, the table is valid for RHD vehicle.

For RHD vehicle front passenger seat, please use information for the seating position number 3.

	Seating positions								
CRS categories			2	3					Remarks
				Airbag ON	Airbag OFF	4	5	6	
Universal belted CRS		-	-	No	Yes F, R	Yes F, R	Yes*1 F, R	Yes F, R	F : Forward facing R : Rear- ward facing
i-size CRS		-	-	No	No	Yes F, R ^{*2}	No	Yes F, R*2	
Carry-cot (ISOFIX lateral facing CRS)	ISOFIX CRF : L1, L2	-	-	No	No	No	No	No	
ISOFIX infant CRS (i.e. CRS for a baby)	ISOFIX CRF : R1	-	-	No	No	Yes R	No	Yes R	
ISOFIX toddler CRS - small	ISOFIX CRF : F2, F2X, R2, R2X	-	-	No	No	Yes F, R*2	No	Yes F, R*2	
* ISOFIX toddler CRS - large (*: not booster seats)	ISOFIX CRF : F3, R3	-	-	No	No	Yes F, R*2	No	Yes F, R*2	
Booster Seat - reduced Width	ISO CRF : B2	-	-	No	No	Yes	No	Yes	
Booster Seat - full Width	ISO CRF : B3	-	-	No	No	No	No	No	

*1. The seating position number 5 is not suitable for fitment of child restraint system with a support leg.

*2. The seating position number 5 is not suitable for fitment of child restraint system with a support leg.

• Driver seat : You should move the driver seat to the mid position and adjust the height of seat to the highest position.

• Front passenger seat : You should move the passenger seat to the foremost position.



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

Recommended child restraint systems - For Europe

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

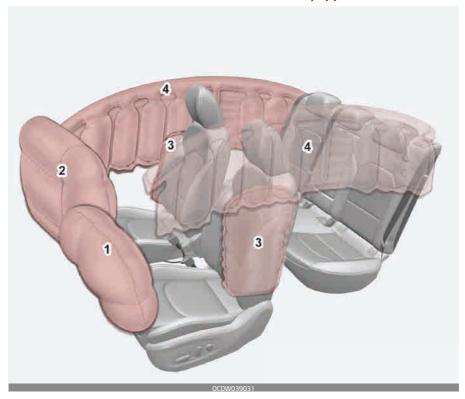
CRS Manufacturer information

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

Britax Römer http://www.britax.com

Graco http//www.gracobaby.com

Air bag - supplemental restraint system (if equipped)





OCDW039063

- * The actual air bags in the vehicle may differ from the illustration.
- 1. Driver's front air bag
- 2. Passenger's front air bag
- 3. Side air bag*
- 4. Curtain air bag*
- 5. Front passenger's air bag ON/OFF switch
- *: if equipped

A WARNING

- Even in vehicles with air bags, you and your passengers must always wear the safety belts provided in order to minimize the risk and severity of injury in the event of a collision or rollover.
- SRS and pre-tensioners contain explosive chemicals. If scraping a vehicle without removing SRS and pre-tensioners from a vehicle, it may cause fire. Before scraping a vehicle, contact a professional workshop. Kia recommends to visit an authorized Kia dealer/ service partner.
- Keep the SRS parts and wirings 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.

How does the air bag system operate

- Air bags are activated (able to inflate if necessary) only when the ignition switch is turned to the ON or START position.
- Air bags inflate instantly in the event of a serious frontal collision or side collision (if equipped with a side air bag or curtain air bag) in order to help protect the occupants from serious physical injury.

* NOTICE

If equipped with rollover sensor

Also, the air bags inflate instantly in the event of a rollover (if equipped with a side air bag or curtain air bag) in order to help protect the occupants from serious physical injury.

- In normal conditions, the airbag is designed to deploy based on certain angle and intensity of the collision. These two factors are crucial elements for deciding whether to transmit airbag deployment signal or start the electrical operation or not.
- The airbag will deploy based on angle and intensity of the collision. It will not deploy in every crash or collision situations.
- The front air bags will completely inflate and deflate in an instant. It is virtually impossible for you to see the air bags inflate during an accident.

It is much more likely that you will simply see the deflated air bags hanging out of their storage compartments after the collision.

 In order to help provide protection in a severe collision, the air bags must inflate rapidly. The speed of the air bag inflation is a consequence of extremely short time in which a collision occurs and the need to inflate the air

bag between the occupant and the vehicle structures before the occupant impacts those structures.

This speed of inflation reduces the risk of serious or life-threatening injuries in a severe collision and is thus a necessary part of the air bag design.

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

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

A WARNING

- To avoid severe personal injury or death caused by deploying air bags in a collision, the driver should sit as far back from the steering wheel air bag as possible (at least 250 mm (10 inches) away). The front passengers should always move their seats as far back as possible and sit back in their seat.
- Air bags inflate instantly in the event of a collision, and passengers may be injured by the

air bag expansion force if they are not in a proper position.

 Air bag inflation may cause injuries including facial or bodily abrasions, injuries from broken glasses or burns.

Noise and smoke

When the air bags inflate, they make a loud noise and they leave smoke and powder in the air inside of the vehicle. This is normal and is a result of the ignition of the air bag inflator. After the air bag inflates, you may feel substantial discomfort in breathing due to the contact of uour chest with both the seat belt and the air bag, as well as from breathing the smoke and powder. Open your doors and/or windows as soon as possible after impact in order to reduce discomfort and prevent prolonged exposure to the smoke and powder.

Though the smoke and powder are non-toxic, they may cause irritation to the skin (eyes, nose and throat, etc). If this is the case, wash and rinse with cold water immediately and consult a doctor if the symptom persists.

A WARNING

When the air bags deploy, the air bag related parts in the steering wheel and/or instrument panel 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 air bag storage area's internal components immediately after an air bag has inflated. Do not install or place any accessories near air bag deployment areas, such as the instrument panel, windows, pillars, and roof rails.

Front passenger's air bag warning label for child restraint system



Never place a rear-facing child restraint in the front passenger's seat. If the air bag deploys, it would impact the rear-facing child restraint, causing serious or fatal injury.

In addition, do not place a frontfacing 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.

If your vehicle is equipped with the passenger's front air bag ON/ OFF switch, you can activate or deactivate the front passenger's air bag when necessary.

WARNING

- Extreme Hazard! Do not use a rearward facing child restraint on a seat protected by an air bag in front of it!
- NEVER use a rearward facing child restraint on a seat protected by an ACTIVE AIRBAG in front of it, DEATH or SERIOUS INJURY to the CHILD can occur.
- Never put a child restraint in the front passenger's seat. If the front passenger air bag inflates, it can cause serious or fatal injuries.
- When children are seated in the rear outboard seats of a vehicle equipped with side and/or curtain air bags, be sure to install the child restraint system as far away from the door side as possible, and securely lock the child restraint system in position. Inflation of side and/or curtain air

bags could cause serious injury or death to an infant or child.

Air bag warning light



The purpose of the air bag warning light in your instrument panel is

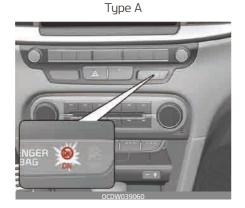
to alert you of a potential problem with your air bag - Supplemental Restraint System (SRS).

When the ignition switch is turned ON, the warning light should illuminate for approximately 6 seconds, then goes off.

Have the system checked if:

- 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 ignition switch is in ON position.

Passenger's front air bag ON indicator



Type B





The passenger's front air bag ON indicator illuminates for approximately 4 seconds

after the ignition switch is turned to the ON position.

The passenger's front air bag ON indicator also comes on when the passenger's front air bag ON/OFF switch is set to the ON position and goes off after approximately 60 seconds.

Passenger's front air bag OFF indicator





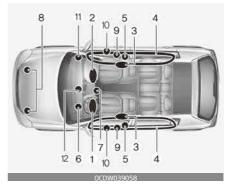


The passenger's front air bag OFF indicator illuminates for about 4 seconds after the ignition switch is turned to the ON position.

The passenger's front air bag OFF indicator also comes on when the passenger's front air bag ON/OFF switch is set to the OFF position and goes off when the passenger's front air bag ON/OFF switch is set to the ON position.

CAUTION

If the passenger's front air bag ON/ OFF switch malfunctions. the passenger 's front air bag OFF indicator will not illuminate (The passenger's front air bag ON indicator comes on and goes off after approximately 60 seconds) and the passenger's front air bag will inflate in a frontal impact even if the passenger's front air bag ON/OFF switch is set to the OFF position. In this case, have the passenger's front air bag ON/OFF switch and the SRS air bag system inspected by a professional workshop. Kia recommends to visit an authorized Kia dealer/service partner.



The SRS consists of the following components:

3

SRS components and functions

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

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

The SRS air bag warning light """ on the instrument panel will illuminate for about 6 seconds after the ignition switch is turned to the ON position, after which the SRS air bag warning light """ should go out.

A WARNING

If any of the following conditions occurs, this indicates a malfunction of the SRS. In this case, have the system inspected by a professional workshop. Kia recommends to visit an authorized Kia dealer/service partner.

- 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 ignition switch is in ON position.

Driver's front air bag (1)



ODEEV058048NR

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)



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

Driver's front air bag (3)



ODEEV058050NR

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 head and chest injury.

After complete inflation, the air bag immediately starts deflating,

enabling the driver to maintain forward visibility and the ability to steer or operate other controls.

Passenger's front air bag



A WARNING

- Do not install or place any accessories (drink holder, sticker, etc.) on the front passenger's panel above the glove box in a vehicle with a passenger's air bag. Such objects may become dangerous projectiles and cause injury if the passenger's air bag inflates.
- 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 a dangerous projectile and cause injury if the passenger's air bag inflates.

A WARNING

- If an air bag deploys, there may be a loud noise followed by a fine dust released in the vehicle. These conditions are normal and are not hazardous - the air bags are packed in this fine powder. The dust generated during air bag deployment may cause skin or eye irritation as well as aggravate asthma for some persons. Always wash all exposed skin areas thoroughly with cold water and a mild soap after an accident in which the air bags were deployed.
- The SRS can function only when the ignition switch is in the ON position. If the SRS """ warning light does not illuminate, or continuously remains on after illuminating for about 6 seconds when the ignition switch is turned to the ON position, or after the engine is started, comes on while driving, the SRS is not working properly. In this case, have the system inspected by a professional workshop. Kia recommends to visit an authorized Kia dealer/service partner.
- Before you replace a fuse or disconnect a battery terminal, turn the ignition switch to the LOCK position and remove the ignition key. Never remove or replace the air bag related fuse(s) when the ignition switch is in the ON position. Failure to heed this

warning will cause the SRS "**x**" warning light to illuminate.

Driver's and passenger's front air bag

Driver's front air bag



Passenger's front air bag



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

The indications of the system's presence are the letters "AIRBAG"

engraved on the air bag pad cover in the steering wheel and the passenger's side front panel pad above the glove box.

The SRS consists of air bags installed under the pad covers in the center of the steering wheel and the passenger's side front panel above the glove box.

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

A WARNING

The driver's hands should be placed on the steering wheel at the 9:00 and 3:00 positions. The passenger's arms and hands should be placed on their laps.

A WARNING

Always use seat belts and child restraints - every trip, every time, everyone! Air bags inflate with considerable force and in the blink of an eye. Seat belts help keep occupants in proper position to obtain maximum benefit from the air bag. Even with air bags, improperly belted and unbelted occupants can be severely injured when the air bag inflates. Always follow the precautions about seat belts, air bags and occupant safety contained in this manual. 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.
- ABC Always Buckle Children in the back seat. It is the safest place for children of any age to ride.
- Front and side air bags can injure occupants improperly positioned in the front seats.
- Move your seat as far back as practical from the front air bags, while still maintaining control of the vehicle.
- You and your passengers should never sit or lean unnecessarily close to the air bags. Improperly positioned drivers and passengers can be severely injured by inflating air bags.
- Never lean against the door or center console – always sit in an upright position.
- Do not allow a passenger to ride in the front seat when the passenger 's front air bag OFF indicator is illuminated, because the air bag will not deploy in the event of a moderate or severe frontal crash.
- No objects should be placed over or near the air bag modules on the steering wheel, instrument panel and the front passenger's panel

3

above the glove box, because any such object could cause harm if the vehicle is in a crash severe enough to cause the air bags to deploy.

- Do not tamper with or disconnect SRS wiring or other components of the SRS system. Doing so could result in injury, due to accidental deployment of the air bags or by rendering the SRS inoperative.
- If the SRS air bag warning light remains illuminated while the vehicle is being driven, have the system inspected by a professional workshop. Kia recommends to visit an authorized Kia dealer/service partner.
- Air bags can only be used once

 have the system replaced by
 a professional workshop. Kia
 recommends to visit an authorized
 Kia dealer/service partner.
- The SRS is designed to deploy the front air bags only when an impact is sufficiently severe and when the impact angle is less than 30° from the forward longitudinal axis of the vehicle. Additionally, the air bags will only deploy once. Seat belts must be worn at all times.
- Front air bags are not intended to deploy in side-impact, rear-impact or rollover crashes. In addition, front air bags will not deploy in frontal crashes below the deployment threshold.

- A child restraint system must never be placed in the front seat. The infant or child could be severely injured or killed by an air bag deployment in case of an accident.
- Children age 13 and under must always be properly restrained in the rear seat. Never allow children to ride in the front passenger seat. If a child over 13 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.
- For maximum safety protection in all types of crashes, all occupants including the driver should always wear their seat belts whether or not an air bag 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 air bag while the vehicle is in motion.
- 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, centered on the seat cushion with their seat belt on, legs comfortably extended and their feet on the floor until the vehicle is parked and the ignition key is removed.

 The SRS air bag 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 air bag may forcefully contact the occupant causing serious or fatal injuries.

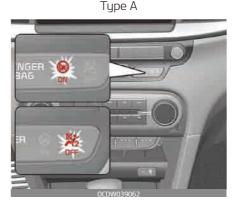
Passenger's front air bag ON/OFF switch (if equipped)



The passenger's front air bag can be deactivated by the passenger's front air bag ON/OFF switch if a child restraint is installed on the front passenger's seat or if the front passenger's seat is unoccupied by a person.

To ensure the safety of your child, the passenger's front air bag must be deactivated when it should be necessary to install a rearward facing child seat on the front passenger seat in exceptional circumstances.

To deactivate or reactivate the passenger's front air bag



Type B



 To deactivate the passenger's front air bag, insert the master key into the passenger's front air bag ON/OFF switch and turn it to the OFF position.

The passenger's front air bag OFF indicator () will illuminate and stay on until the passenger's front air bag is reactivated.

• To reactivate the passenger's front air bag, insert the master key into the passenger's front air

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bag ON/OFF switch and turn it to the ON position.

The passenger's front air bag OFF indicator will go out and the passenger's front air bag ON indicator () will illuminate for approximately 60 seconds.

A WARNING

The front air bag ON/OFF switch could turn by using a similar small rigid device. Always check the status of the front air bag ON/OFF switch and passenger's front air bag ON/ OFF indicator.

* NOTICE

- When the passenger's front air bag ON/OFF switch is set to the ON position, the passenger's front air bag is activated and child or infant seat should not be installed on the front passenger seat.
- When the passenger's front air bag ON/OFF switch is set to the OFF position, the passenger's front air bag is deactivated.

A CAUTION

 If the passenger's front air bag ON/OFF switch is not working properly, the air bag warning light (*) on the instrument panel will illuminate. And, the passenger's front air bag OFF indicator (\swarrow) will not illuminate (The passenger's front air bag ON indicator comes on and goes off after approximately 60 seconds), the SRS Control Module reactivate the passenger's front air bag and the passenger's front air bag will inflate in frontal impact crashes even if the passenger's front air bag ON/OFF switch is set to the OFF position.

In this case, have the system inspected by a professional workshop. Kia recommends to visit an authorized Kia dealer/ service partner.

 If the SRS air bag warning light blinks or does not illuminate when the ignition switch is turned to the ON position, or if it illuminates while the vehicle is being driven, have the system inspected by a professional workshop. Kia recommends to visit an authorized Kia dealer/service partner.

A WARNING

- The driver is responsible for the proper position of the passenger's front air bag ON/OFF switch.
- Deactivate the passenger's front air bag only when the ignition switch is switched off, or the malfunction may occur in the SRS Control Module.

And there may be a danger that the driver's and/or front

passenger 's and/or side and curtain air bag may fail to trigger, or not trigger correctly during a collision.

- Never install a rearward facing child seat on the front passenger's seat unless the passenger's front air bag has been deactivated. The infant or child could be severely injured or killed by an air bag deployment in case of an accident.
- Even though your vehicle is equipped with the passenger's front air bag ON/OFF switch, do not install a child restraint system in the front passenger's seat. A child restraint system must never be placed in the front seat. Children who are too large for child restraint systems should always occupy the rear seat and use the available lap/shoulder belts. Children are afforded the most safetu in the event of an accident when they are restrained by a proper restraint system in the rear seat.
- As soon as the child seat is no longer needed on the front passenger's seat, reactivate the front passenger's air bag.
- Never place or insert any object into any small opening near side airbag labels attached to the vehicle seats. When the air bag deploys, the object may affect the deployment and result in

unexpected accident or bodily harm.

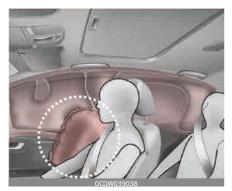
A WARNING

No attaching objects

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



Side air bag (if equipped)



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

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

The side air bags are designed to deploy only during certain sideimpact collisions, depending on the crash severity, angle, speed and point of impact. The side air bags are not designed to deploy in all side impact or rollover situations.

WARNING

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 air bags.

* NOTICE

if equipped with rollover sensor

- Also, both side of the side air bags deploy in certain rollover situations.
- The side air bag may deploy when the rollover sensor detects the situation as a rollover.

WARNING

- The side air bag is supplemental to the seat belt systems and is not a substitute for them. Therefore your seat belts must be worn at all times while the vehicle is in motion. The air bags deploy only in certain side impact or rollover conditions¹ severe enough to cause significant injury to the vehicle occupants.
- For best protection from the side air bag system and to avoid being injured by the deploying side air bag, both front and all rear (if equipped) seat occupants should sit in an upright position with the seat belt properly fastened.
- Do not use any accessory seat covers.
- *1. Only vehicle equipped with rollover sensor.

- Use of seat covers could reduce or prevent the effectiveness of the system.
- To prevent unexpected deployment of the side air bag that may result in personal injury, avoid impact to the side impact sensor when the ignition switch is on.
- If the seat or seat cover is damaged, have the system serviced by a professional workshop. Kia recommends to visit an authorized Kia dealer/ service partner.

A WARNING

No attaching objects

- Do not place any objects over the air bag or between the air bag and yourself. Also, do not attach any objects around the area the air bag inflates such as the door, side door glass, front and rear pillar.
- Do not place any objects between the door and the seat. They may become dangerous projectiles if the side air bag inflates.
- Do not install any accessories on the side or near the side air bags.
- Do not hang heavy items on the coat hooks for safety reasons.

Curtain air bag (if equipped)





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

Curtain air bags are located along both sides of the roof rails above the center pillar.

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

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

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impact. The curtain air bags are not designed to deploy in all side impact situations, collisions from the front or rear of the vehicle or in most rollover situations.

* NOTICE

if equipped with rollover sensor

- Also, both sides of the curtain air bags deploy in certain rollover situations.
- The curtain air bag may deploy when the rollover sensor detects the situation as a rollover.

A WARNING

- In order for side and curtain air bags to provide their best protection, front seat occupants and outboard rear occupants should sit in an upright position with the seat belts properly fastened. Importantly, children should sit in a proper child restraint system in the rear seat.
- When children are seated in the rear outboard seats, they must be seated in the proper child restraint system. Make sure to position the child restraint system as far away from the door side as possible, and secure the child restraint system in a locked position.

- 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 air bags.
- Never try to open or repair any components of the side curtain air bag system. If necessary, have the system serviced by a professional workshop. Kia recommends to visit an authorized Kia dealer/ service partner.

Failure to follow the above instructions can result in injury or death to the vehicle occupants in an accident.

WARNING

No attaching objects

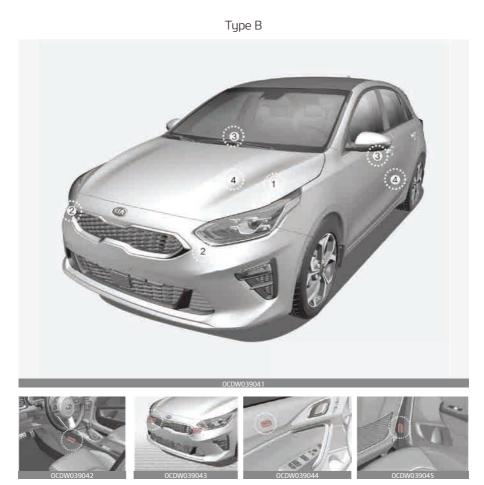
- Do not place any objects over the air bag. Also, do not attach any objects around the area the air bag inflates such as the door, side door glass, front and rear pillar, roof side rail.
- Do not hang hard or breakable objects on the clothes hanger.

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Air bag collision sensors







- * The actual air bag collision sensors in the vehicle may differ from the illustration.
- 1. SRS control module/Rollover sensor (if equipped)
- 2. Front impact sensor
- 3. Side pressure sensors
- 4. Side impact sensor

A WARNING

- 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, causing severe injury or death. Therefore, do not try to perform maintenance on or around the air bag sensors. Have the system serviced by a professional workshop. Kia recommends to visit an authorized Kia dealer/ service partner.
- Problems may arise if the sensor installation angles are changed due to the deformation of the front bumper, body or B pillars where side collision sensors are installed. In this case, have the system serviced by a professional workshop. Kia recommends to visit an authorized Kia dealer/ service partner.
- Your vehicle has been designed to absorb impact and deploy the air bag(s) in certain collisions. Installing bumper guards or replacing a bumper with nongenuine parts may adversely

affect your vehicle's collision and air bag deployment performance.

A WARNING

If equipped with rollover sensor

If your vehicle is equipped with side and curtain air bag, set the ignition switch to OFF or ACC position when the vehicle is being towed. The side and curtain air bag may deploy when the ignitions is ON, and the rollover sensor detects the situation as a rollover.

Why didn't my air bag go off in a collision? (Inflation and noninflation conditions of the air bag)

There are many types of accidents in which the air bag would not be expected to provide additional protection.

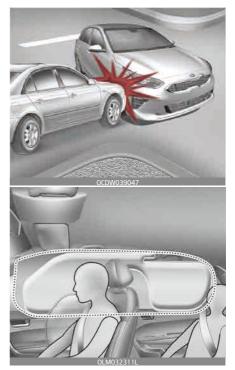
These include rear impacts, second or third collisions in multiple impact accidents, as well as low speed impacts.

Air bag inflation conditions

Front air bags



Front air bags are designed to inflate in a frontal collision depending on the intensity, speed or angles of impact of the front collision.



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

Side and curtain air bags

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

Although the front air bags (driver's and front passenger's air bags) are designed to inflate only in frontal collisions, they also may inflate in other types of collisions if the front impact sensors detect a sufficient impact. Side and curtain air bags are designed to inflate only in side impact collisions, but they may inflate in other collisions if the side impact sensors detect a sufficient impact.

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

* NOTICE

If equipped with rollover sensor

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

Air bag non-inflation conditions



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

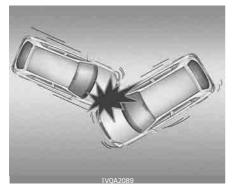


 Frontal air bags are not designed to inflate in rear collisions, because occupants are moved backward by the force of the impact. In this case, inflated air bags would not be able to provide any additional benefit.

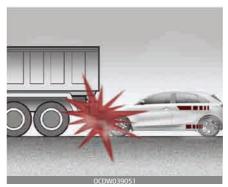
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 Front air bags may not inflate in side impact collisions, because occupants move to the direction of the collision, and thus in side impacts, frontal air bag deployment would not provide additional occupant protection. However, side and curtain air bags may inflate depending on the intensity, vehicle speed and angles of impact.



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



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



• Air bags do not inflate in most rollover accidents, even though

the vehicle is equipped with side air bags and curtain air bags.

* NOTICE

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

* NOTICE

If equipped with rollover sensor

However, if equipped with side and curtain air bags, the air bags may inflate in a rollover, when it is detected by the rollover sensor.

* NOTICE

without rollover sensor

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



 Air bags may not inflate if the vehicle collides with objects such as utility poles or trees, where the point of impact is concentrated to one area and the full force of the impact is not delivered to the sensors.

SRS Care

The SRS is virtually maintenancefree and so there are no parts you can safely service by yourself. If the SRS air bag warning light does not illuminate, or continuously remains on, have the system inspected by a professional workshop.

Kia recommends to visit an authorized Kia dealer/service partner.

WARNING

- Modification to SRS components or wiring, including the addition of any kind of badges to the pad covers or modifications to the body structure, can adversely affect SRS performance and lead to possible injury.
- For cleaning the air bag pad covers, use only a soft, dry cloth or one which has been moistened with plain water. Solvents or cleaners could adversely affect the air bag covers and proper deployment of the system.

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- No objects should be placed over or near the air bag modules on the steering wheel, instrument panel, and the front passenger's panel above the glove box, because any such object could cause harm if the vehicle is in a crash severe enough to cause the air bags to inflate.
- If the air bags inflate, have the system replaced by a professional workshop. Kia recommends to visit an authorized Kia dealer/ service partner.
- Do not tamper with or disconnect SRS wiring, or other components of the SRS system. Doing so could result in injury, due to accidental inflation of the air bags or by rendering the SRS inoperative.
- If components of the air bag system must be discarded, or if the vehicle must be scrapped, certain safety precautions must be observed. 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 personal injury.
- If your car was flooded and has soaked carpeting or water on flooring, you shouldn't try to start the engine; in this case, have your vehicle inspected by a professional workshop. Kia recommends to

contact an authorized Kia dealer/ service partner.

Additional safety precautions

- Never let passengers ride in the cargo area or on top of a foldeddown back seat. All occupants should sit upright, fully back in their seats with their seat belts on and their 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 is designed to restrain one occupant. If more than one person uses the same seat belt, they could be seriously injured or killed in a collision.
- Do not use any accessories on seat belts. Devices claiming to improve occupant comfort or reposition the seat belt can reduce the protection provided by the seat belt and increase the chance of serious injury in a crash.
- 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.

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- 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. All infants and children should be properly restrained in appropriate child safety seats or seat belts in the rear seat.

A 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, 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 label (if equipped)



Air bag warning labels are attached to alert the driver and passengers of potential risk of air bag system.

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Note that these government warnings focus on the risk of children. We also want you to be aware of the risks which adults are exposed to.

Those have been described in previous pages.

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FEATURES OF YOUR VEHICLE

Keys

Record your key number

The key code number is stamped on the key code tag attached to the key set. Should you lose your keys, Kia recommends to contact an authorized Kia dealer/service partner. Remove the key code tag and store it in a safe place. Also, record the key code number and keep it in a safe and handy place, but not in the vehicle. • To fold the key, fold the key manually while pressing the release button.

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

Smart key

Smart key

Key operations

Folding key

Folding key



OBDC049028RE

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

- To remove the mechanical key, press and hold the release button (1) and remove the mechanical key (2).
- To reinstall the mechanical key, put the key into the hole and push it until a click sound is heard.

A WARNING

Ignition key (Smart key)

Leaving children unattended in a vehicle with the ignition key (smart key) is dangerous even if the key is

not in the ignition switch or start button is ACC or ON position. Children copy adults and they could place the key in the ignition switch or press the start button. The ignition key (smart key) would enable children to operate power windows or other controls, or even make the vehicle move, which could result in serious bodily injury or even death. Never leave the keys in your vehicle with unsupervised children, when the engine is running.

A WARNING

Kia recommends to use parts for replacement from an authorized Kia dealer/service partner. If an aftermarket key is used, the ignition switch may not return to ON after START. If this happens, the starter will continue to operate causing damage to the starter motor and possible fire due to excessive current in the wiring.

Immobilizer system

Your vehicle may be equipped with an electronic engine immobilizer system to reduce the risk of unauthorized vehicle use.

Your immobilizer system is comprised of a small transponder in the ignition key and electronic devices inside the vehicle.

Vehicles without smart key system

With the immobilizer system, whenever you insert your ignition key into the ignition switch and turn it to ON, it checks and determines and verifies if the ignition key is valid or not.

If the key is valid, the engine will start.

If the key is invalid, the engine will not start.

To deactivate the immobilizer system:

Insert the ignition key into the key cylinder and turn it to the ON position.

To activate the immobilizer system:

Turn the ignition key to the OFF position. The immobilizer system activates automatically. Without a valid ignition key for your vehicle, the engine will not start.

Vehicles with smart key system

Whenever the ENGINE START/STOP button is changed to the ON position, the immobilizer system checks and verifies if the key is valid or not.

If the key is valid, the engine will start.

If the key is invalid, the engine will not start.

To deactivate the immobilizer system

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

To activate 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.

A WARNING



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

* NOTICE

When starting the engine, do not use the key with other immobilizer keys around. Otherwise the engine may not start or may stop soon after it starts. Keep each key separate in order to avoid a starting malfunction.

A CAUTION

Do not put metal accessories near the ignition switch. Metal accessories may interrupt the transponder signal and may prevent the engine from being started.

* NOTICE

If you need additional keys or lose your keys, Kia recommends to visit an authorized Kia dealer/service partner.

A CAUTION

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

A CAUTION

Do not change, alter or adjust the immobilizer system because it could cause the immobilizer system to malfunction. In this case, have the system serviced by a professional workshop. Kia recommends to visit an authorized Kia dealer/service partner.

Malfunctions caused by improper alterations, adjustments or

modifications to the immobilizer system are not covered by your vehicle manufacturer warranty.

Remote keyless entry (if equipped)

Remote keyless entry system operations

Folding key



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Smart Key



Lock (1)

All doors (and tailgate) are locked if the lock button is pressed while all doors are closed. The hazard warning lights will blink once to indicate that all doors are locked.

However, if any door, engine hood or tailgate remains open, the hazard warning lights will not operate. If all doors, engine hood and tailgate are closed after the lock button is pressed, the hazard warning lights will blink once.

Unlock (2)

All doors (and tailgate) are unlocked if the unlock button is pressed.

The hazard warning lights will blink twice to indicate that all doors are unlocked.

After pressing this button, the doors will lock automatically unless you open any door within 30 seconds.

Tailgate unlock (3) (if equipped)

The tailgate is unlocked if the button is pressed for more than 1 second.

The hazard warning lights will blink twice to indicate that the tailgate is unlocked.

However, after pressing this button, the tailgate will lock automatically unless you open the tailgate within 30 seconds.

Also, once the tailgate is opened and then closed, the tailgate will lock automatically. With the tailgate locked and the smart key in your possession, press the tailgate open switch. Then, the tailgate will be opened.

* The word "HOLD" is written on the button to inform you that you must press and hold the button for 1 second.

Transmitter precautions

* NOTICE

The transmitter will not work if any of the following occurs:

- The ignition key is in the ignition switch.
- You exceed the operating distance limit (about 10 m [30 feet]).
- The battery in the transmitter is weak.
- Other vehicles or objects may be blocking the signal.
- The weather is extremely cold.
- The transmitter is close to a radio transmitter such as a radio station or an airport which can interfere with normal operation of the transmitter.

When the transmitter does not work correctly, open and close the door with the ignition key. If you have a problem with the transmitter Kia recommends to contact an authorized Kia dealer/service partner.

• If the transmitter is in close proximity to your cell phone or

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smart phone, the signal from the transmitter could be blocked by normal operation of your cell phone or smart phone. This is especially important when the phone is active such as making call, receiving calls, text messaging, and/or sending/ receiving emails.

Avoid placing the transmitter and your cell phone or smart phone in the same pants or jacket pocket and maintain adequate distance between the two devices.

A CAUTION

- Keep the transmitter away from water or any liquid. If the keyless entry system is inoperative due to exposure to water or liquids, it will not be covered by your manufacturer vehicle warranty.
- Keep the transmitter away from electromagnetic materials that blocks electromagnetic waves to the key surface.

A CAUTION

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.

Battery replacement



The transmitter uses a 3 volt lithium battery which will normally last for several years. When replacement is necessary, use the following procedure.

- 1. Insert a slim tool into the slot and gently pry open the transmitter or smart key cover.
- 2. Replace the battery with a new battery (CR2032). When replacing the battery, make sure the battery position.
- 3. Install the battery in the reverse order of removal.

For transmitter replacement, Kia recommends to visit an authorized Kia dealer/service partner.

CAUTION



- The keyless entry system transmitter is designed to give you years of trouble-free use, however it can malfunction if exposed to moisture or static electricity. If you are unsure how to use or replace the battery, Kia recommends to contact an authorized Kia dealer/service partner.
- Using the wrong battery can cause the transmitter or smart key to malfunction. Be sure to use the correct battery.
- To avoid damaging the transmitter or smart key, don't drop it, get it wet, or expose it to heat or sunlight.

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

Smart key (if equipped)



With a smart key, you can lock or unlock a door (and tailgate) and even start the engine without inserting the key.

The functions of buttons on a smart key are similar to the folding key.

Smart key functions



Carrying the smart key, you may lock and unlock the vehicle doors (and tailgate). Also, you may start the engine. Refer to the following, for more details. 4

Locking (1)

Pressing the button of the front outside door handles with all doors (and tailgate) closed and any door unlocked, locks all the doors (and tailgate). If all doors (and tailgate) and engine hood are closed, the hazard warning lights will blink once to indicate that all doors (and tailgate) are locked.

The button will only operate when the smart key is within $0.7 \sim 1 \text{ m}$ (28 ~ 40 in.) from the outside door handle. If you want to make sure that a door has locked or not, you should check the door lock button inside the vehicle or pull the outside door handle.

Even though you press the outside door handle buttons, the doors will not lock and the chime will sound for 3 seconds if any of following occur:

- The smart key is in the vehicle.
- The ENGINE START/STOP button is in the ACC or ON position.
- Any door except the tailgate is open.

Unlocking (2)

Pressing the button of the front outside door handles with all doors (and tailgate) closed and locked, unlocks all the doors (and tailgate). The hazard warning lights blink twice to indicate that all doors (and tailgate) are unlocked. The button will only operate when the smart key is within $0.7 \sim 1 \text{ m}$ $(28 \sim 40 \text{ in.})$ from the outside door handle.

When the smart key is recognized in the area of $0.7 \sim 1 \text{ m} (28 \sim 40 \text{ in.})$ from the front outside door handle, other people can also open the door without possession of the smart key.

After pressing the button, the doors will lock automatically unless you open any door within 30 seconds.

Tailgate unlocking (3)

If you are within 0.7 m ~ 1 m (28 ~ 40 in.) from the outside tailgate handle, with your smart key in possession, the tailgate will unlock and open when you press the tailgate handle switch.

The hazard warning lights will blink twice to indicate that the tailgate is unlocked.

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

Start-up

You can start the engine without inserting the key. For detailed information refer to "Starting the engine with smart key" on page 6-18.

Smart key precautions

* NOTICE

- If, for some reason, you happen to lose your smart key, you will not be able to start the engine. Tow the vehicle, if necessary, contact a professional workshop. Kia recommends to contact an authorized Kia dealer/service partner.
- A maximum of 2 smart keys can be registered to a single vehicle. If you lose a smart key, Kia recommends to contact an authorized Kia dealer/service partner.
- The smart key will not work if any of the following occurs:
 - The smart key is close to a radio transmitter such as a radio station or an airport which can interfere with normal operation of the smart key.
 - The smart key is near a mobile two-way radio system or a cellular phone.
 - Another vehicle's smart key is being operated close to your vehicle.

When the smart key does not work properly, open and close the door with the mechanical key. If you have a problem with the smart key, Kia recommends to contact an authorized Kia dealer/service partner. If the smart key is in close proximity to your cell phone or smart phone, the signal from the smart key could be blocked by normal operation of your cell phone or smart phone. This is especially important when the phone is active such as making call, receiving calls, text messaging, and/or sending/ receiving emails. Avoid placing the smart key and your cell phone or smart phone in the same pants or jacket pocket and maintain adequate distance between the two devices.

▲ CAUTION

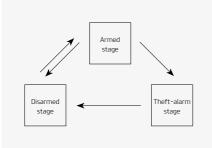
Keep the smart key away from water or any liquid. If the keyless entry system is inoperative due to exposure to water or liquids, it will not be covered by your manufacturer's vehicle warranty.

Theft-alarm system



Vehicles equipped with a theft alarm system will have a label attached to the vehicle with the following words: 1. WARNING

2. SECURITY SYSTEM



This system is designed to provide protection from unauthorized entry into the car. This system is operated in three stages: the first is the "Armed" stage, the second is the "Theft-alarm" stage, and the third is the "Disarmed" stage. If triggered, the system provides an audible alarm with blinking of the hazard warning lights.

Armed stage

Using the smart key

Park the vehicle and stop the engine. Arm the system as described below.

- 1. Turn off the engine.
- 2. Make sure that all doors (and tailgate) and the engine hood are closed and latched.
 - Lock the doors by pressing the button of the front outside door handle with the smart key in your possession.

After completion of the steps above, the hazard warning lights operate once to indicate that the system is armed. If any door remains open, the doors won't lock and the chime will sound for 3 seconds. Close the door and try again to lock the doors. If tailgate or engine hood remains open, the hazard warning lights won't operate and theft-alarm will not arm. After this, if the tailgate and engine hood are closed, the hazard warning lights will blink once.

 Lock the doors by pressing the lock button on the smart key. After completion of the steps above, the hazard warning lights will operate once to indicate that the system is armed. If any door (and tailgate) or engine hood remains open, the hazard warning lights won't operate and theft-alarm will not arm. After this, if all doors (and tailgate) and engine hood are closed, the hazard warning lights blink once.

Using the transmitter

Park the vehicle and stop the engine. Arm the system as described below.

- 1. Turn off the engine and remove the ignition key from the ignition switch.
- 2. Make sure that all doors (and tailgate), the engine hood are closed and latched.
- 3. Lock the doors by pressing the lock button on the transmitter. After completion of the steps above, the hazard warning lights will blink once to indicate that the system is armed. If any door (and tailgate) or engine hood remains open, the hazard warning lights won't operate and theft-alarm will not arm. After this, if all doors (and tailgate) and engine hood are closed, the hazard warning lights blink once.

A CAUTION

Do not arm the system until all passengers have left the vehicle. If the system is armed while a passenger(s) remains in the vehicle, the alarm may be activated when the remaining passenger(s) leave the vehicle. If any door, tailgate or engine hood is opened within 30 seconds after entering the armed stage, the system is disarmed to prevent unnecessary alarm.

Theft-alarm stage

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

- A door is opened without using the transmitter (or smart key).
- The tailgate is opened without using the transmitter (or smart key).
- The engine hood is opened.

The horn will sound and the hazard warning lights will blink continuously for approximately 30 seconds. To turn off the system, unlock the doors with the transmitter (or smart key).

Disarmed stage

The system will be disarmed when:

Transmitter (Folding key)

- The door unlock button is pressed.
- The engine is started.
- The ignition switch is in the "ON" position for 30 seconds or more.

Smart key

• The door unlock button is pressed.

4

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

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

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

* NOTICE

Non-immobilizer system

- Avoid trying to start the engine while the alarm is activated. The vehicle starting motor is disabled during the theft-alarm stage. If the system is not disarmed with the transmitter, insert the key into the ignition switch, turn the ignition switch to the ON position and wait for 30 seconds. Then the system will be disarmed.
- If you lose your keys, Kia recommends to visit an authorized Kia dealer/service partner.

* NOTICE

Immobilizer system

• If the system is not disarmed with the transmitter, insert the key into the ignition switch and start the engine. Then the system will be disarmed. If you lose your keys, Kia recommends to visit an authorized Kia dealer/service partner.

A CAUTION

Do not change, alter or adjust the theft-alarm system because it could cause the theft-alarm system to malfunction. Have the system serviced by a professional workshop. Kia recommends to visit an authorized Kia dealer/service partner.

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

Door locks

Operating door locks from outside the vehicle

Mechanical key



To remove the cover:

- 1. Pull out the door handle.
- 2. Press the lever (1) located inside the bottom part of the cover with a key or flat-head screwdriver.
- 3. Push out the cover (2) while pressing the lever.
- Turn the key toward the front of the vehicle to lock and toward the rear of the vehicle to unlock.
- If you lock/unlock the driver's door with a key, the driver's door will lock/unlock automatically.
- Once the doors are unlocked, they may be opened by pulling the door handle.
- When closing the door, push the door by hand. Make sure that doors are closed securely.

Transmitter/Smart key

- Doors can be locked and unlocked with the transmitter (or smart key). (if equipped)
- Doors can be locked and unlocked pressing the button of the outside door handle with the smart key in your possession.
- Once the doors are unlocked, they may be opened by pulling the door handle.
- When closing the door, push the door by hand. Make sure that doors are closed securely.

* NOTICE

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

WARNING

- If you don't close the door securely, the door may open again.
- Be careful that someone's body and hands are not trapped when closing the door.

A WARNING

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

A CAUTION



Do not frequently repeat opening and closing of doors, or apply excessive force to a door while the door closer is operating.

In case of an emergency



If the power door lock switch does not operate electrically, the only way to lock the door(s) is with the mechanical key from the outside key hole.

Doors without the outside key hole, you can lock the door as follows: 1. Open the door.

- 2. Insert the key into the emergency door lock hole and turn the key toward the outer of the vehicle to lock (1).
- 3. Close the door securely.



Once the tailgate is closed when the power door lock switch does not operate electrically, you will not be able to open the tailgate.

Operating door locks from inside the vehicle

With the door handle



Front door

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

Rear door

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

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

A WARNING

Door lock malfunction

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

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

A WARNING



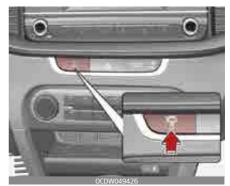
Do not pull the inner door handle of driver's (or passenger's) door while the vehicle is moving.

With central door lock/unlock switch

Type A



Type B



It is operated by pressing the door lock/unlock switch.

- When you press the central door lock switch while any door is unlocked, all vehicle doors will lock and the indicator light on the switch will illuminate.
- If any front door is opened when the switch is pressed, all doors will not lock.

_____ 21

- If any door is unlocked, the indicator of the central door lock switch will blink.
- When you press the central door lock switch, all doors are locked.
- If any door is unlocked while all doors are locked, the indicator will blink.

* NOTICE

Once the doors are locked with the transmitter or smart key, the doors cannot be unlocked with the central door lock/unlock switch.

A WARNING

Doors

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

WARNING

Unlocked vehicles

Leaving your vehicle unlocked can invite theft or possible harm to you or others from someone hiding in your vehicle while you are gone. Always remove the ignition key, engage the parking brake, close all windows and lock all doors when leaving your vehicle unattended.

A WARNING

Unattended children

An enclosed vehicle can become extremely hot, causing death or severe injury to unattended children or animals who cannot escape the vehicle. Furthermore, children might operate features of the vehicle that could injure them, or they could encounter other harm, possibly from someone gaining entry to the vehicle. Never leave children or animals unattended in your vehicle.

Impact sensing door unlock system

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

Speed sensing door lock system

All doors will be automatically locked after the vehicle speed exceeds 15 km/h. And all doors will be automatically unlocked when you turn the engine off and when you remove the ignition key. (if equipped)

Child-protector rear door lock



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

- 1. Open the rear door.
- 2. Insert a key (or screwdriver) into the hole and turn it to the lock (
 position (1). When the child safety lock is in the lock position, the rear door will not open even though the inner door handle (2) is pulled.
- 3. Close the rear door.

To open the rear door, pull the outside door handle.

Even though the doors may be unlocked, the rear door will not open by pulling the inner door handle until the rear door child safety lock is unlocked.

A WARNING

Rear door locks

If children accidentally open the rear doors while the vehicle is in motion, they could fall out and be severely injured or killed. To prevent children from opening the rear doors from the inside, the rear door safety locks should be used whenever children are in the vehicle.

Tailgate

Tailgate

Shooting Brake

Non-power tailgate

Opening the tailgate

5 Door



Wagon



DCDW049042





- The tailgate is locked or unlocked when all doors are locked or unlocked with the transmitter (or smart key) or central door lock switch.
- If unlocked, the tailgate can be opened by pressing the handle and pulling it up.
- When all doors are locked if the tailgate unlock button on the smart key is pressed for more than 1 second, the tailgate is unlocked. Once the tailgate is

opened and then closed, the tailgate is locked automatically.

* The tailgate has no keyhole.

* NOTICE

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

A WARNING

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

▲ CAUTION

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

Closing the tailgate

5 Door







OCDW049043

Shooting Brake



Tailgate

CUV



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

A WARNING

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

A CAUTION

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

A WARNING

Exhaust fumes

If you drive with the tailgate open, you will draw dangerous exhaust fumes into your vehicle which can cause serious injury or death to vehicle occupants. If you must drive with the tailgate open, keep the air vents and all windows open so that additional outside air comes into the vehicle. The tailgate lid should be always kept completely closed while the vehicle is in motion. If it is left open or ajar, poisonous exhaust gases may enter the car and serious illness or death may result.

A 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.

A WARNING

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

Tailgate

extreme caution, especially while the vehicle is in motion.

Emergency tailgate safety release

Your vehicle is equipped with the emergency tailgate safety release lever located on the bottom of the tailgate. When someone is inadvertently locked in the luggage compartment.



Wagon

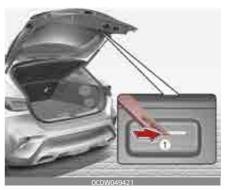




Shooting Brake

D 10494





The tailgate can be opened by doing as follows:

- 1. Input the mechanical key into the hole.
- 2. Push the mechanical key to the right (1).
- 3. Push up the tailgate.

Power tailgate (if equipped)



1. Power tailgate open/close button



2. Power tailgate handle switch



3. Power tailgate close button



4. Power tailgate open/close button

* NOTICE

If ignition switch is ON position, the power tailgate can operate when the automatic shift lever is in P (Park) or manual shift lever is in N (Neutral).

*** NOTICE**

Do not put heavy stuffs on the power tailgate when you operate the power tailgate. Additional weight on tailgate could cause damages to the system.

A WARNING

Never leave children or animals unattended in your vehicle. Children or animals might operate the power tailgate that could result in injury to themselves or others, or damage the vehicle.





Make sure that there are no people or objects in the path of the power tailgate (or smart tailgate) prior to use. Serious injury, damage to the vehicle or damage to surrounding objects may result if contact with the power tailgate (or smart tailgate) occurs.



Do not close or open the power tailgate manually. This may cause damage to the power tailgate. If it is necessary to close or open the power tailgate manually when the battery is discharged or disconnected, do not apply excessive force.

Opening the tailgate

The power tailgate will open automatically by doing one of the following and the buzzer will sound twice at the beginning of open. • Press the power tailgate open button (1) for approximately one second.



Press the tailgate handle switch
 (2) carrying the smart key with
 you.



The power tailgate will open automatically by doing one of the following:

• Press the tailgate open/close button (4) on the smart key for approximately one second.



Closing the tailgate

The power tailgate will close automatically by doing one of the following:

 To close power tailgate completely when tailgate is opened, you must press the close button

 until it is closed. During the closing operation buzzer sounds continuously. If you release the close button(1) while closing, the tailgate will stop closing and the buzzer will sound approximately for 5 seconds.



 Press the power tailgate close button (3) when the tailgate is opened. The tailgate will close and lock automatically.
 At the beginning of the closure, the buzzer will sound twice.



• Press the tailgate open/close button (4) on the key and hold until the tailgate is fully closed.



 Releasing the tailgate open/ close button (4) on the key stops tailgate movement with the buzzer sound approximately for 5 seconds.





If you exceed the operating distance limit (about 10m) during closing by pressing the tailgate button on the key and holding, it will stop tailgate movement with the buzzer sound for 5 seconds.

Power tailgate non-opening conditions

The power tailgate will not open automatically, when the vehicle is moving more than 3km/h (2mph).

A WARNING

The chime will sound continuously if you drive over 3km/h (2mph) with the tailgate opened. Stop your vehicle immediately at a safe place and check if your tailgate is opened.

A CAUTION

Do not operate the power tailgate more than 5 times continuously. It may damage the power tailgate system. If you operate the power tailgate more than 5 times continuously, the chime will sound 3 times and the power tailgate will not operate. At this time, stop operating the tailgate and leave it for more than 1 minute.

* NOTICE



- The power tailgate can be operated when the engine is not running. However the power tailgate operation consumes large amounts of vehicle electric power.
- To prevent the battery from being discharged, do not operate it excessively e.g.: more than approximately 10 times repeatedly.

To prevent the battery from being discharged, do not leave the power tailgate in the open position for a long lime.

- Do not modify or repair any part of the power tailgate by yourself. Kia recommends to visit an authorized Kia dealer/service partner.
- When jacking up the vehicle to change a tire or repair the vehicle, do not operate the power tailgate. This could cause the power tailgate to operate improperly.
- In cold and wet climates, the power tailgate may not work properly due to freezing conditions.

How to reset the power tailgate

If the battery has been discharged or disconnected, or if the related fuse has been replaced or disconnected, for the power tailgate to operate normally, reset the power tailgate as follow:

- Automatic Transmission/Dual clutch transmission
 Put the shift lever in P (Park).
 Manual Transmission: Put the shift lever in N (Neutral).
- 2. While Pressing the tailgate close button (3), press the tailgate handle switch (2) for more than 3 seconds. (the buzzer will sound)
- Close the tailgate using the button (3).

If the power tailgate does not work properly after the above procedure, have the system checked by a professional workshop. Kia recommends to visit an authorized Kia dealer/service partner.

* NOTICE



If the power tailgate does not operate normally, check again if the gear shift lever is in the correct position.

Power tailgate opening height user setting (if equipped)

The driver may set the height of a fully opened tailgate by following the below instruction.



- 1. Position the tailgate manually to the height you prefer.
- 2. Press the tailgate close button (3) for more than 3 seconds.
- Close the tailgate using the button
 (3) after hearing the buzzer sound.

The tailgate will open to the height the driver has set up.

Smart tailgate (if equipped)



On the vehicle equipped with a smart key, the tailgate can be opened with no-touch activation using the Smart tailgate system.

How to use the Smart Tailgate

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

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

* NOTICE

- The Smart Tailgate does not operate when:
 - The smart key is detected within 15 seconds after the doors are closed and locked, and is continuously detected.
 - The smart key is detected within 15 seconds after the doors are closed and locked, and 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 in the vehicle.

1. Setting

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

* For more details, refer to "LCD windows (if equipped)" on page 4-69.

2. Detect and Alert



If you are positioned in the detecting area (50 ~100 cm behind the vehicle) carrying a smart key, the hazard warning lights will blink and chime will sound for about 3 seconds to alert you the smart key has been detected and the tailgate will open.

* NOTICE

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

3. Automatic opening



The hazard warning lights will blink and chime will sound 2 times and then the tailgate will slowly open.

A WARNING



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

How to deactivate the Smart Tailgate function using the smart key



- 1. Door lock
- 2. Door unlock
- 3. Tailgate open

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

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

* NOTICE

- If you press the door unlock button (2), the Smart Tailgate function will be deactivated temporarily. But, if you do not open any door for 30 seconds, the Smart Tailgate function will be activated again.
- If you press the tailgate open button (3) for more than 1 second, the tailgate opens.

- If you press the door lock button

 or tailgate open button (3)
 when the Smart Tailgate function
 is not in the Detect and Alert
 stage, the Smart Tailgate function
 will not be deactivated.
- In case you have deactivated the Smart Tailgate function by pressing the smart key button and opened a door, the Smart Tailgate function can be activated again by closing and locking all doors.

Detecting area



- The Smart Tailgate operates with a welcome alert if the smart key is detected within 50~100 cm from the tailgate.
- The alert stops at once if the smart key is positioned outside the detecting area during the Detect and Alert stage.

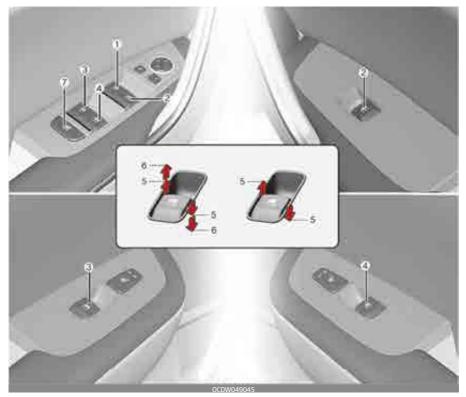
* NOTICE

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

Tailgate

35

Windows



- 1. Driver's door power window switch
- 2. Front passenger's door power window switch
- 3. Rear door (left) power window switch
- 4. Rear door (right) power window switch
- 5. Window opening and closing
- 6. Automatic power window up*/ down
- 7. Power window lock switch*
- *: if equipped

* NOTICE

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

Power windows (if equipped)

The ignition switch must be in the ON position for power windows to operate.

Each door has a power window switch that controls the door's window. The driver has a power window lock switch which can block the operation of the rear passengers windows. The power windows can be operated for approximately 10 minutes after the ignition key is removed or turned to the ACC or LOCK position. However, if the front doors open, the power windows cannot be operated within the 10 minutes period after ignition key removal. (if equipped)

If the window cannot be closed because it is blocked by objects, remove the objects and close the window.

* NOTICE

While driving with the rear windows down or with the sunroof (if equipped) in an open (or partially open position), your vehicle may demonstrate a wind buffeting or pulsation noise. This noise is a normal occurrence and can be reduced or eliminated by taking the following actions. If the noise occurs with one or both of the rear windows down, partially lower both front windows approximately one inch. If you experience the noise with the sunroof open, slightly reduce the size of the sunroof opening.

WARNING

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

Window opening and closing

The driver's door has a master power window switch that controls all the windows in the vehicle.



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

Auto up/down window (if equipped)



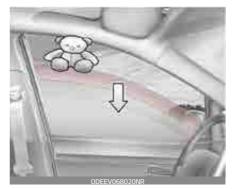
• Pressing or pulling up the power window switch momentarily to the second detent position (6) completely lowers or lifts the window even when the switch is released.

To stop the window at the desired position while the window is in operation, pull up or press and release the switch to the opposite direction of the movement.

If the power window is not operated correctly, the automatic power window system must be reset as follows:

- Turn the ignition switch to the ON position.
- Close the window and continue pulling up on the driver's power window switch for at least 1 second after the window is completely closed.

Automatic reversal



If the upward movement of the window is blocked by an object or part of the body, the window will detect the resistance and will stop upward movement. The window will then lower approximately 30 cm (11.8 in.) to allow the object to be cleared.

If the window detects the resistance while the power window switch is pulled up continuously, the window will stop upward movement then lower approximately 2.5 cm (1 in.). And if the power window switch is pulled up continuously again within 5 seconds after the window is lowered by the automatic window reversal feature, the automatic window reversal will not operate.

* NOTICE

The automatic reverse feature for the driver's window is only active when the "auto up" feature is used by fully pulling up the switch. The automatic reverse feature will not operate if the window is raised using the halfway position on the power window switch.

A WARNING

Always check for obstructions before raising any window to avoid injuries or vehicle damage. If an object less than 4 mm (0.16 in.) 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.

A WARNING

The automatic reverse feature is not active while resetting power window system.

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

Power window lock button (if equipped)



- The driver can disable the power window switches on the rear passenger doors by pressing the power window lock button located on the driver's door to the LOCK position (pressed).
- The driver's master control can operate all passenger's power windows with window lock button pressed.
- The front passenger's control can operate the front passenger's power window.
- The rear passengers' control cannot operate the rear passenger's power window.

CAUTION

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

A WARNING

Windows

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

Remote window closing (if equipped)

Folding key



Smart Keu



When the vehicle is off, if the door lock button (1) is pressed for 3 seconds or more, the door will be locked and the window will start to move up.

The window will go up as much as the lock button (1) pressed and stops when the button is released.

A CAUTION



- If a car window is rolled up with the remote window close but the distance between the remote control and vehicle is changed, the window can stop rolling up. Make sure to operate this function in the vicinity close enough to a vehicle in sight.
- If a window is stuck by certain forces while rolling up, it stops working, but the other three windows will continue to roll up. Make sure that the emergency warning light blinks three times and the rest of windows are completely shut.

Hood

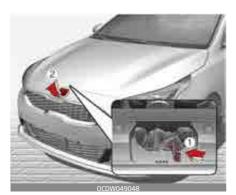
Opening the hood



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

A WARNING

Open the hood after turning off the engine on a flat surface, shifting the shift lever to the P(Park) position for automatic transmission/dual clutch transmission and to the 1(First) gear or R(Reverse) for manual transmission, and setting the parking brake.



2. Go to the front of the vehicle, raise the hood slightly, push the secondary latch (1) inside of the hood center and lift the hood (2).



- 3. Pull the support rod from the hood.
- 4. Hold the hood open with the support rod.

A WARNING

Hot parts

Grasp the support rod in the area wrapped in rubber. The rubber will help prevent you from being burned by hot metal when the engine is hot.

Hood open warning (if equipped)

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



The warning chime will operate when the vehicle is being driven at or above 3 km/h (2 mph) with the hood open.

Closing the hood

- 1. Before closing the hood, check the following:
 - All filler caps in engine compartment must be correctly installed.
 - Gloves, rags or any other combustible material must be removed from the engine compartment.
- 2. Return the support rod to its clip to prevent it from rattling.
- 3. Lower the hood until it is about 30 cm above the closed position and let it drop. Make sure that it locks into place.

 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

- Before closing the hood, ensure that all obstructions are removed from the hood opening. Closing the hood with an obstruction present in the hood opening may result in property damage or severe personal injury.
- Do not leave gloves, rags or any other combustible material in the engine compartment. Doing so may cause a heatinduced fire.

WARNING

- 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 the vehicle is being driven, causing a total loss of visibility, which might result in an accident.
- The support rod must be inserted completely into the hole provided in the hood whenever you inspect the engine compartment. This will prevent the hood from falling and possibly injuring you.
- Do not move the vehicle with the hood raised. The view will be

blocked and the hood could fall or be damaged.



Fuel filler door

Opening the fuel filler door



1. To open the fuel filler door, press the 3 o'clock position edge of the fuel filler door.

* NOTICE

The fuel filler door will open and close only when all doors are unlocked.

* NOTICE

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



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

Closing the fuel filler door

- 1. To install the cap, turn it clockwise until it "clicks". This indicates that the cap is securely tightened.
- 2. Close the fuel filler door and push it lightly and make sure that it is securely closed.

A WARNING

Refueling

 If pressurized fuel sprays out, it can cover your clothes or skin and thus subject you to the risk of fire and burns. Always remove the fuel cap carefully and slowly. If the cap is venting fuel or if you hear a hissing sound, wait until the condition stops before completely removing the cap.

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

A WARNING

Refueling dangers

Automotive fuels are flammable materials. When refueling, please note the following guidelines carefully. Failure to follow these guidelines may result in severe personal injury, severe burns or death by fire or explosion.

- Read and follow all warnings at the gas station facility.
- Before refueling note the location of the Emergency Gasoline Shut-Off, if available, at the gas station facility.
- 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, etc.) capable of producing static electricity. Static electricity discharge can ignite fuel vapors resulting in rapid burning. If you must reenter the vehicle, you should once again eliminate potentially dangerous static electricity discharge by touching a metal part of the vehicle, away from the fuel filler neck, nozzle or other gasoline source.

- When using an approved portable fuel container, be sure to place the container on the ground prior to refueling. Static electricity discharge from the container can ignite fuel vapors causing a fire. Once refueling has begun, contact with the vehicle should be maintained until the filling is complete. Use only approved portable plastic fuel containers designed to carry and store gasoline.
- Do not use cellular phones while refueling. Electric current and/ or electronic interference from cellular phones can potentially ignite fuel vapors causing a fire.
- When refueling, always shut the engine off. 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

------ 45

securely closed, before starting the engine.

- DO NOT use matches or a lighter and DO NOT SMOKE or leave a lit cigarette in your vehicle while at a gas station especially during refueling. Automotive fuel is highly flammable and can, when ignited, result in fire.
- If a fire breaks out during refueling, leave the vicinity of the vehicle, and immediately contact the manager of the gas station and then contact the local fire department. Follow any safety instructions they provide.

A CAUTION

- Make sure to refuel your vehicle according to the "Fuel requirements" suggested in section 1.
- If the fuel filler cap requires replacement, please make sure that you use parts designed for replacement in your vehicle. An incorrect fuel filler cap can result in a serious malfunction of the fuel system or emission control system. For more detailed information, Kia recommends to contact an authorized Kia dealer/ service partner.
- Do not spill fuel on the exterior surfaces of the vehicle. Any type of fuel spilled on painted surfaces may damage the paint.

• After refueling, make sure the fuel cap is installed securely to prevent fuel spillage in the event of an accident.

Panorama sunroof (if equipped)



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

The ignition switch must be in the On position before you can open or close the sunroof.

The sunroof can be operated for approximately 10 minutes after the ignition key is removed or turned to the ACC or LOCK (or OFF) position.

However, if the front door is opened, the sunroof cannot be operated even within the 10 minutes period.

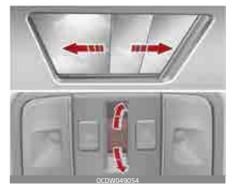
A WARNING

- Make sure heads, other body parts or objects are out of the way before using the sunroof.
- Do not leave the engine running and the key in your vehicle with unsupervised children. Unattended

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

Sunshade

To open the sunshade



• Push the sunroof control lever backward to the first detent position.

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

To close the sunshade when the sunroof glass is closed

 Push the sunroof control lever forward to the first detent position.

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

* NOTICE

Wrinkles formed on the sunshade as material characteristic are normal.

Sliding the sunroof

When the sunshade is closed



 Push the sunroof control lever backward to the second detent position, both the sunshade and sunroof glass will slide all the way open.

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

When the sunshade is opened

• Push the sunshade control lever backward to the first or second detent position, the sunroof glass will be opened.

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

* NOTICE

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

Tilting the sunroof

When the sunshade is closed



 Push the sunroof control lever upward, the sunshade will slide open then the sunroof glass will tilt.

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

When the sunshade is opened

• Push the sunroof control lever upward, the sunroof glass will tilt. To stop the sunroof movement at any point, push the sunroof control lever momentarily.

Closing the sunroof

To close the sunroof glass only



 Push the sunroof control lever forward to the first detent position, the sunroof glass will close automatically.
 To stop the sunroof movement at any point, push the sunroof control lever momentarily.

To close the sunroof glass with the sunshade

 Push the sunroof control lever forward to the second detent position. The sunroof glass and sunshade will close automatically. To stop the sunroof movement at any point, push the sunroof control lever momentarily.

Automatic reverse



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

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

A CAUTION

- Do not continue to press the sunroof control lever after the sunroof is fully opened, closed or tilted. Damage to the motor or system components could occur.
- To prevent damage to the sunroof, periodically remove any dirt that may accumulate on the guide rail.
- If you try to open the sunroof when the temperature is below freezing or when the sunroof is

covered with snow or ice, the glass or the motor could be damaged.

- Make sure the sunroof is fully closed when leaving your vehicle. If the sunroof is opened, rain or snow may leak through the sunroof and wet the interior as well as cause theft.
- Do not extend any luggage outside the sunroof while driving.
- After washing the vehicle or after a rain, be sure to wipe off the water on the sunroof before operating the sunroof.
- Do not pull or push the sunshade by hand as such action may damage the sunshade or cause it to malfunction.
- Close the sunroof when driving in dusty environments. Dust may cause a malfunction of the vehicle system.

WARNING

- In order to prevent accidental operation of the sunroof, especially by a child, do not let a child operate the sunroof.
- Do not extend the face, neck, arms or body outside the sunroof while driving.
- To avoid serious injury or death, do not extend your head, arms or body outside the sunroof while driving.
- When closing the sunroof, make sure there are no body parts in

the movement range of the sliding roof. Parts of the body could become trapped or crushed.

- A panorama sunroof is made of glass, therefore it may break in an accident. If you do not have your seat belt on, you may stick out of the broken glass and get injured or killed. For all passengers safety, have an appropriate protection on (ex. seat belt, CRS, etc.)
- Never adjust the sunroof or sunshade while driving. This could result in loss of control and an accident that may cause death, serious injury or property damage.
- Do not operate the sunroof while using the roof rack to transport cargo. This may cause the cargo to come loose and distract the driver.
- Do not sit on the top of the panoramic sunroof. It may cause vehicle damage.

Resetting the sunroof



The sunroof may need to be reset if the following conditions occur :

- The battery is discharged or disconnected or the sunroof fuse has been replaced or disconnected.
- The sunroof control lever is not operating correctly.
- 1. Start the engine.
- 2. Close the sunshade and sunroof completely if opened.
- 3. Release the sunroof control lever.
- 4. Push the sunroof control lever forward in the direction of close(about 10 seconds) until the sunshade slightly moves. Then, release the lever.
- 5. Push the sunroof control lever forward in the direction of close, until the sunroof operates as follows again:
 Sunshade Open → Glass Tilt Open → Glass Slide Open → Glass Slide Close → Sunshade Close

Then, release the lever.

When this is complete, the sunroof system has been reset and one touch open and close should be restored.

* NOTICE

If you do not reset the sunroof, it may not work properly.

Sunroof open warning (if equipped)



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If the driver removes the ignition key(smart key: turns off the engine) when the sunroof is not fully closed, the warning chime will sound for a few seconds and a warning image will appear in the LCD window. Close the sunroof securely when leaving your vehicle. 4

Steering wheel

Electric Power Steering (EPS)

Power steering uses an electric motor to assist you in steering the vehicle. If the engine is off or if the power steering system becomes inoperative, the vehicle may still be steered, but it will require increased steering effort.

The EPS is controlled by the power steering control unit which senses the steering wheel torque, steering wheel position and vehicle speed to command the motor.

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

Should you notice any change in the effort required to steer during normal vehicle operation, have the system checked by a professional workshop. Kia recommends to visit an authorized Kia dealer/service partner.

* NOTICE

The following symptoms may occur during normal vehicle operation:

- The EPS warning light does not illuminate.
- The steering effort is high immediately after turning the ignition switch on. This happens

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

- A click noise may be heard from the EPS relay after the ignition switch is turned to the ON or LOCK position.
- Motor noise may be heard when the vehicle is at a stop or at a low driving speed.
- If the Electric Power Steering System does not operate normally, the warning light will illuminate on the instrument cluster. The steering wheel may become difficult to control or operate abnormally. In this case, have the system inspected by a professional workshop. Kia recommends to visit an authorized Kia dealer/service partner.
- The steering effort increases if the steering wheel is rotated continuously when the vehicle is not in motion. However, after a few minutes, it will return to its normal conditions.
- When you operate the steering wheel in low temperature, abnormal noise could occur. If temperature rises, the noise will disappear. This is a normal condition.
- When the charging system warning light comes on or

the voltage is low (When the alternator (or battery) does not operate normally or it malfunctions), the steering wheel may get heavy and become difficult to control operate abnormally.

Tilt & telescopic steering

A tilt and telescopic steering wheel allows you to adjust the steering wheel before you drive.

You can also raise it 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

- Never adjust the angle of the steering wheel while driving. You may lose steering control and cause severe personal injury, death or accidents.
- After adjusting, push the steering wheel both up and down to be certain it is locked in position.



To change the steering wheel angle:

Pull down the lock release lever

 adjust the steering wheel to
 the desired angle (2) and height
 (3, if equipped), then pull up
 the lockrelease lever to lock the
 steering wheel in place. Be sure to
 adjust the steering wheel to the
 desired position before driving.

Heated steering wheel (if equipped)



When the ignition switch is in the ON position, pressing the heated steering wheel button warms the

steering wheel. The indicator on the button will illuminate.

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

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

If you turn off the ignition within 30 minutes after pressing the steering wheel heater button, from next ignition ON, the heater will be off.

A CAUTION

- Do not install any grip to operate the steering wheel. This causes damage to the heated steering wheel system.
- When cleaning the heated steering wheel, do not use an organic solvent such as paint thinner, benzene, alcohol and gasoline.
 Doing so may damage the surface of the steering wheel.
- If the surface of steering wheel is damaged by sharp object, damage to the heated steering wheel components could occur.

Horn



To sound the horn:

Press the horn symbols on your steering wheel.

Check the horn regularly to be sure it operates properly.

* NOTICE

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

CAUTION

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

Mirrors

Inside rear view mirror

Adjust the rear view mirror to center on the view through the rear window. Make this adjustment before you start driving.

WARNING



Rear visibility

Do not place objects in the rear seat or cargo area which would interfere with your vision through the rear window.

A WARNING

Do not adjust the rear view mirror while the vehicle is moving. This could result in loss of control, and an accident which could cause death, serious injury or property damage.

A WARNING

Do not modify the inside mirror and do not install a wide mirror. It could result in injury, during an accident or deployment of the air bag.

Day/night rear view mirror (if equipped)



- 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 headlights of the vehicles behind you during night driving.

Remember that you lose some rear view clarity in the night position.

* (1): Day, (2): Night

Electrochromic mirror (ECM) (if equipped)



The electric rear view mirror automatically controls the glare from the headlights of the vehicles behind you in nighttime or low light driving conditions. The sensor (3) mounted in the mirror senses the light level around the vehicle, and automatically controls the headlight glare from the vehicles behind you.

When the engine is running, the glare is automatically controlled by the sensor mounted in the rear view mirror.

Whenever the shift lever is shifted into reverse (R), the mirror will automatically go to the brightest setting in order to improve the drivers view behind the vehicle.

▲ CAUTION

When cleaning 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.

To operate the electric rear view mirror

The mirror defaults to the ON position whenever the ignition switch is turned on.

- Press the ON/OFF button (1) to turn the automatic dimming function off. The mirror indicator light (2) will turn off.
- Press the ON/OFF button (1) to turn the automatic dimming function on. The mirror indicator light (2) will illuminate.

Outside rear view mirror

Be sure to adjust mirror angles before driving.

Your vehicle is equipped with both left-hand and right-hand outside rear view mirrors. The mirrors can be adjusted remotely with the remote switch. The mirror heads can be folded back to prevent damage during an automatic car wash or when passing in a narrow street.

A WARNING

Rear view mirrors

• The outside rear view mirror is convex. Objects seen in the mirror are closer than they appear.

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

A CAUTION

Do not scrape ice off the mirror face: this may damage the surface of the glass. If ice should restrict movement of the mirror, do not force the mirror for adjustment. To remove ice, use a deicer spray, or a sponge or soft cloth with very warm water.

A CAUTION

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.

A WARNING

Do not adjust or fold the outside rear view mirrors while the vehicle is moving. This could result in loss of control, and an accident which could cause death, serious injury or property damage.

Remote control

Electric type



The electric remote control mirror switch allows you to adjust the position of the left and right outside rear view mirrors. To adjust the position of either mirror, the ignition switch should be in the ACC position.

To adjust the position of either mirror,

 Move the R or L switch (1) to select the right side mirror or the left side mirror, then press a corresponding point (▲) on the mirror adjustment control to position the selected mirror up, down, left or right.

CAUTION

 The mirrors stop moving when they reach the maximum adjusting angles, but the motor continues to operate while the switch is pressed. Do not press the

57

switch longer than necessary, the motor may be damaged.

• Do not attempt to adjust the outside rear view mirror by hand. Doing so may damage the parts.

Folding the outside rear view mirror

Electric Type (if equipped)



- To fold the outside rear view mirror depress the button.
- To unfold it, depress the button again.
- With smart key system
 - The mirror will fold or unfold when the door is locked or unlocked by the smart key. (if equipped)
 - The mirror will fold or unfold when the door is locked or unlocked by the button on the outside door handle. (if equipped)
 - The mirror will unfold when you approach the vehicle (all doors

closed and locked) with a smart key in possession. (if equipped)

A CAUTION

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

In case it is an electric type outside rear view mirror, don't fold it by hand. It could cause motor failure.

Manual type



To fold outside rear view mirror,

• Grasp the housing of mirror and then fold it toward the rear of the vehicle.

Instrument cluster

Type A



Type B



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Type C



- * The actual cluster in the vehicle may differ from the illustration.
- 1. Tachometer
- 2. Speedometer
- 3. Engine coolant temperature gauge
- 4. Fuel gauge
- 5. Warning and indicator lights
- 6. LCD display

For more details, refer to the "Gauges" on page 4-62 and "Warning and Indicator lights" on page 4-82.

Instrument cluster control

Adjusting Instrument Cluster Illumination



A WARNING



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

The brightness of the instrument panel illumination is changed by pressing the illumination control button ("+" or "-") when the ignition switch or ENGINE START/STOP button is ON, or the tail lights are turned on.



- If you hold the illumination control button ("+" or "-"), the brightness will be changed continuously.
- If the brightness reaches to the maximum or minimum level, an alarm will sound.

LCD window control

The LCD Window modes can be changed by using the control buttons on the steering wheel.



CDW049436

Gauges

Speedometer

Type A (km/h)



Type A (MPH, km/h)



- 1. I : MODE button for change the LCD MODES
- 2. / / · · · MOVE scroll switch for select the items
- 3. OK: SET/RESET button for set the items or reset the items
- * For the LCD modes, refer to "LCD Window (if equipped)" on page 4-69.



DCDW049068

Type B (km/h)



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

Type A (Diesel)



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Type B (Gasoline)

Tachometer

Type A (Gasoline)





Type B (Diesel)



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

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

A CAUTION

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

Engine Coolant Temperature Gauge

Type A



7 7 8 <u>1</u> 50

Type B

This gauge indicates the temperature of the engine coolant when the ignition switch or ENGINE START/STOP button is ON.

A CAUTION

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

Do not continue driving with an overheated engine. If your vehicle overheats, refer to "IF THE ENGINE OVERHEATS" on page 7-8.

WARNING

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

Fuel Gauge

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





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* NOTICE

- The fuel tank capacity is given in chapter 9.
- The fuel gauge is supplemented by a low fuel warning light, which will illuminate when the fuel tank is nearly empty.

 On inclines or curves, the fuel gauge pointer may fluctuate or the low fuel warning light may come on earlier than usual due to the movement of fuel in the tank.

A WARNING

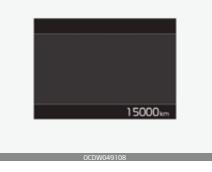
Fuel Gauge

Running out of fuel can expose vehicle occupants to danger. You must stop and obtain additional fuel as soon as possible after the warning light comes on or when the gauge indicator comes close to the "0" level.

A CAUTION

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

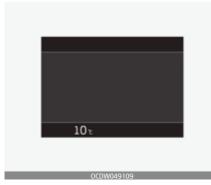
Odometer



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

• Odometer range : 0 ~ 1,599,999 km or 999,999 miles.

Outside Temperature Gauge



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

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

The outside temperature on the display may not change immediately like a general thermometer to prevent the driver from being inattentive.

To change the temperature unit (from °C to °F or from °F to °C).

The temperature unit can be changed by using the "User Settings" mode of the LCD Windows. * For more details, refer to "LCD windows (if equipped)" on page 4-69.

Transmission shift indicator

Automatic Transmission Shift Indicator (if equipped)



This indicator displays which automatic transmission shift lever is selected.

- Park: P
- Reverse R
- Neutral: N
- Drive: D

Manual shift mode

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

Automatic Transmission Shift Indicator in Manual shift mode (if equipped)

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



• Shifting down: ▼1, ▼2, ▼3, ▼4,

▼5

For example

- ▲3: Indicates that shifting up to the 3rd gear is desired (currently the shift lever is in the 2nd or 1st gear).
- ▼3: Indicates that shifting down to the 3rd gear is desired (currently the shift lever is in the 4th, 5th or 6th gear).

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

Manual Transmission Shift Indicator (if equipped)

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

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

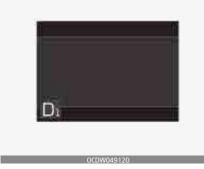
For example

- ▲3: Indicates that shifting up to the 3rd gear is desired (currently the shift lever is in the 2nd or 1st gear).
- ▼4: Indicates that shifting down to the 4th gear is desired (currently the shift lever is in the 5th or 6th gear).

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

4

Dual clutch transmission shift indicator (if equipped)



This indicator displays which shift lever is selected.

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

Manual shift mode

- Shifting up: ▲2, ▲3, ▲4, ▲5, ▲6,
 ▲7
- Shifting down: ▼1, ▼2, ▼3, ▼4,
 ▼5, ▼6

Dual clutch transmission shift Ind icator in Manual shift mode (if equipped)





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

- Shifting up: ▲2, ▲3, ▲4, ▲5, ▲6, ▲7
- Shifting down: ▼1, ▼2, ▼3, ▼4,
 ▼5, ▼6

For example

• ▲3: Indicates that shifting up to the 3rd gear is desired (currently

the shift lever is in the 2nd or 1st gear).

• ▼3: Indicates that shifting down to the 3rd gear is desired (currently the shift lever is in the 4th, 5th, 6th or 7th gear).

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

LCD windows (if equipped)

Overview



LCD windows show the following various information to drivers.

- Trip information
- LCD modes
- Warning messages

4 —

Trip information (Trip computer)

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

* NOTICE

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

Distance to empty

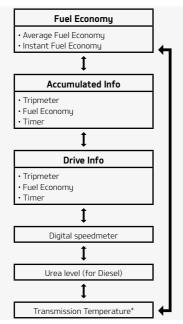


- The distance to empty is the estimated distance the vehicle can be driven with the remaining fuel.
 - Distance range: 1 ~ 9,999 km or 1 ~ 9,999 mi.
- If the estimated distance is below 1 km (1 mi.), the trip computer will display "---" as distance to empty

* NOTICE

- If the vehicle is not on level ground or the battery power has been interrupted, the distance to empty function may not operate correctly.
- The distance to empty may differ from the actual driving distance as it is an estimate of the available driving distance.
- The trip computer may not register additional fuel if less than 6 liters (1.6 gallons) of fuel are added to the vehicle.
- The fuel economy and distance to empty may vary significantly based on driving conditions, driving habits, and condition of the vehicle.

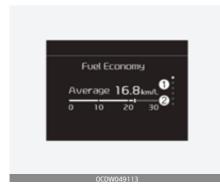
Trip Modes



* for vehicle equipped with dual clutch transmission

To change the trip mode, scroll the MOVE scroll switch (\frown / \frown) in the trip computer mode.

Fuel Economy



Average Fuel Economy (1)

- The average fuel economy is calculated by the total driving distance and fuel consumption since the last average fuel economy reset.
 - Fuel economy range: 0 ~ 99.9km/L, L/100 km or MPG
- The average fuel economy can be reset both manually and automatically.

Manual reset

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

Automatic reset

To make the average fuel economy be reset automatically whenever refueling, select the "Fuel economy auto reset" mode in User Setting menu of the LCD Windows (Refer to "LCD windows (if equipped)" on page 4-69).

- OFF You may set to default manually by using the trip switch reset button.
- After ignition The vehicle will automatically set to default once 4 hours pass after the Ignition is in OFF.
- After refueling After refueling more than 6 liters and driving over 1km/h, the vehicle will reset to default automatically.

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* NOTICE

The average fuel economy is not displayed for more accurate calculation if the vehicle does not drive more than 10 seconds or 50 meters (0.03 miles) since the ignition switch or ENGINE START/STOP button is turned to ON.

Instant Fuel Economy (2)

- This mode displays the instant fuel economy during the last few seconds when the vehicle speed is more than 10 km/h (6.2 MPH).
 - Fuel economy range: 0.0 ~ 30km/L, L/100km or 0.0 ~ 50.0 MPG

Accumulated driving information mode



Displays accumulated information starting from mileage/fuel efficiency/time default point.

- Accumulated information is calculated after the vehicle has run for more than 300 meters.
- If you press "OK" button for more than 1 second after the Cumulative Information is displayed, the information will be reset.
- If the engine is running, even when the vehicle is not in motion, the information will be accumulated.

One time driving information mode



The vehicle will display Driving Information once per one ignition cycle.

- Fuel efficiency is calculated after the vehicle has run for more than 300 meters.
- The Driving Information will be reset 4 hours after ignition has been turned off. So, when the vehicle ignition is turned on within 4 hours, the information will not be reset.
- If you press "OK" button for more than 1 second after the Driving

Information is displayed, the information will be reset.

• If the engine is running, even when the vehicle is not in motion, the information will be accumulated.

Digital speedometer



This mode displays the current speed of the vehicle.

Urea level gauge (for diesel engine)



This mode displays the amount of the remaining urea solution in the urea solution tank.

Transmission temperature gauge (For dual clutch transmission)



This mode displays the transmission temperature.

LCD mode



- 1. Trip Computer mode This mode displays driving information like the tripmeter, fuel economy, and so on.
 - * For more details, refer to "Trip information (Trip computer)" on page 4-70.
- 2. Turn By Turn mode (if equipped) This mode displays the state of the navigation.

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- 3. Assist mode
- A : This mode displays the state of the below functions.
 - Lane Keeping Assist (LKA)
 - Driver Attention Warning (DAW)
 - Smart Cruise Control (SCC) with Stop & Go
 - Intelligent Speed Limit Warning (ISLW)
 - Tire Pressure
- (i): This mode displays the state of tire pressure.
- User Setting mode
 On this mode, you can change settings of the doors, lamps and so on.
- 5. Master warning mode This mode informs of warning message related to below functions.
- Blind-Spot Collision Warning (BCW) malfunction (if equipped)
- Blind-Spot Collision Warning (BCW) radar blind (if equipped)
- Smart Cruise Control with Stop & Go malfunction (if equipped)
- Smart Cruise Control with Stop & Go radar blind (if equipped)
- Forward Collision-Avoidance Assist malfunction (if equipped)
- Forward Collision-Avoidance Assist radar blind (if equipped)
- High Beam Assist malfunction (if equipped)
- Lamp malfunction
- LED head lamp malfunction (if equipped)

- Engine oil shortage
- * For controlling the LCD modes, refer to "LCD window control" on page 4-62.

Service mode

Service in

It calculates and displays when you need a scheduled maintenance service (mileage or days).

If the remaining mileage or time reaches 1,500 km (900 mi.) or 30 days, "Service in" message is displayed for several seconds each time you set the ignition switch or ENGINE START/STOP button to the ON position.

Service required

If you do not have your vehicle serviced according to the already inputted service interval, "Service required" message is displayed for several seconds each time you set the ignition switch or ENGINE START/STOP button to the ON position.

To reset the service interval to the mileage and days you inputted before:

• Press the OK button (Reset) for more than 1 second.





If any of the following conditions occurs, the mileage and days may be incorrect.

- The battery cable is disconnected.
- The fuse switch is turned off.
- The battery is discharged.

User settings mode

On this mode, you can change setting of the doors, lamps, and so on.

WARNING

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

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

This warning message appears if you try to adjust the User Settings while driving.

Automatic transmission/Dual clutch transmission

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

Manual transmission

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

Quick Menu (if equipped)

In this mode, you can change the settings of the SCC response, Driving assist, DAW, etc.

- SCC response
- Driving assist
- DAW
- Warning timing
- Lane safety
- Forward safety
- Blind-spot safety

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

Driver Assistance (if equipped)

- Smart Cruise Control with Stop & Go Response (if equipped)
 - Choose the sensitivity (fast, normal, slow) of the smart cruise control.
- * For more details, refer to "Smart cruise control with stop & go system (if equipped)" on page 6-96.
- Driving Assist (if equipped)
 Choose the functions. (Leading Vehicle Departure alert, LFA, SLW)
- Driver Attention Warning (DAW) (if equipped)
 - To adjust the sensitivity of the Driver Attention Warning (DAW).
 - Off/Normal/Early

- * For more information, refer to the "Driver Attention Warning (DAW) (if equipped)" on page 6-153.
- Warning Time (if equipped)
 Choose the warning time (Normal, Later)
- Lane Safety (if equipped)
 - Choose the functions. (LKA, LDW, Off)
- Forward Safety (if equipped)
 - Choose the functions. (Active assist, Warning only, Off)
- Blind-spot safety (if equipped)
 - Choose the functions.(Warning sound, Rear cross-traffic safety, Warning only, Off)

Door

- Automatic Lock
 - Disable: The auto door lock operation will be deactivated.
 - Enable on Speed: All doors will be automatically locked when the vehicle speed exceeds 15 km/h (9.3 mph).
 - Enable on Shift: All doors will be automatically locked if the automatic transmission shift lever is shifted from the P (Park) position to the R (Reverse), N (Neutral), or D (Drive) position.
- Automatic Unlock
 - Disable: The auto door unlock operation will be canceled.
 - Vehicle Off/Key out (if equipped): All doors will be automatically unlocked when the ignition key is removed from the ignition

switch or the ENGINE START/ STOP button is set to the OFF position.

- On Shift to P: All doors will be automatically unlocked if the automatic transmission shift lever is shifted to the P (Park) position.
- Power Tailgate (For Wagon, Shooting Brake and CUV) (if equipped)
 - If this item is checked, the power tailgate function will be activated.
- * For more details, refer to "Power tailgate (if equipped)" on page 4-28.
- Smart Tailgate (For Wagon, Shooting Brake and CUV) (if equipped)
 - If this item is checked, the smart tailgate function will be activated. If the power tailgate function is not activated, you cannot activate this function.

For more details, refer to "Smart tailgate (if equipped)" on page 4-32.

Lights

- One Touch Turn Signal
 - Off: The one touch turn signal function will be deactivated.
 - 3, 5, 7 Flashes: The lane change signals will blink 3, 5, or 7 times when the turn signal lever is moved slightly.

- * For more details, refer to "Lighting" on page 4-123.
- Ambient light (if equipped)
 - If this item is checked, ambient light function will be activated.
- Head Lamp Delay
 - If this item is checked, the head lamp delay function will be activated.

Sound

- Volume for PDW (Parking Distance Warning)
 - Adjust the PDW volume. (Level 1 ~ 3)
- Welcome Sound (if equipped)
 - If this item is checked, the welcome sound function will be activated.

Convenience

- Seat Easy Access (if equipped)
 - Off: The seat easy access function will be deactivated.
 - Normal/Extended: When you turn off the engine, the driver's seat will automatically move rear 7.6 cm (Enhanced) for you to enter or exit the vehicle more comfortably.
 - If you change the ENGINE START/STOP button from OFF position to the AC function, the driver's seat will return to the original position.

For more details, refer to "Driver position memory system (if

equipped, for power seat)" on page 3-9.

- Welcome Mirror/Light (if equipped)
 - If this item is checked, the welcome Mirror/light function will be activated.
- Wireless Charging System (if equipped)
 - If this item is checked, the wireless charging system function will be activated.
- Wiper/Light Display (if equipped)
 - If this item is checked, the Wiper/Light Display will be activated.
- Auto rear wiper (if equipped)
 If this item is checked, auto rear wiper function will be activated.
- Gear Position Pop-up (if equipped)
 - If this item is checked, the gear position pop-up display will be activated.
- Icy road warning (if equipped)
 - If this item is checked, the lcy road warning display will be activated.

Service interval

- Service Interval To activate or deactivate the service interval function.
- Adjust Interval To adjust the interval by mileage and period.
- Reset To reset the service interval function.

Other Features

- Fuel Economy Auto Reset
 - If this item is checked, the average fuel economy will reset automatically after refueling or after ignition.
- Fuel Economy Unit
 - Choose the fuel economy unit. (Km/L, L/100Km)
- Temperature Unit
 - Choose the temperature unit. (°C, °F)
- Tire Pressure Unit (if equipped)
 - Choose the tire pressure unit. (psi, kPa, bar)

Language

Choose the language

Reset

You can reset the menus in the User Settings Mode. All menus in the User Settings Mode are initialized, except language and service interval.

Warning messages

Warning messages appear on the LCD to warn the driver. It is located in the center of the instrument cluster.

The warning message may appear differently depending on the type of instrument cluster and some may not show the warning message at all. The warning message is shown in either symbol, symbol and text, or text type only.

Door, hood, tailgate open



OCDW049118

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

Sunroof open (if equipped)



• This warning is displayed if you turn off the engine when the sunroof is open.

Engine has overheated

- This warning message illuminates when the engine coolant temperature is above 120°C (248°F). This mean that the engine is overheated and may be damaged.
- * If your vehicle is overheated, refer to "IF THE ENGINE OVERHEATS" on page 7-8.

Low Key Battery (for smart key system)

 This warning message illuminates if the battery of the smart key is discharged when the ENGINE START/STOP button changes to the OFF position.

Press START button while turning wheel (for smart key system)

- This warning message illuminates if the steering wheel does not unlock normally when the ENGINE START/STOP button is pressed.
- It means that you should press the ENGINE START/STOP button while turning the steering wheel right and left.

Steering wheel unlocked (for smart key system)

 This warning message illuminates if the steering wheel does not lock when the ENGINE START/ STOP button changes to the OFF position.

Check Steering Wheel Lock System (for smart key system)

 This warning message illuminates if the steering wheel does not lock normally when the ENGINE START/STOP button changes to the OFF position.

Press clutch pedal to start engine (for smart key system and manual transmission)

- This warning message illuminates if the ENGINE START/STOP button changes to the ACC position twice by pressing the button repeatedly without depressing the clutch pedal.
- It means that you should depress the clutch pedal to start the engine.

Key not in vehicle (for smart key system)

- This warning message illuminates if the smart key is not in the vehicle when you press the ENGINE START/STOP button.
- It means that you should always have the smart key with you.

Key not detected (for smart key system)

• This warning message illuminates if the smart key is not detected when you press the ENGINE START/STOP button. 4

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Shift to P or N to start engine (for smart key system)

• This warning message illuminates if you try to start the engine with the shift lever not in the P (Park) or N (Neutral) position.

Press brake pedal to start engine (for smart key system)

- This warning message illuminates if the ENGINE START/STOP button changes to the ACC position twice by pressing the button repeatedly without depressing the brake pedal.
- It means that you should depress the brake pedal to start the engine.

Battery discharging due to external electrical devices (if equipped)

The vehicle can detect self-discharge of the battery due to overcurrent that is generated by unauthorized electrical devices such as black box mounting during parking.

Please note that functions such as ISG are limited and battery discharge problems may occur.

If the warning continues even after external electrical devices are removed, have your vehicle inspected by a professional workshop. Kia recommends to contact an authorized Kia dealer/ service partner.

Press START button again (for smart key system)

- This warning message illuminates if you can not operate the ENGINE START/STOP button when there is a problem with the ENGINE START/STOP button system.
- It means that you could start the engine by pressing the Engine Start/Stop Button once more.
- If the warning illuminates each time you press the ENGINE START/STOP button, have the vehicle inspected by a professional workshop. Kia recommends to visit an authorized Kia dealer/ service partner.

Press START button with key (for smart key system)

- This warning message illuminates if you press the ENGINE START/ STOP button while the warning message "Key not detected" is illuminating.
- At this time, the immobilizer indicator light blinks.

Check DAW System (if equipped)

 This warning message is displayed if there is a problem with the Driver Attention Warning. In this case, have the vehicle inspected by a professional workshop. Kia recommends to visit an authorized Kia dealer/service partner.

* For more information, refer to "Driver Attention Warning (DAW) (if equipped)" on page 6-153.

Check BCW System (if equipped)

- This warning message is displayed if there is a problem with the Blind-Spot Collision Warning (BCW) system. In this case, have the vehicle inspected by a professional workshop. Kia recommends to visit an authorized Kia dealer/ service partner.
- * For more information, refer to "Blind-spot Collision Warning (BCW) (if equipped)" on page 6-135.

Icy Road Warning (if equipped)



This warning is to warn the driver the road may be icy.

When the following conditions occur, the warning light (including Outside Temperature Gauge) blinks 5 times and then illuminates, and also warning chime sounds once.

• The temperature on the Outside Temperature Gauge is below approximately 4°C (40°F).

* NOTICE

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

Low engine oil



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

If the warning message is displayed, check the engine oil level as soon as possible and add engine oil as required.

Slowly pour the recommended oil little by little into a funnel. (Oil refill capacity: Approximately 0.6 I ~ 1.0 I) Use only the specified engine oil. (refer to "Recommended lubricants and capacities" on page 9-11.)

Do not overfill the engine oil to ensure the oil level is not above F mark on the dipstick.

* NOTICE

- If you travel approximately 50 km after adding the engine oil, the warning message will go off.
- Cycle the ignition from OFF to ON 3 times within 10 seconds, the warning message will go off immediately.

A CAUTION



If the warning message is displayed continuously after adding the engine oil and traveling approximately 50 km, have the vehicle inspected by a professional workshop as soon as possible. Kia recommends to visit an authorized Kia dealer/ service partner. Even if this warning message does not display after the engine has started, the engine oil should be checked and supplied periodically.

Warning and indicator lights

Warning lights

* NOTICE

Warning lights

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

Air bag Warning Light 🛒

This warning light illuminates:

- Once you set the ignition switch or ENGINE START/STOP button to the ON position.
 - It illuminates for approximately 6 seconds and then goes off.
- When there is a malfunction with the SRS.

In this case, have the vehicle inspected by a professional workshop. Kia recommends to visit an authorized Kia dealer/ service partner.

Seat Belt Warning Light 봈

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

* For more details, refer to the "Seat belts" on page 3-21.

Parking Brake & Brake Fluid Warning Light ([])

This warning light illuminates:

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

If the brake fluid level in the reservoir is low:

- 1. Drive carefully to the nearest safe location and stop your vehicle.
- 2. With the engine stopped, check the brake fluid level immediately and add fluid as required (For more details, refer to "Brake/ Clutch fluid (if equipped)" on page 8-46). Then check all brake components for fluid leaks. If any leak on the brake system is still found, the warning light remains on, or the brakes do not operate properly, do not drive the vehicle. In this case, have the vehicle towed to a professional workshop and inspected. Kia recommends

to visit an authorized Kia dealer/ service partner.

Dual-diagonal braking system

Your vehicle is equipped with dualdiagonal braking systems. This means you still have braking on two wheels even if one of the dual systems should fail. With only one of the dual systems working, more than normal pedal travel and greater pedal pressure are required to stop the vehicle. Also, the vehicle will not stop in as short a distance with only a portion of the brake system working. If the brakes fail while you are driving, shift to a lower gear for additional engine braking and stop the vehicle as soon as it is safe to do S0.

▲ WARNING

Parking Brake & Brake Fluid Warning Light

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

In this case, have the vehicle inspected by a professional workshop. Kia recommends to visit an authorized Kia dealer/service partner.

Anti-lock Brake System (ABS) Warning Light

This warning light illuminates:

- Once you set the ignition switch or ENGINE START/STOP button to the ON position.
 - It illuminates for approximately 3 seconds and then goes off.
- When there is a malfunction with the ABS (The normal braking system will still be operational without the assistance of the anti-lock brake system).
 In this case, have the vehicle inspected by a professional workshop. Kia recommends to visit an authorized Kia dealer/ service partner.

Electronic Brake force Distribution (EBD) System Warning Light ((B) (1))

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

 When the ABS and regular brake system may not work normally. In this case, have the vehicle inspected by a professional workshop. Kia recommends to visit an authorized Kia dealer/ service partner.

When both ABS and Parking Brake & Brake Fluid Warning Lights are on, the brake system will not work normally and you may experience an unexpected and dangerous situation during sudden braking. In this case, avoid high speed driving and abrupt braking. Have the vehicle inspected by a professional workshop as soon as possible. Kia recommends to visit an authorized Kia dealer/service partner.

* NOTICE

Electronic Brake force Distribution (EBD) System Warning Light

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

In this case, have the vehicle inspected by a professional workshop as soon as possible. Kia recommends to visit an authorized Kia dealer/service partner.

A WARNING

Electronic Brake force Distribution (EBD) System Warning Light

Electronic Power Steering (EPS) Warning Light

This warning light illuminates:

- Once you set the ignition switch or ENGINE START/STOP button to the ON position.
 - This indicator light comes on after the ignition key is turned to the ON position and then goes out after approximately 3 seconds.
- When there is a malfunction with the EPS.

In this case, have the vehicle inspected by a professional workshop. Kia recommends to visit an authorized Kia dealer/ service partner.

Malfunction Indicator Lamp (MIL)

This warning light illuminates:

- Once you set the ignition switch or ENGINE START/STOP button to the ON position.
 - It remains on until the engine is started.
- When there is a malfunction with the emission control system. In this case, have the vehicle inspected by a professional workshop. Kia recommends to visit an authorized Kia dealer/ service partner.

Malfunction Indicator Lamp (MIL)

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

Gasoline Engine

If the Malfunction Indicator Lamp (MIL) illuminates, potential catalytic converter damage is possible which could result in loss of engine power. In this case, have the vehicle inspected by a professional workshop as soon as possible. Kia recommends to visit an authorized Kia dealer/service partner.

A CAUTION

Diesel Engine

If the Malfunction Indicator Lamp (MIL) blinks, some error related to the injection quantity adjustment occurs which could result in loss of engine power, combustion noise and poor emission.

In this case, have the engine control system inspected by a professional workshop. Kia recommends to visit an authorized Kia dealer/service partner.

A CAUTION



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Charging System Warning Light

This warning light illuminates:

- Once you set the ignition switch or ENGINE START/STOP button to the ON position.
 - It remains on until the engine is started.
- When there is a malfunction with either the alternator or electrical charging system.

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

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

In this case, have the vehicle inspected by a professional workshop as soon as possible. Kia recommends to visit an authorized Kia dealer/service partner.

Engine Oil Pressure Warning Light

This warning light illuminates:

- Once you set the ignition switch or ENGINE START/STOP button to the ON position.
 - It remains on until the engine is started.
- When the engine oil pressure is low.

If the engine oil pressure is low:

- 1. Drive carefully to the nearest safe location and stop your vehicle.
- 2. Turn the engine off and check the engine oil level (For more details, refer to "Engine oil (gasoline)" on page 8-37, "Engine oil (diesel)" on page 8-40). If the level is low, add oil as required.

If the warning light remains on after adding oil or if oil is not available, have the vehicle inspected by a professional workshop as soon as possible. Kia recommends to visit an authorized Kia dealer/service partner.

A CAUTION

Engine Oil Pressure Warning Light

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

engine off immediately. In this case, have the vehicle inspected by a professional workshop. Kia recommends to visit an authorized Kia dealer/service partner.

Low Fuel Level Warning Light



This warning light illuminates:

When the fuel tank is nearly empty.

If the fuel tank is nearly empty:

Add fuel as soon as possible.

CAUTION

Low Fuel Level

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

Low Tire Pressure Warning Light (!)

This warning light illuminates:

- Once you set the ignition switch or ENGINE START/STOP button to the ON position.
 - It illuminates for approximately 3 seconds and then goes off.
- When one or more of your tires are significantly underinflated (The location of the underinflated

tires are displayed on the LCD display).

* For more details, refer to "Tire Pressure Monitoring System (TPMS) (Type A) (if equipped)" on page 7-10, "Tire Pressure Monitoring System (TPMS) (Type B) (if equipped)" on page 7-16.

This warning light remains on after blinking for approximately 60 seconds or repeats blinking and off at the intervals of approximately 3 seconds:

- When there is a malfunction with the TPMS. In this case, have the vehicle inspected by a professional workshop as soon as possible. Kia recommends to visit an authorized Kia dealer/service partner.
- * For more details, refer to "Tire Pressure Monitoring System (TPMS)" in chapter 7.

WARNING

Safe Stopping

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

Fuel Filter Warning Light (Diesel Engine)

This warning light illuminates:

- Once you set the ignition switch or ENGINE START/STOP button to the ON position.
 - It illuminates for approximately 3 seconds and then goes off.
- When water has accumulated inside the fuel filter. In this case, remove the water from the fuel filter.
- * For more details, refer to "Fuel Filter (for diesel)" on page 8-49.

A CAUTION

Fuel Filter Warning Light

- When the Fuel Filter Warning Light illuminates, engine power (vehicle speed & idle speed) may decrease.
- If you keep driving with the warning light on, engine parts (injector, common rail, high pressure fuel pump) may be damaged. If this occurs, have the vehicle inspected by a professional workshop as soon as possible. Kia recommends to visit an authorized Kia dealer/service partner.

Forward Collision-Avoidance Assist (FCA) Warning ligh 夫 (if equipped)

This indicator light illuminates:

 When there is a malfunction with the Forward Collision-Avoidance Assist (FCA) system.
 In this case, have the vehicle inspected by a professional workshop. Kia recommends to visit an authorized Kia dealer/service partner.

Master Warning Light 🛕

This indicator light illuminates:

- This warning light informs the driver the following situations
 - Blind-Spot Collision Warning (BCW) malfunction (if equipped)
 - Blind-Spot Collision Warning (BCW) radar blind (if equipped)
 - Smart Cruise Control with Stop & Go malfunction (if equipped)
 - Smart Cruise Control with Stop & Go radar blind (if equipped)
 - Forward Collision-Avoidance Assist malfunction (if equipped)
 - Forward Collision-Avoidance Assist radar blind (if equipped)
 - High Beam Assist malfunction (if equipped)
 - Lamp malfunction
 - LED head lamp malfunction (if equipped)
 - Engine oil shortage

If the warning situation is solved, the master warning light will turn off.

Exhaust system (DPF) warning light (Diesel Engine) = :::-ुः

This warning light illuminates:

- When there is a malfunction with Diesel Particulate Filter (DPF) system.
- When this warning light illuminates, it may turn off after driving the vehicle:
 - at more than 60km/h (37 mph), or
 - at more than 2nd gear with 1500 ~ 2000 engine rpm for a certain time (for about 25 minutes).

If this warning light blinks in spite of the procedure (at this time the LCD warning message will be displayed), have the DPF system checked by a professional workshop. Kia recommends to visit an authorized Kia dealer/service partner.

A CAUTION

Diesel Engine with DPF (if equipped)

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

SCR warning light (Diesel Engine)

This warning light illuminates:

• When the urea solution tank is nearly empty.

If the urea solution tank is nearly empty:

- Refill urea solution as soon as possible.
- * For more details, refer to "Selective Catalytic Reduction (if equipped)" on page 8-137.

This warning light illuminates:

- When there is a malfunction with Gasoline Particulate Filter (GPF) system.
- When this warning light illuminates, it may turn off after driving the vehicle:
 - The vehicle should be driven for more than 30 minutes at a speed of 80 km/h (50 mph) and faster.
 - Ensure 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 in spite of the procedure (at this time the LCD warning message will be displayed), have the GPF system checked by a professional workshop. Kia

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recommends to visit an authorized Kia dealer/service partner.

A CAUTION

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.

LED Headlamp Warning Light - 🕂 -(if equipped)

This warning light illuminates:

- Once you set the ENGINE START/ STOP button to the ON position.
 - It illuminates for approximately 3 seconds and then goes off.
- When there is a malfunction with the LED headlamp.

In this case, have the vehicle inspected by a professional workshop. Kia recommends to visit an authorised Kia dealer/service partner.

This warning light blinks:

• When there is a malfunction with a LED headlamp related part. In this case, have the vehicle inspected by a professional workshop. Kia recommends to visit an authorised Kia dealer/service partner.

Electronic Parking Brake (EPB) Warning Light _{EPB} (if equipped)

- This warning light illuminates:
- Once you set the ENGINE START/ STOP button to the ON position.
 - It illuminates for approximately
 3 seconds and then goes off.
 - When there is a malfunction with the EPB.

In this case, have the vehicle inspected by a professional workshop. Kia recommends to visit an authorised Kia dealer/ service partner.

* NOTICE

Electronic Parking Brake (EPB) Warning Light

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

Indicator lights

Electronic Stability Control (ESC) Indicator Light

This indicator light illuminates:

 Once you set the ignition switch or ENGINE START/STOP button to the ON position.

- It illuminates for approximately 3 seconds and then goes off.
- When there is a malfunction with the ESC system.

In this case, have the vehicle inspected by a professional workshop. Kia recommends to visit an authorized Kia dealer/ service partner.

This indicator light blinks:

While the ESC is operating.

* For more details, refer to "Electronic Stability Control (ESC)" on page 6-55.

Electronic Stability Control (ESC) OFF Indicator Light

This indicator light illuminates:

- Once you set the ignition switch or ENGINE START/STOP button to the ON position.
 - It illuminates for approximately3 seconds and then goes off.
- When you deactivate the ESC system by pressing the ESC OFF button.
- * For more details, refer to "Electronic Stability Control (ESC)" on page 6-55.

Auto stop indicator (A) (if equipped)

This indicator will illuminate when the engine enters the Idle Stop mode of the ISG (Idle Stop and Go) system. When the automatic starting occurs, the auto stop indicator on the cluster will blink for 5 seconds.

* For more details, refer to "ISG (Idle Stop and Go) system (if equipped)" on page 6-114.

* NOTICE

When the engine automatically starts by the ISG system, some warning lights (ABS, ESC, ESC OFF, EPS or Parking brake warning light) may turn on for a few seconds. This happens because of the low battery voltage. It does not mean the system is malfunctioning.

AUTO HOLD Indicator Light (AUTO HOLD) (if equipped)

This indicator light illuminates:

- White When you activate the auto hold system by pressing the AUTO HOLD button.
- **Green** When you stop the vehicle completely by depressing the brake pedal with the auto hold system activated.
- Yellow When there is a malfunction with the auto hold system. In this case, have the vehicle inspected by a professional workshop. Kia recommends to visit an authorised Kia dealer/ service partner.
- * For more details, refer to "AUTO HOLD (if equipped)" on page 6-50.

Immobilizer Indicator Light (Without Smart Key) 🖚

This indicator light illuminates:

- When the vehicle detects the immobilizer in your key properly while the ignition switch is ON.
 - At this time, you can start the engine.
 - The indicator light goes off after starting the engine.

This indicator light blinks:

 When there is a malfunction with the immobilizer system. In this case, have the vehicle inspected by a professional work shop. Kia recommends to visit an authorized Kia dealer/service partner.

Immobilizer Indicator Light (With Smart Key) 🖚

This indicator light illuminates for up to 30 seconds:

- When the vehicle detects the smart key in the vehicle properly while the ENGINE START/STOP button is ACC or ON.
 - At this time, you can start the engine.
 - The indicator light goes off after starting the engine.

This indicator light blinks for a few seconds:

• When the smart key is not in the vehicle.

- At this time, you can not start the engine.

This indicator light illuminates for 2 seconds and goes off:

 When the vehicle can not detect the smart key which is in the vehicle while the ENGINE START/ STOP button is ON.
 In this case, have the vehicle inspected by a professional workshop. Kia recommends to visit an authorized Kia dealer/ service partner.

This indicator light blinks:

- When the battery of the smart key is weak.
 - At this time, you can not start the engine.However, you can start the engine if you press the ENGINE START/STOP button with the smart key. (For more details, refer to "Starting the engine" on page 6-11, "Starting the engine" on page 6-16).
- When there is a malfunction with the immobilizer system. In this case, have the vehicle inspected by a professional workshop. Kia recommends to visit an authorized Kia dealer/service partner.

Turn Signal Indicator Light 🖛 🗭

This indicator light blinks:

• When you turn the turn signal light on.

If any of the following occurs, there may a malfunction with the turn signal system. In this case, have the vehicle inspected by a professional workshop. Kia recommends to visit an authorized Kia dealer/service partner.

- The indicator light does not blink but illuminates.
- The indicator light blinks more rapidly.
- The indicator light does not illuminate at all.

Low Beam Indicator Light∬○ (if equipped)

This indicator light illuminates

• When the headlights are on.

High Beam Indicator Light

This indicator light illuminates:

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

High beam assist indicator EO (if equipped)

This warning light illuminates :

- When the high beam is on with the light switch in the AUTO light position.
- If your vehicle detects oncoming or preceding vehicles, the high

beam assist system will switch the high beam to low beam automatically.

* For more details, refer to "High Beam Assist (if equipped)" on page 4-126.

Light ON Indicator Light DOG

This indicator light illuminates:

• When the tail lights or headlights are on.

Front Fog Indicator Light 丰() (if equipped)

This indicator light illuminates:

• When the front fog lights are on.

Rear Fog Indicator Light ()‡ (if equipped)

This indicator light illuminates:

• When the rear fog lights are on.

Glow Indicator Light (Diesel Engine)

This indicator light illuminates:

- When the engine is being preheated with the ignition switch or ENGINE START/STOP button in the ON position.
 - The engine can be started after the glow indicator light goes off.
 - The illumination time varies with the engine coolant temperature,

air temperature, and battery condition.

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

In this case, have the vehicle inspected by a professional workshop. Kia recommends to visit an authorized Kia dealer/service partner.

* NOTICE

Engine Preheating

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

LKA (Lane Keeping Assist) indicator / 🛋 (if equipped)

The LKA indicator will illuminate when you turn the lane keeping assistant system on by pressing the LKA button.

If there is a problem with the system, the yellow LKA indicator will illuminate.

* For more details, refer to "Lane Keeping Assist (LKA) system (if equipped)" on page 6-126.

Parking distance warningreverse (if equipped)

Type A



Type B



The parking distance warningreverse assists the driver during backward movement of the vehicle by chiming if any object is sensed within a distance of 125 cm (49 in.) behind the vehicle.

This system is a supplemental system and it is not intended to nor does it replace the need for extreme care and attention of the driver. The sensing range and objects detect-able by the back sensors (1) are limited. Whenever backing-up, pay as much attention to what is behind you as you would in a vehicle without a parking distance warningreverse.

A WARNING



The parking distance warningreverse is a supplementary function only. The operation of the parking distance warning-reverse can be affected by several factors (including environmental conditions). It is the responsibility of the driver to always check the area behind the vehicle before and while backing up.

Operation of the parking distance warning-reverse

Operating condition

• This system will activate when backing up with the ignition switch ON.

If the vehicle is moving at a speed over 5 km/h (3 mph), the system may not be activated correctly.

- The sensing distance while the parking distance warning-reverse is in operation is approximately 125 cm (49 in.).
- When more than two objects are sensed at the same time, the closest one will be recognized first.

Types of warning sound	Indicator*
When an object is 125 cm to 71 cm (49 in. to 28 in.) from the rear bumper: Buzzer beeps intermittently.	
When an object is 70 cm to 36 cm (28 in. to 14 in.) from the rear bumper: Buzzer beeps more frequently.	
When an object is within 35 cm (14 in.) of the rear bumper: Buzzer sounds continuously.	Ĵ

* if equipped

* NOTICE

The indicator may differ from the illustration as objects or sensors status.

If the indicator blinks, have the system checked by a professional workshop. Kia recommends to visit an authorized Kia dealer/service partner.

Non-operational conditions of parking distance warning-reverse

The parking distance warningreverse may not operate properly when:

- Moisture is frozen to the sensor. (It will operate normally when the moisture has been cleared.)
- The sensor is covered with foreign matter, such as snow or water, or the sensor cover is blocked. (It

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will operate normally when the material is removed or the sensor is no longer blocked.)

- 3. Driving on uneven road surfaces (unpaved roads, gravel, bumps, gradient).
- 4. Objects generating excessive noise (vehicle horns, loud motorcycle engines, or truck air brakes) are within range of the sensor.
- 5. Heavy rain or water spray exists.
- 6. Wireless transmitters or mobile phones are within range of the sensor.
- 7. The sensor is covered with snow.
- 8. Trailer towing

The detecting range may decrease when:

- The sensor is stained with foreign matter such as snow or water. (The sensing range will return to normal when removed.)
- 2. Outside air temperature is extremely hot or cold.

The following objects may not be recognized by the sensor:

- 1. Sharp or slim objects such as ropes, chains or small poles.
- 2. Objects which tend to absorb the sensor frequency such as clothes, spongy material or snow.
- 3. Undetectable objects smaller than 1 m (40 in.) in height and narrower than 14 cm (6 in.) in diameter.

Parking distance warning-reverse precautions

- The parking distance warningreverse may not sound consistently depending on the speed and shapes of the objects detected.
- The parking distance warningreverse may malfunction if the vehicle bumper height or sensor installation has been modified or damaged. Any non-factory installed equipment or accessories may also interfere with the sensor performance.
- The sensor may not recognize objects less than 30 cm (12 in.) from the sensor, or it may sense an incorrect distance. Use caution.
- When the sensor is frozen or stained with snow, dirt, or water, the sensor may be inoperative until the stains are removed using a soft cloth.
- Do not push, scratch or strike the sensor. Sensor damage could occur.

* NOTICE

This system can only sense objects within the range and location of the sensors, It can not detect objects in other areas where sensors are not installed. Also, small or slim objects, such as poles or objects located between sensors may not be detected by the sensors. Always visually check behind the vehicle when backing up. Be sure to inform any drivers of the vehicle that may be unfamiliar with the system regarding the systems capabilities and limitations.

A WARNING

Pay close attention when the vehicle is driven close to objects on the road, particularly pedestrians, and especially children. Be aware that some objects may not be detected by the sensors, due to the object's distance, size or material, all of which can limit the effectiveness of the sensor. Always perform a visual inspection to make sure the vehicle is clear of all obstructions before moving the vehicle in any direction.

Self-diagnosis

If you don't hear an audible warning sound or if the buzzer sounds intermittently when shifting the gear to the R (Reverse) position, this may indicate a malfunction in the parking distance warningreverse. If this occurs, have the system checked by a professional workshop. Kia recommends to visit an authorized Kia dealer/service partner.

A WARNING



Your new vehicle warranty does not cover any accidents or damage to the vehicle or injuries to its occupants due to a parking distance warning-reverse malfunction. Always drive safely and cautiously.

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Parking distance warning (if equipped)

Front



Rear (Type A)



Rear (Type B)



The parking distance warning assists the driver during movement of the vehicle by chiming if any object is sensed within the distance of 105 cm (41 in.) in front and 125 cm (49 in.) behind the vehicle.

This system is a supplemental system and it is not intended to nor does it replace the need for extreme care and attention of the driver.

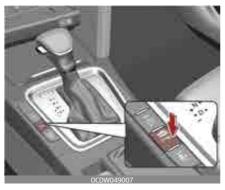
The sensing range and objects detectable by the sensors are limited. Whenever moving pay as much attention to what is in front and behind of you as you would in a vehicle without a parking distance warning.

A WARNING

The parking distance warning should only be considered as a supplementary function. The driver must check the front and rear view. The operational function of the parking distance warning can be affected by many factors and conditions of the surroundings, so the responsibility rests always with the driver.

Operation of the parking distance warning

Operating condition



- This system activates when the parking distance warning button is pressed with the ignition switch ON.
- The indicator of the parking distance warning button turns on automatically and activates the parking distance warning when you shift the gear to the R (Reverse) position. It will turn off automatically when you drive above 30 km/h (19 mph).
- The sensing distance while backing up is approximately 120 cm (47 in.) when you are driving less than 10 km/h (6.2 mph).
- The sensing distance while moving forward is approximately 105 cm (39 in.) when you are driving less than 10 km/h (6.2 mph).
- When more than two objects are sensed at the same time, the closest one will be recognized first.

- The side sensors are activated when you shift the gear to the R (Reverse) position.
- If the vehicle speed is above 20km/h, the system automatically turns off. To activate again, push the button.

* NOTICE

It may not operate if it's distance from the object is already less than approximately 25 cm when the system is ON.

Type of warning indicator and sound

Black : with Warning sound

Red : without Warning sound

Distance from object		Warning indicator When driving forward When driving rearward		Warning sound	
		when a wing for ward	when a where a ward		
105 cm ~ 69 cm	Front			Buzzer beeps intermittently	
120 cm ~ 69 cm	Rear	-		Buzzer beeps intermittently	
68 cm ~ 42 cm	Front		Ĭ	Buzzer beeps frequently	
	Rear	-		Buzzer beeps frequently	
41 cm	Front	Î	Ĩ	Buzzer sounds continuously	
	Rear	-	ų	Buzzer sounds continuously	

* NOTICE



- The actual warning sound and indicator may differ from the illustration according to objects or sensor status.
- Do not wash the vehicle's sensor with high pressure water.

* NOTICE



 This system can only sense objects within the range and location of the sensors; It can not detect objects in other areas where sensors are not installed. Also, small or slim objects, such as poles or objects located between sensors may not be detected by the sensors. Always visually check behind the vehicle when backing up. • Be sure to inform any drivers of the vehicle that may be unfamiliar with the system regarding the systems capabilities and limitations.

Non-operational conditions of parking distance warning

Parking distance warning may not operate normally when:

- Moisture is frozen to the sensor. (It will operate normally when moisture melts.)
- 2. Sensor is covered with foreign matter, such as snow or water, or the sensor cover is blocked. (It will operate normally when the material is removed or the sensor is no longer blocked.)
- Sensor is stained with foreign matter such as snow or water. (Sensing range will return to normal when removed.)
- 4. The parking assist button is off.

There is a possibility of parking distance warning malfunction when:

- 1. Driving on uneven road surfaces such as unpaved roads, gravel, bumps, or gradient.
- 2. Objects generating excessive noise such as vehicle horns, loud motorcycle engines, or truck air brakes can interfere with the sensor.

- 3. Heavy rain or water spray.
 - 4. Wireless transmitters or cellular phones present near the sensor.
 - 5. Sensor is covered with snow.

Detecting range may decrease when:

- 1. Outside air temperature is extremely hot or cold.
- Undetectable objects smaller than 1 m and narrower than 14 cm in diameter.

The following objects may not be recognized by the sensor:

- 1. Sharp or slim objects such as ropes, chains or small poles.
- 2. Objects, which tend to absorb sensor frequency such as clothes, spongy material or snow.

* NOTICE

- 1. The warning may not sound sequentially depending on the speed and shapes of the objects detected.
- 2. The parking distance warning may malfunction if the vehicle bumper height or sensor installation has been modified. Any non-factory installed equipment or accessories may also interfere with the sensor performance.
- 3. Sensor may not recognize objects less than 30 cm from the sensor, or it may sense an incorrect distance. Use with caution.

- 4. When the sensor is frozen or stained with snow or water, the sensor may be inoperative until the stains are removed using a soft cloth.
- 5. Do not push, scratch or strike the sensor with any hard objects that could damage the surface of the sensor. Sensor damage could occur.

* NOTICE

This system can only sense objects within the range and location of the sensors, it can not detect objects in other areas where sensors are not installed. Also, small or slim objects, or objects located between sensors may not be detected.

Always visually check in front and behind the vehicle when driving. Be sure to inform any drivers in the vehicle that may be unfamiliar with the system regarding the systems capabilities and limitations.

A WARNING

Pay close attention when the vehicle is driven close to objects on the road, particularly pedestrians, and especially children. Be aware that some objects may not be detected by the sensors, due to the objects distance, size or material, all of which can limit the effectiveness of the sensor. Always perform a visual inspection to make sure the vehicle is clear of all obstructions before moving the vehicle in any direction.

Self-diagnosis

When you shift the gear to the R (Reverse) position and if one or more of the below occurs you may have a malfunction in the rear parking distance warning.

- You don't hear an audible warning sound or if the buzzer sounds intermittently.
 - (blinks) is displayed. (if equipped)

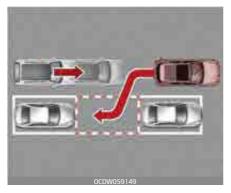
If this occurs, have the system checked by a professional workshop. Kia recommends to visit an authorized Kia dealer/service partner.

A WARNING

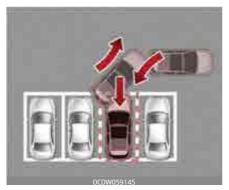
Your new vehicle warranty does not cover any accidents or damage to the vehicle or injuries to its occupants related to a parking distance warning. Always drive safely and cautiously.

Parking assist (if equipped)

Parallel parking



Reverse parking



Parallel exit



The Parking Assist helps drivers park their vehicle by using sensors to measure parking spaces, control the steering wheel to semiautomatically park the vehicle and provide instruction on the LCD display to help through parking.

Additionally, the system provides assistance when leaving (parallel exit) a parking space.

* The volume for the Parking Assist can be adjusted. Refer to "User settings mode" on page 4-75.

* NOTICE

- The vehicle will not stop for pedestrians or objects that may be in its path, so the driver must monitor the maneuver.
- Use the system only in parking lots and places used for parking.
- The system does not work if there is no car parked in front of the parking space you are planning to park or if it is a diagonal parking space.
- After parking your vehicle using the system, the vehicle may not be parked at the exact spot you have wished. For example, the space between your vehicle and wall may not be the distance you have desired.
- Deactivate the system and park your vehicle manually, when the situation requires parking manually.

- The Parking Assist System's front and rear warning sound activates when the Parking Assist is activated.
- After searching for a parking space is completed, the Parking Assist will be canceled if the Parking Assist System is canceled by pressing the button to the OFF position.

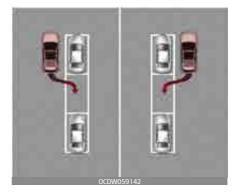
WARNING

- The Parking Assist should only be considered as a supplementary function. The driver must check the front and rear view for objects. The operational function of the Parking Assist can be affected by many factors and conditions of the surroundings, so the responsibility rests always with the driver.
- The system may not operate normally if the vehicle needs wheel alignment adjustment. In this case, have the vehicle checked by a professional workshop. Kia recommends to visit an authorized Kia dealer/service partner.
- Kia recommends to always use the same size tire and wheel recommended by an authorized Kia dealer/service partner. If you use a different tire or wheel size the system may not work properly. If you use a different tire or wheel size rather than the size

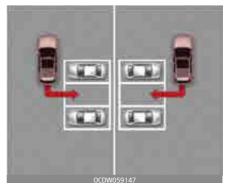
recommended by an authorized Kia dealer/service partner, the system may not work properly. Always use the same size tire and wheel.

Operating condition

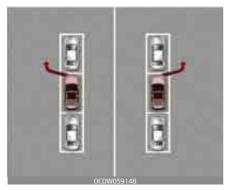
Right side - Parallel parking / Left side -Parallel parking



Right side - Reverse parking / Left side - Reverse parking



Left side - Parallel exit / Right side -Parallel exit



The system will help park the vehicle in the middle or back of a parked vehicle. Use the system when all the below conditions are met.

- When the parking space is a straight line.
- When parallel parking or reverse (perpendicular) parking is required.
- When there is a parked vehicle.
- When there is enough space to move the vehicle.

Non-operating condition

Never use the Parking Assist in the limitation of the system.

- Curved parking space
- Inclined roads
- A vehicle loaded with longer or wider cargo compared to the vehicle
- Diagonal parking space
- Heavy snow or rain or wind
- Near a circular pillar or narrow pillar, or a pillar surrounded by

objects such as fire extinguisher, etc.

- The sensor is positioned incorrectly by an impact to the bumper
- Bumpy roads
- A vehicle equipped with a snow chain or spare tire
- Tire pressure lower or higher than the standard tire pressure
- A trailer connected to the vehicle
- Slippery or uneven road
- Big vehicles such as buses or trucks parked
- EPS (Electronic Power Steering) indicator light remains on the instrument cluster
- Front or rear distance sensors are malfunction or not working properly. (Refer to "Parking assist (if equipped)" on page 4–103.)
- A motorcycle or bicycle parked
- A obstacle such as a trash can, bicycle, shopping cart, etc. is near
- Wheel changed to an unauthorized size
- A problem with the wheel alignment
- Vehicle leaned severely to one side

A WARNING

Do not use the Parking Assist in the following conditions for unexpected results may occur and cause a serious accident.

1. Parking on inclines



The driver must apply the accelerator and brake pedal when parking on inclines. If the driver is unfamiliar with applying the accelerator and brake pedal, a vehicle accident may occur.

2. Parking in snow



Snow may interfere with sensor operation or the system may cancel if the road is slippery while parking. Also, if the driver is unfamiliar with applying the accelerator and brake pedal, a car accident may occur. 3. Parking in narrow space



The system may not search for parking spaces if the space is too narrow. Even if the system is operating, always be careful.

4. Parking diagonal



The system is a supplemental for parallel parking or perpendicular parking. Diagonal line parking is not available. Even if the vehicle is able to enter the space, do not operate the Parking Assist. The system will attempt parallel parking or reverse (perpendicular) parking.

5. Parking in uneven road



Parking in uneven roads, the driver needs to properly apply the pedal (clutch, accelerator or brake). If not, the system may cancel when the vehicle slips or an accident may occur.

6. Parking behind a truck



An accident may occur when parking behind a vehicle higher than yours. For example, bus, truck, etc.

Do not solely rely on the Parking Assist.

7. Obstacle in parking space



Obstacle such as a pillar may interfere with the system when looking for a parking space. Even though, a parking space is available the system may not detect a parking space.

8. Leaving a parking space near a wall



When leaving a parking space that is narrow and near a wall, the system may not work properly. When leaving a parking space similar to the above picture, the driver must watch out for obstacles while leaving.

How the system works (Parking mode)

- 1. Activate the Parking Assist The shift lever should be placed in D (Drive).
- 2. Select parking mode
 - If the parking mode is selected with the shift lever in N (Neutral) after starting the engine, the exit mode will be selected automatically and after driving, the parking mode will be selected.
- 3. (Optional) Search for parking space (slowly move forward.)
- 4. (Optional) Search complete (automatic search by sensor.)
- 5. Steering wheel control
 - 1) Shift according to the instruction on the LCD display.
 - 2) Drive slowly with the brake pedal applied.
- 6. Parking complete
- 7. If necessary, manually adjust position of vehicle.

If the system already recognized parking space before activating the Parking Assist, you can proceed from 4th stage (Search complete)

* NOTICE

• Before activating the system check if the conditions are possible to use the system. • For your safety, always apply the brake pedal except for when driving.

1. Activate Parking Assist



- Press the Parking Assist button (the button indicator will illuminate).
- The Parking Assist System will be activated (the button indicator will illuminate).

A warning sound will be heard if an obstacle is detected.

- Press the Parking Assist button again for more than 1.5 seconds to turn off the system.
- The Parking Assist defaults to the OFF position whenever the ignition switch is turned on.

2. Select Parking Mode

• Select parallel mode or reverse mode by pressing the Parking Assist button with the shift lever in D (Drive).

- If the system already recognized parking space before activating the Parking Assist, you can see "Parking search" or "Space found".
- The right side parallel mode is selected automatically when the Parking Assist is activated.
- The mode changes from parallel mode (right → left) to reverse mode (right → left) whenever the Parking Assist button is pressed. (for LHD)
- The mode changes from parallel mode (left → right) to reverse mode (left → right) whenever the Parking Assist button is pressed. (for RHD)
- If the button is pressed again, the system will turn off.

3. Search for parking space (optional)

Right side - Parallel parking





Left side - Parallel parking

.

Right side - Reverse parking



Left side - Reverse parking



• Slowly drive forward maintaining the distance of approximately

Δ

50cm ~ 150cm (19.6in.~59.0in.) with the parked vehicles. The side sensors will search for a parking space.

- If the vehicle speed is over 20 km/h (12 mph), a message will appear to notify you to reduce speed.
- If vehicle speed is over 30 km/h (18 mph), the system will be canceled.

* NOTICE

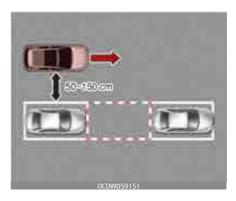


- Turn on the hazard warning flasher if it is crowded with other vehicles.
- If the parking lot is small, slowly drive more nearer to the parking space.
- The search for a parking space will be completed only when there is enough space for the vehicle to move to park.

* NOTICE

- When searching for a parking space, the system may not be able to find a parking space if there is no vehicle parked, a parking space is available after driving by or a parking space is available before driving by.
- The system may not operate normally in the following conditions:
 - 1. When the sensors are frozen
 - 2. When the sensors are dirty

- 3. When it snows or rains heavily
- 4. When a pillar or object is near



* NOTICE

Slowly drive forward maintaining the distance of approximately 50cm ~ 150cm (19.6in.~59.0in.) with the parked vehicles. If it is not within the distance, the system may not be able to search for a parking space.

A CAUTION

After searching for a parking space is completed, continue using the system after checking the surrounding area.

Especially, check the distance of the outside rear view mirror and objects while using the system to prevent careless accidents.

4. Recognizing parking space (optional)

Right side - Parallel parking



Left side - Parallel parking



Right side - Reverse parking





When a parking space is found, a blank box will appear like the above picture. Drive forward slowly, then the "Shift to R" message will appear.

5. Search complete

Right side - Parallel parking



Left side - Parallel parking



Right side - Reverse parking

Space found R OCD058052

Left side - Reverse parking



While driving forward to search for a parking space, the above message

will appear with a beep sound if the search is complete. Stop the vehicle and shift to the R (Reverse) position.

- Always drive slowly with the brake pedal applied.
- If the parking space is to small the system may be canceled at the Steering wheel control stage. Do not park your vehicle if the space is too small.

6. Steering wheel control



OCD058063

- The above message will appear if the shift lever is in R (Reverse). The steering wheel will be controlled automatically.
- The system will be canceled if you firmly hold the steering wheel while it is controlled automatically.
- The system will be canceled if vehicle speed is over 7 km/h (4.3 mph).

A WARNING

Do not put your hands between the steering wheel while it is being automatically controlled.

A CAUTION

- Always drive slowly with the brake pedal applied.
- Always check for objects around your vehicle before driving.
- If the vehicle does not move even though the brake pedal is not depressed, check the surrounding before depressing the accelerator pedal. Be sure not to speed over 7km/h(4.3mph).
- Do not install any cover on the steering wheel. This may cause the system to cancel.

* NOTICE

- If you do not follow the instructions provided, you may fail to park your vehicle.
 However, if the Parking Assist System warning sound (distance from object is within 30cm: continuous beep) occurs, slowly drive the vehicle to the reverse direction of the detected object after checking the surrounding.
- Always check the surrounding before driving your vehicle if the Parking Assist System warning sound (distance from object is

within 30cm: continuous beep) is heard for the object is close to your vehicle. If the vehicle gets too close to the object, the warning will not sound.

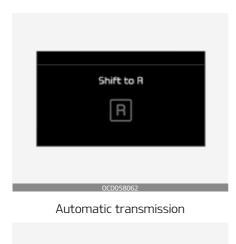
• Be cautious not to accelerate too fast to avoid any crash with other vehicles around.

To cancel the system while parking

- Press the Parking Assist button and hold until the system is canceled.
- Press long the Parking Assist button while the system is searching for a parking space.
- Press the Parking Assist button while the steering wheel is controlled by the system.

Manual transmission

Shift to 1st gear	
1	
OCD058054	



and drive the vehicle with the brake pedal depressed.

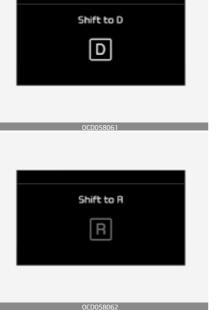
▲ CAUTION

Always check the surrounding before releasing the brake pedal.

WARNING

Always be careful while parking for other vehicles or pedestrians.

7. Parking Assist completed



Gear shift while steering wheel control

When the above message appears with a beep sound, shift the gear



Complete parking your vehicle according to the instructions on the LCD display. If required, manually control the steering wheel and complete parking your vehicle.

* NOTICE

The brake pedal must be depressed by the driver while parking your vehicle.

Additional instructions (Messages)



The brake pedal must be depressed by the driver while parking your vehicle. When the Parking Assist is operating, a message may appear regardless of the parking order. The messages will appear according to the circumstances. Follow the instructions provided while parking your vehicle with the Parking Assist.

*	NOTICE		

- In the below conditions the system will be canceled. Park your vehicle manually.
 - When the ABS is activated.
 - When the TCS/ESC is turned off.
- When vehicle speed is above 20km/h while searching for a parking space a message "Reduce speed" will appear
- In the below condition the system will not activate.
 - When the TCS/ESC is turned off.

System malfunction

Type A



4 — 115



- If there is a problem with the system, when the system is turned on, the above message will appear. Also, the indicator on the button will not light up and a beep sound will be heard.
- If there is a problem with only the Parking Assist, the Parking Assist System will operate.
 If you notice any problem, have the system checked by a professional workshop. Kia recommends to visit an authorized Kia dealer/service partner.

How the system works (Exit mode)

The Exit Mode operates in the below condition:

- 1. Activate the Parking Assist The shift lever should be placed in P (Park).
- 2. Select Exit Mode
 - If the parking mode is selected with the shift lever in N (Neutral) after starting the engine, the

exit mode will be selected automatically and after driving, the parking mode will be selected.

- 3. Check surroundings
- 4. Steering wheel control
 - 1. Shift according to the instruction on the LCD display.
 - 2. Drive slowly with the brake pedal applied.
- 5. Exiting complete If necessary, manually adjust position of vehicle.

* NOTICE

- Before activating the system check if the conditions are possible to use the system.
- For your safety, always apply the brake pedal except for when driving.

1. Activate Parking Assist

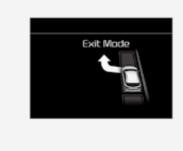


• Press the Parking Assist button (the button indicator will illuminate). • The Parking Assist System will be activated (the button indicator will illuminate).

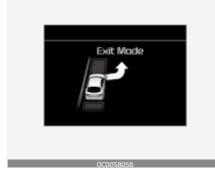
A warning sound will be heard if an obstacle is detected.

- Press the Parking Assist button again for more than 1.5 seconds to turn off the system.
- The Parking Assist defaults to the OFF position whenever the ignition switch is turned on.
- 2. Select Exit Mode

Left side - Parallel exit



Right side - Parallel exit



- Select the mode by pressing the Parking Assist button with the shift lever in P (Park) and the brake pedal depressed.
- The left side parallel mode is selected automatically when the Parking Assist is activated.
- To select the right side parallel mode press the Parking Assist button once more.
- If the button is pressed again, the system will turn off.

3. Check surroundings

Left side - Parallel exit



Right side - Parallel exit



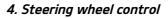
The Parking Assist checks the front and rear space to exit the vehicle from the parking space.

* NOTICE

- When checking surroundings, if the front or rear vehicle (or object) is too near, the system may not work properly.
- The system may not operate normally in the following conditions:
 - 1. When the sensors are frozen.
 - 2. When the sensors are dirty.
 - 3. When it snows or rains heavily.
 - 4. When a pillar or object is near.
- When exiting the parking space if an obstacle is detected that may cause an accident, the system may cancel.
- If the space is too small to exit the system may cancel.

A CAUTION

- If searching surroundings is completed, continue using the system after checking the surrounding area.
- The Exit mode may be activated unintentionally, when the shift lever is in P (Park) or N (Neutral) if the Parking Assist button is pressed.





 The above message will appear if the shift lever is in D (Drive) or R (Reverse) according to the distance of the front and rear object from the sensor. The steering wheel will be controlled automatically.

- The system will be canceled if you firmly hold the steering wheel while it is controlled automatically.
- The system will be canceled if vehicle speed is over 7km/h (4.3mph).

A WARNING

Do not put your hands between the steering wheel while it is being automatically controlled.

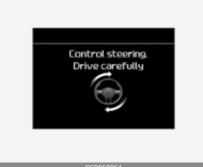
To cancel the system while exiting

- Press the Parking Assist System button.
- Press the Parking Assist button while the steering wheel is controlled by the system.

A CAUTION

Always drive slowly with the brake pedal applied.

5. Exiting Complete



When assisting the driver exit the parking space is completed the above message will appear.

Turn the steering wheel to the direction you are leaving and manually control the steering wheel while leaving the parking space.

- When leaving the parking space turn the steering wheel as much as you can to the direction you are leaving, and then drive the vehicle slowly by depressing the accelerator pedal.
- Always check the surrounding before driving your vehicle if the Parking Assist System warning sound (distance from object is within 30cm: continuous beep) is heard for the object is close to your vehicle.

If the vehicle gets too close to the object, the warning will not sound.

 The system will be canceled for safety reasons if the vehicle is parked at a small space near a wall.

Additional instructions (Messages) System malfunction Manually control steering wheel Type A Check Parking Assist (PA) system Parking Assist (PA) conditions not met Type B

When the Parking Assist is operating, a message may appear regardless of the exiting order.

The messages will appear according to the circumstances. Follow the instructions provided while parking your vehicle with the Parking Assist.

* NOTICE



- In the below conditions the system will be canceled. Park your vehicle manually.
 - When the ABS is activated.
 - When the TCS/ESC is turned off.
- In the below condition the system will not activate

- When the TCS/ESC is turned off.



 If there is a problem with the system, when the system is

turned on, the above message will appear.

Also, the indicator on the button will not light up and a beep sound will be heard.

• If there is a problem with only the Parking Assist, the Parking Assist System will operate.

If you notice any problem, have the system checked by a professional workshop. Kia recommends to visit an authorized Kia dealer/service partner.

A CAUTION

The system may not work properly by providing incorrect messages when the sensors are interfered by other vehicle sensors and noise, or it is on a road that interferes with receiving signals.

Rear view monitor (if equipped)

Type A



Type B



Type C





The Rear view monitor will activate when the engine is running and the shift lever is in the R (Reverse) position.

This is a supplemental system that shows the area behind the vehicle through the mirror or navigation display while backing-up.

A WARNING

The Rear view monitor is not a safety device. It only serves to assist the driver in identifying objects directly behind the middle of the vehicle. The camera does NOT cover the complete area behind the vehicle.

A WARNING

- Never rely solely on the rear camera display when backingup.
- Always look around your vehicle to make sure there are no objects or obstacles before moving the

vehicle in any direction to prevent a collision.

 Always pay close attention when the vehicle is driven close to objects, particularly pedestrians, and especially children.

A CAUTION

- Do not spray the camera or its surrounding area directly with a high pressure washer. Shock applied from high pressure water may cause the device to not operate normally.
- Do not use any cleanser containing acid or alkaline detergents when cleaning the lens. Use only a mild soap or neutral detergent, and rinse thoroughly with water.

* NOTICE

Always keep the camera lens clean. The camera may not work normally if the lens is covered with dirt, water or snow.

Lighting

Battery saver function

- The purpose of this feature is to prevent the battery from being discharged. The system automatically turns off the parking lights when the driver removes the ignition key (smart key: turns off the engine) and opens the driver-side door.
- With this feature, the parking lights will be turned off automatically if the driver parks on the side of road at night.
 If necessary, to keep the lights on when the ignition key is removed, (smart key: turns off the engine) perform the following:
 - 1. Open the driver-side door.
 - 2. Turn the parking lights OFF and ON again using the light switch on the steering column.

Headlight escort function (if equipped)

The headlights (and/or taillights) will remain on for approximately 5 minutes after the ignition key is removed when the engine is turned off. However, if the driver's door is opened and closed, the headlights are turned off after 15 seconds.

The headlights can be turned off by pressing the lock button on the transmitter (or smart key) twice or turning off the light switch from the headlight or Auto light position.

A CAUTION

If the driver gets out of the vehicle through other doors (except driver's door), the battery saver function does not operate and the headlight escort function does not turn off automatically. Therefore, It causes the battery to be discharged. In this case, make sure to turn off the lamp before getting out of the vehicle.

Headlight welcome function (if equipped)

When the headlight switch is in the ON or AUTO position and all doors (and trunk) are closed and locked, if you press the door unlock button on the transmitter (or smart key), the headlights will come on for about 15 seconds.

If the headlight switch is in the AUTO position, the function can only operate at night.

At this time, if you press the door unlock button again or door lock button on the transmitter (or smart key), the headlights will turn off immediately.

* Traffic Change (For Europe)

The low beam light distribution is asymmetric. If you go abroad

to a country with opposite traffic direction, this asymmetric part will dazzle oncoming car driver. To prevent dazzle, ECE regulation demand several technical solutions (ex. automatic change system, adhesive sheet, down aiming). This headlamps are designed not to dazzle opposite drivers. So, you need not change your headlamps in a country with opposite traffic direction.

Lighting control



The light switch has a Headlight and a Parking light position.

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

- 1. Off position
- 2. Auto light position
- 3. Parking light position
- 4. Headlight position

Parking light position (२०६२)



When the light switch is in the parking light position (2nd position), the tail position, license and instrument panel lights will turn ON.

Headlight position (트〇)



When the light switch is in the headlight position (3rd position), the head, tail, position, license and instrument panel lights are ON.





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

Auto light position



When the light switch is in the AUTO light position, the taillights (bulb type) and headlights will be turned ON or OFF automatically depending on the amount of light outside the vehicle.

However, LED type taillight is always on regardless of the amount of light outside the vehicle.

A CAUTION

- Never place anything over sensor (1) located on the instrument panel, this will ensure better autolight system control.
- Don't clean the sensor using a window cleaner, the cleanser may leave a light film which could interfere with sensor operation.

 If your vehicle has window tint or other types of metallic coating on the front windshield, the Auto light system may not work properly.

High beam operation



To turn on the high beam headlights:

 Push the lever away from you.
 Pull it back for low beams.
 The high beam indicator will light when the headlight high beams are switched on. To prevent the battery from being discharged, do not leave the lights on for a prolonged time while the engine is not running.

A WARNING

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

To flash the headlights:

• Pull the lever towards you. It will return to the normal (low beam) position when released.



The headlight switch does not need to be on to use this flashing feature.

High Beam Assist (if equipped)

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



Operating condition

- 1. Place the light switch in the AUTO position.
- 2. Turn on the high beam by pushing the lever away from you. The High Beam Assist (Juno) indicator will illuminate.
- 3. The High Beam Assist will turn on when vehicle speed is above 45kph (28mph).
 - If the lever is pushed away when the High Beam Assist is operating, the High Beam Assist will turn off and the high beam will be on continuously. The High Beam Assist ([■]Auto) indicator will turn off.
 - If the lever is pulled towards you when the high beam is on with operating High Beam Assist, the High Beam Assist will turn off.
- 4. If the light switch is placed to the headlamp position, the High Beam Assist will turn off and the low beam will be on continuously.

The high beam switches to low beam in the below conditions.

- When the High Beam Assist is off.
- When the light switch is not in the AUTO position.
- When the headlamp is detected from the on-coming vehicle.
- When the tail lamp is detected from the front vehicle.
- When the surrounding is bright enough high beams are not needed.

- When streetlights or other lights are detected.
- When vehicle speed is below 35km/h (22 mph).
- When headlamp/taillamp of bicycle/motorcycle is detected.

A CAUTION

The system may not operate normally in the below conditions.

- When the light from the oncoming or front vehicle is not detected because of lamp damage, hidden from sight, etc.
- When the lamp of the on-coming or front vehicle is covered with dust, snow or water.
- When the light from the oncoming or front vehicle is not detected because of exhaust fume, smoke, fog, snow, etc.
- When the front window is covered with foreign matters such as ice, dust, fog, or is damaged.
- When there is a similar shape lamp with the front vehicle's lamps.
- When it is hard to see because of fog, heavy rain or snow.
- When the headlamp is not repaired or replaced at an authorized dealer.
- When headlamp aiming is not properly adjusted.
- When driving on a narrow curved road or rough road.
- When driving downhill or uphill.

- When only part of the vehicle in front is visible on a crossroad or curved road.
- When there is a traffic light, reflecting sign, flashing sign or mirror.
- When the road conditions are bad such as being wet or covered with snow.
- When the front vehicle's headlamps are off but the fog lamps on.
- When a vehicle suddenly appears from a curve.
- When the vehicle is tilted from a flat tire or being towed.
- When the LKA (Lane Keeping Assist) system warning light illuminates.

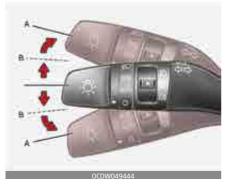
WARNING

- Do not place any accessories, stickers or tint the windshield.
- Have the windshield glass replaced from an authorized dealer.
- Do not remove or impact related parts of the High Beam Assist system.
- Be careful that water doesn't get into the High Beam Assist unit.
- Do not place objects on the dashboard that reflects light such as mirrors, white paper, etc. The system may malfunction if sunlight is reflected.
- At times, the High Beam Assist system may not work properly,

Lighting

always check the road conditions for your safety. When the system does not operate normally, manually change between the high beam and low beam.

Turn signals and lane change signals



The ignition switch must be on for the turn signals to function. To turn on the turn signals, move the lever up or down (A).

The green arrow indicators on the instrument panel indicate which turn signal is operating. They will selfcancel after a turn is completed.

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 (B). 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 will require replacement.

One-touch lane change function

To activate a one-touch turn signal function, move the turn signal lever slightly and then release it. The lane change signals will blink 3, 5 or 7 times.

You can activate/deactivate the One Touch Turn Signal function or choose the number of blinks (3, 5, or 7) from the User Settings mode on the LCD WINDOWS. For more details, refer to "User settings mode" on page 4-75.

* NOTICE

If an indicator flash is abnormally quick or slow, a bulb may be burned out or have a poor electrical connection in the circuit.

Front fog light (if equipped)



Fog lights are used to provide improved visibility when visibility is poor due to fog, rain or snow, etc. The fog lights will turn on when the fog light switch (1) is turned on after the parklight is turned on.

To turn off the fog lights:

• Turn the fog light switch (1) to the ON position.

A CAUTION

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

Rear fog light (if equipped)



To turn the rear fog lights on, turn the rear fog light switch (1) to the on position when the headlight is turned on.

Also, the rear fog lights turn on when the rear fog light switch is turned on after the front fog light switch (if equipped) is turned on and the headlight switch is in the parklight position.

To turn the rear fog lights off:

• Turn the rear fog light switch to the on position again.

Daytime running light (if equipped)

The Daytime Running Lights (DRL) can make it easier for others to see the front of your vehicle during the day. DRL can be helpful in many different driving conditions, and it is especially helpful after dawn and before sunset.

The DRL system turns OFF when: 1. The headlight switch is ON.

- 2. The engine is OFF.
- 3. The front fog light is on.
- 4. Engaging the parking brake.

Headlight leveling device



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

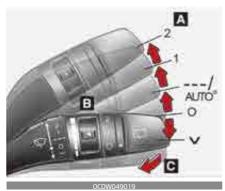
The higher the number of the switch position, the lower the headlight beam level. Always keep the headlight beam at the proper leveling position, or headlights may dazzle other road users.

Listed below are the examples of proper switch settings. For loading conditions other than those listed below, adjust the switch position so that the beam level may be the nearest as the condition obtained according to the list.

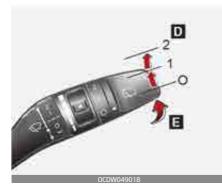
Loading condition	Switch position
Driver only	0
Driver + Front passenger	0
Full passengers (including driver)	1
Full passengers (including driver) + Maximum permissible loading	2
Driver + Maximum permissible loading	3

Wipers and washers

Windshield wiper/washer



Rear window wiper/washer



A: Wiper speed control (front)

- √ Single wipe
- O Off
- --- Intermittent wipe
- AUTO* Auto control wipe
- 1 Low wiper speed
- 2 High wiper speed
- B: Intermittent control wipe time adjustment
- C: Wash with brief wipes (front)*
- D: Rear wiper/washer control*

- 2 Continuous wipe
- 1 Intermittent wipe*
- 0-0ff

E: Wash with brief wipes (rear)*

* if equipped

Windshield wipers

Operates as follows when the ignition switch is turned ON.

Solution in this position.

- **0**: Wiper is not in operation
- ---: Wiper operates intermittently at the same wiping intervals. Use this mode in light rain or mist. To vary the speed setting, turn the speed control knob.
- 1: Normal wiper speed
- 2: Fast wiper speed

* NOTICE

If there is heavy accumulation of snow or ice on the windshield, defrost the windshield for about 10 minutes, or until the snow and/ or ice is removed before using the windshield wipers to ensure proper operation. If you do not remove the snow and/or ice before using the wiper and washer, it may damage the Wiper and washer system.

Auto control (if equipped)



The rain sensor (1) located on the upper end of the windshield glass senses the amount of rainfall and controls the wiping cycle for the proper interval. The more it rains, the faster the wiper operates. When the rain stops, the wiper stops.

To vary the speed setting, turn the speed control knob (1).

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

A CAUTION

When the ignition switch is ON and the windshield wiper switch is placed in the AUTO mode, use caution in the following situations to avoid any injury to the hands or other parts of the body:

- 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.

A CAUTION

 When washing the vehicle, set the wiper switch in the OFF (O) position to stop the auto wiper operation.

The wiper may operate and be damaged if the switch is set in the AUTO mode while washing the vehicle.

- Do not remove the sensor cover located on the upper end of the passenger side windshield glass.
 Damage to system parts could occur and may not be covered by your vehicle warranty.
- When starting the vehicle in winter, set the wiper switch in

the OFF (O) position. Otherwise, wipers may operate and ice may damage the windshield wiper blades. Always remove all snow and ice and defrost the windshield properly prior to operating the windshield wipers.

 When tinting the windshield, be careful of any fluid getting into the sensor located in the top center of the front windshield. It may damage the related parts.

Windshield washers



OCDW049020

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

Use this function when the windshield is dirty.

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

If the 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 reservoir.

The reservoir filler neck is located in the front of the engine compartment on the passenger side.

A CAUTION

To prevent possible damage to the washer pump, do not operate the washer when the fluid reservoir is empty.

A WARNING

Do not use the washer in freezing temperatures without first warming the windshield with the defrosters; the washer solution could freeze on the windshield and obscure your vision.

A CAUTION

- 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 them.
- To prevent damage to the wiper arms and other components, do not attempt to move the wipers manually.

• To prevent possible damage to the wipers and washer system, use anti-freezing washer fluids in the winter season or cold weather.

Headlight washer (if equipped)

If your vehicle is equipped with the headlight washer it will operate at the same time when you operate the windshield washer. However, if this function is operated once, the headlight washer will not operate within 15 minutes. It will operate when the headlight is ON and the ignition switch or ENGINE START/ STOP button is in the ON position.

The washer fluid will be sprayed on to the headlights.

* NOTICE

- Check the headlight washers periodically to confirm that the washer fluid is being sprayed properly onto the headlight lenses.
- The headlight washer can be operated 15 minutes after being operated last time.

Rear window wiper and washer switch



The rear window wiper and washer switch is located at the end of the wiper and washer switch lever. Turn the switch to the desired position to operate the rear wiper and washer.

HI / 2 - Normal wiper operation

LOW / 1 - Intermittent wiper operation (if equipped)

OFF / \bigcirc - Wiper is not in operation



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

Heated washer nozzle (if equipped)

The heated washer nozzle function defreeze the washer nozzles in freezing weather.

The heated washer nozzle will turn on and off automatically when the ignition switch is in ON or when the engine is running in following conditions:

- Turns ON when the outside temperature is below 5°C, and OFF when it is over 10°C.
- The washer fluid defreezing speed may be slower when the ignition is in ON, than compared to when the engine is running.
- When the ignition is in ON, after 20 minutes of operation, the system will turn off automatically to prevent possible battery discharge.
- After the engine is running, the washer fluid will defrost after 5 to 10 minutes.
- If the engine has been started within the operating temperature, the heated nozzle remains ON even after 20 minutes.

* NOTICE

In below conditions, the heated washer nozzle may not function properly.

- The washer fluids in the washer reservoir is frozen.
- Outside temperature sensor is malfunctioning.

Interior light

Interior light

A CAUTION

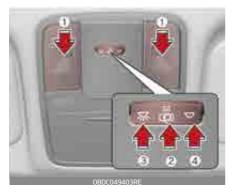
Do not use the interior lights for extended periods when engine is not running. It may cause battery discharge.

A WARNING

Do not use the interior lights when driving in the dark. Accidents could happen because the view may be obscured by interior lights.

Map lamp

Type A





Type B

OBDC049058RE

(1): Press the lamps to turn the front map lamps on and off. X (2)

(2):

- The map lamp and room lamp comes on when a door is opened. The lamps go out after approximately 30 seconds.
- The map lamp and room lamp comes on for approximately 30 seconds when doors are unlocked with a transmitter or smart key as long as the doors are not opened.
- The map lamp and room lamp will stay on for approximately 20 minutes if a door is opened with the ignition switch in the ACC or LOCK/OFF position.
- The map lamp and room lamp will stay on continuously if the door is opened with the ignition switch in the ON position.
- The map lamp and room lamp will go out immediately if the ignition switch is changed to

Interior light

the ON position or all doors are locked.

- To turn off the DOOR mode, press the DOOR button (2) once again (not pressed).

* NOTICE

The DOOR mode and ROOM mode can not be selected at a time.

Front Map Lamp:

- 퍘 (3): Press this switch to turn the front map lamps on.

Room lamp

Type A





• 🚟: The light stays on at all times.

Luggage room lamp

Type A



OCDW049024



The luggage room lamp comes on when the trunk (tailgate) is opened.

A CAUTION



The luggage room lamp comes on as long as the trunk (tailgate) opens. To prevent unnecessary charging system drain, close the trunk (tailgate) securely after using the luggage room.

Vanity mirror lamp (if equipped)



Push the switch to turn the light on or off.

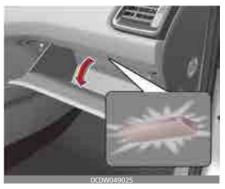
- button is pressed.
- O: The lamp will turn off if this button is pressed.

A CAUTION

Vanity mirror lamp

Always have the switch in the off position when the vanity mirror lamp is not in use. If the sunvisor is closed without the lamp off, it may discharge the battery or damage the sunvisor.

Glove box lamp (if equipped)



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

A CAUTION

To prevent unnecessary charging system drain, close the glove box securely after using the glove box.

Defroster

A CAUTION

To prevent damage to the conductors bonded to the inside surface of the rear window, never use sharp instruments or window cleaners containing abrasives to clean the window.

* NOTICE

If you want to defrost and defog the front windshield, refer to "Windshield defrosting and defogging" on page 4-161.

Rear window defroster

The defroster heats the window to remove frost, fog and thin ice from the rear window, while the engine is running.



To activate the rear window defroster:

• Press the rear window defroster button.

The indicator on the rear window defroster button illuminates when the defroster is ON.

If there is heavy accumulation of snow on the rear window, brush it off before operating the rear defroster.

The rear window defroster automatically turns off after approximately 20 minutes or when the ignition switch is turned off. To turn off the defroster, press the rear window defroster button again.

Outside rear view mirror defroster (if equipped)

If your vehicle is equipped with the outside rear view mirror defrosters, they will operate at the same time you turn on the rear window defroster.

* NOTICE

The rear window defroster may turn off in the below conditions.

 Engine temperature is less than 25°C and the vehicle speed is from 1 ~ 10 km/h with the gear position in "D" or "R" If the vehicle stops or the vehicle speed is over 10 km/h, the rear window defroster turns on again.

Manual climate control system (if equipped)

Type A



Type B



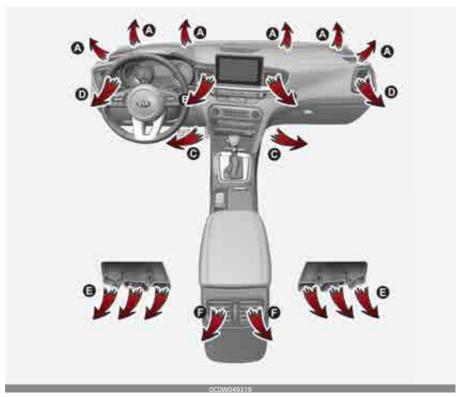
- 1. Fan speed control knob
- 2. Temperature control knob
- 3. Air conditioning button (if equipped)
- 4. Rear window defroster button
- 5. Air intake control button
- 6. Mode selection knob

OCDW049318



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

Heating and air conditioning



- 1. Start the engine.
- 2. Set the mode to the desired position.
 For improving the effectiveness of heating and cooling;
 Heating: Cooling: Cooli
- 3. Set the temperature control to the desired position.
- 4. Set the air intake control to the outside (fresh) air position.
- 5. Set the fan speed control to the desired speed.
- 6. If air conditioning is desired, turn the air conditioning (if equipped) system on.

_____ 141

Mode selection



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

Air can be directed to the floor, dashboard outlets, or windshield. Five symbols are used to represent Face, Bi-Level, Floor, Floor-Defrost and Defrost air position.

Face-Level (B, D)

Air flow is directed toward the upper body and face. Additionally, each outlet can be controlled to direct the air discharged from the outlet.

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

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

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

Most of the air flow is directed to the floor and the windshield with a

small amount directed to the side window defrosters.

Defrost-Level (A, D)

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

Instrument panel vents



The outlet vents can be opened or closed separately using the thumbwheel. To close the vent, rotate it downward to the maximum position.

Also, you can adjust the direction of air delivery from these vents using the vent control lever as shown.

Temperature control

The temperature control knob allows you to control the temperature of the air flowing from the ventilation system.



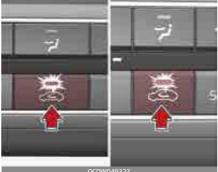
OCDW049322

To change the air temperature in the passenger compartment:

• Turn the knob to the right position for warm and hot air or left position for cooler air.

Air intake control

The air intake control is used to select the outside (fresh) air position or recirculated air position.



OCDW049323

To change the air intake control position:

· Press the control button.

Recirculated air position



With the recirculated air position selected, air from the passenger compartment

will be drawn through the heating system and heated or cooled according to the function selected.

Outside (fresh) air position

W pc

With the outside (fresh) air position selected, air enters the vehicle from outside and

is heated or cooled according to the function selected.

* NOTICE

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

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

A WARNING

 Continue using the climate control system in the recirculated air position may allow humidity to increase inside the vehicle which may fog the glass and obscure visibility.

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

Fan speed control

The ignition switch must be in the ON position for fan operation.

an anald control



The fan speed control knob allows you to control the fan speed of the air flowing from the ventilation system.

To change the fan speed:

• Turn the knob to the right for higher speed or left for lower speed.

To turn off the blowers



To turn off the blowers:

• Turn the fan speed control knob to the "0" position.

Air conditioning (A/C)



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

• Press the button again to turn the air conditioning system off.

System operation

Ventilation

- 1. Set the mode to the 龙 position.
- 2. Set the air intake control to the outside (fresh) air position.
- 3. Set the temperature control to the desired position.
- 4. Set the fan speed control to the desired speed.

Heating

- 1. Set the mode to the **___** position.
- 2. Set the air intake control to the outside (fresh) air position.
- 3. Set the temperature control to the desired position.
- 4. Set the fan speed control to the desired speed.
- 5. If dehumidified heating is desired, turn the air conditioning system (if equipped) on.
 - If the windshield fogs up, set the mode to the I position.

Operation Tips

• To keep dust or unpleasant fumes from entering the vehicle through the ventilation system, temporarily set the air intake control to the recirculated air position. Be sure to return the control to the fresh air position when the irritation has passed to keep fresh air in the vehicle. This will help keep the driver alert and comfortable.

- Air for the heating/cooling system is drawn in through the grilles just ahead of the windshield. Care should be taken that these are not blocked by leaves, snow, ice or other obstructions.
- To prevent interior fog on the windshield, set the air intake control to the fresh air position and fan speed to the desired position, turn on the air conditioning system, and adjust the temperature control to desired temperature.

Air conditioning

Kia Air Conditioning Systems are filled with environmentally friendly refrigerant*.

- 1. Start the engine. Push the air conditioning button.
- 2. Set the mode to the 龙 position.
- 3. Set the air intake control to the outside air or recirculated air position.
- 4. Adjust the fan speed control and temperature control to maintain maximum comfort.
- * : Your vehicle is filled with R-134a or R-1234yf according to the regulation in your country at the time of producing. You can find out which air conditioning refrigerant is applied your vehicle at the label inside of engine room. Refer to "Refrigerant label (if equipped)" on page 9-22.

A CAUTION

- The refrigerant system should only be serviced by trained and certified technicians to insure proper and safe operation.
- The refrigerant system should be serviced in a well-ventilated place.
- The air conditioning evaporator (cooling coil) shall never be repaired or replaced with one removed from a used or salvaged vehicle and new replacement MAC evaporators shall be certified (and labeled) as meeting SAE Standard J2842.

* NOTICE

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

conditioning should only be used with the windows closed.

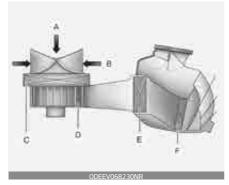
Air conditioning system operation tips

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

operation in this mode may cause the air inside the vehicle to become stale.

 During cooling operation, you may occasionally notice a misty air flow because of rapid cooling and humid air intake. This is a normal system operation characteristic.

Climate control air filter (if equipped)



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

The climate control air filter installed behind the glove box filters the dust or other pollutants that come into the vehicle from the outside through the heating and air conditioning system. If dust or other pollutants accumulate in the filter over a period of time, the air flow from the air vents may decrease, resulting in moisture accumulation on the inside of the windshield even when the outside (fresh) air position is selected. If this happens, have the climate control air filter replaced by a professional workshop. Kia recommends to visit an authorized Kia dealer/service partner.

* NOTICE

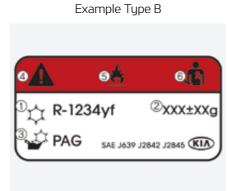
- Replace the filter according to the Maintenance Schedule. If the vehicle is being driven in severe conditions such as dusty or rough roads, more frequent air conditioner filter inspections and changes are required.
- When the air flow rate suddenly decreases, have the system checked by a professional workshop. Kia recommends to visit an authorized Kia dealer/ service partner.

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Air Conditioning refrigerant label

Example Type A





CDW069043

* The actual Air Conditioning refrigerant label in the vehicle may differ from the illustration.

Each symbols and specification on air conditioning refrigerant label means as below;

- 1. Classification of refrigerant
- 2. Amount of refrigerant
- 3. Classification of Compressor lubricant
- 4. Caution
- 5. Flammable Refrigerant

- 6. Requires registered technician to service Air Conditioning system
- 7. Service manual

You can find out which air conditioning refrigerant is applied your vehicle at the label inside of the engine room.

* Refer to "Refrigerant label (if equipped)" on page 9-22.

Checking the amount of air conditioner refrigerant and compressor lubricant

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

Therefore, if abnormal operation is found, have the system inspected by a professional workshop. Kia recommends to visit an authorized Kia dealer/service partner.

A WARNING

Vehicles equipped with R-134a*

Because the refrigerant is at very high pressure, the air conditioning system should only be serviced by trained and certified technicians. It is important that the correct type and amount of oil and refrigerant is used.

Otherwise, it may cause damage to the vehicle and personal injury.

WARNING

Vehicles equipped with R-1234yf*

Since the refrigerant is mildly inflammable and operated at high pressure, the air conditioning system should only be serviced by trained and certified technicians. (Refer to the SAE J2845)

It is important that the correct type and amount of oil and refrigerant are used.

All refrigerants should be reclaimed with proper equipment.

Venting refrigerants directly to the atmosphere is harmful to individuals and environment.

Failure to heed these warnings can lead to serious injuries.

* Your vehicle is filled with R-134a or R-1234yf according to the regulation in your country at the time of producing. You can find out which air conditioning refrigerant is applied your vehicle at the label inside of engine room. Refer to "Refrigerant label (if equipped)" on page 9-22.

A CAUTION

AC Repair

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

Automatic climate control system (if equipped)



- 1. Driver's temperature control knob
- 2. AUTO (automatic control) button
- 3. Front windshield defroster button
- 4. Rear window defroster button
- 5. Air conditioning button
- 6. Air intake control button
- 7. Blower OFF button
- 8. Fan speed control button
- 9. Mode selection button
- 10. Passenger's temperature control knob
- 11. SYNC button

▲ CAUTION



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

Automatic heating and air conditioning



1. Push the AUTO button. The modes, fan speeds, air intake and air-conditioning will be controlled automatically according to the temperature setting. Front windshield defroster button (Press the button one more time to deselect the front windshield defroster function.

The AUTO sign will illuminate on the information display once again.)

- Air intake control button
- Fan speed control knob The selected function will be controlled manually while other functions operate automatically.
- For your convenience and to improve the effectiveness of the climate control, use the AUTO button and set the temperature to 23°C (73°F).



OCDW049303

2. Set the temperature control knob to set the desired temperature.

* NOTICE



- To turn the automatic operation off, select any button or switch of the following:
 - Mode selection button
 - Air conditioning button



* NOTICE

Never place anything over the sensor located on the instrument panel to ensure better control of the heating and cooling system.

Manual heating and air conditioning

The heating and cooling system can be controlled manually by pushing buttons other than the AUTO button. In this case, the system works sequentially according to the order of buttons selected.

When pressing any button (or turning any knob) except the AUTO button while using automatic operation, the functions not selected will be controlled automatically.

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

To improve the effectiveness of heating and cooling:

- Heating: 🥿 🍙
- Cooling:
- 3. Set the temperature control to the desired position.
- 4. Set the fan speed control to the desired speed.
- 5. If air conditioning is desired, turn the air conditioning system on.

Press the AUTO button in order to convert to full automatic control of the system.

Mode selection

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



Mode selection button

You can select various modes using the face, floor and/or defrost mode button.

If you push the button once, the corresponding switch will turn on, and if you push the button again, the switch will turn off.

Air flow is directed toward the upper body and face. Additionally, each outlet can be controlled to direct the air discharged from the outlet.

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

Most of the air flow is directed to the floor.

☞ Floor/Defrost-Level (A, C, D, E)

Most of the air flow is directed to the floor and the windshield with a

small amount directed to the side window defrosters.

Defrost-Level (A, D)

Most of the air flow is directed to the windshield.

Defrost mode



When you select the defrost mode, the following system settings will be made automatically:

- The air conditioning system will be turned on.
- The fan speed will be set to the high speed.

To turn the defrost mode off, press the mode button or defrost button again or AUTO button.

Instrument panel vents



The outlet port can be opened or closed separately using the horizontal thumbwheel. To close the vent, rotate it downward to the maximum position. To open the vent, rotate it upward to the desired position.

Also, you can adjust the direction of air delivered from these vents using the vent control lever as shown.

Temperature control



The temperature will increase to the maximum (HI) by turning the knob to the right extremely.

The temperature will decrease to the minimum (Lo) by turning the knob to the left extremely.

When turning the knob, the temperature will increase or decrease by 0.5°C/1°F. When set to the lowest temperature setting, the air conditioning will operate continuously.

Adjusting the driver and passenger side temperature equally



- Press the "SYNC" button to adjust the driver and passenger side temperature equally. The passenger side temperature will be set to the same temperature as the driver side temperature.
- Turn the driver side temperature control knob.

The driver and passenger side temperature will be adjusted equally.

Adjusting the driver and passenger side temperature individually

- Press the "SYNC" button again to adjust the driver and passenger side temperature individually. The illumination of button turns off.
- Operate the driver side temperature control knob to adjust the driver side temperature.
- Operate the passenger side temperature control knob to adjust the passenger side temperature.

Temperature conversion

You can switch the temperature mode between Centigrade to Fahrenheit as follows:

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

The display will change from Centigrade to Fahrenheit, or from Fahrenheit to Centigrade.

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

Air intake control

This is used to select recirculated air position.



To change the air intake control position:

• Press the control button.

Recirculated air position



With the recirculated air position selected, air from the passenger compartment

will be drawn through the heating system and heated or cooled according to the function selected.

* NOTICE

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

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

A WARNING

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

Fan speed control



The fan speed can be set to the desired speed by operating the fan speed control knob.

The higher the fan speed is, the more air is delivered.

Pressing the OFF button turns off the fan.

Air conditioning (A/C)



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

OFF mode



 Press the OFF button to turn off the air climate control system. However, you can still operate the air intake buttons as long as the ignition switch is in the ON position.

System operation

Ventilation

- 1. Set the mode to the $\neg i$ position.
- 2. Set the temperature control to the desired position.
- 3. Set the fan speed control to the desired speed.

Heating

- 1. Set the mode to the **___** position.
- 2. Set the temperature control to the desired position.
- 3. Set the fan speed control to the desired speed.
- 4. If dehumidified heating is desired, turn the air conditioning system (if equipped) on.
 - If the windshield fogs up, set the mode to the ∰ position.

Operation Tips

• To keep dust or unpleasant fumes from entering the vehicle through the ventilation system, temporarily set the air intake control to the recirculated air position. Be sure to return the control to the fresh air position when the irritation has passed to keep fresh air in the vehicle. This will help keep the driver alert and comfortable.

- Air for the heating/cooling system is drawn in through the grilles just ahead of the windshield. Care should be taken that these are not blocked by leaves, snow, ice or other obstructions.
- To prevent interior fog on the windshield, set the air intake control to the fresh air position and fan speed to the desired position, turn on the air conditioning system, and adjust the temperature control to desired temperature.

Air conditioning

Kia Air Conditioning Systems are filled with environmentally friendly refrigerant^{*}.

- 1. Start the engine. Push the air conditioning button.
- 2. Set the mode to the 龙 position.
- 3. Set the air intake control to the outside air or recirculated air position.
- 4. Adjust the fan speed control and temperature control to maintain maximum comfort.
- * : Your vehicle is filled with R-134a or R-1234yf according to the regulation in your country at the time of producing. You can find out which air conditioning refrigerant is applied your vehicle at the label inside of engine room. Refer to "Refrigerant label (if equipped)" on page 9-22.

A CAUTION

- The refrigerant system should only be serviced by trained and certified technicians to insure proper and safe operation.
- The refrigerant system should be serviced in a well-ventilated place.
- The air conditioning evaporator (cooling coil) shall never be repaired or replaced with one removed from a used or salvaged vehicle and new replacement MAC evaporators shall be certified (and labeled) as meeting SAE Standard J2842.

* NOTICE

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

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conditioning should only be used with the windows closed.

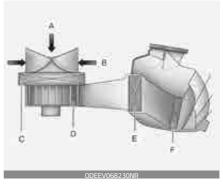
Air conditioning system operation tips

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

operation in this mode may cause the air inside the vehicle to become stale.

• During cooling operation, you may occasionally notice a misty air flow because of rapid cooling and humid air intake. This is a normal system operation characteristic.

Climate control air filter (if equipped)



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

The climate control air filter installed behind the glove box filters the dust or other pollutants that come into the vehicle from the outside through the heating and air conditioning system. If dust or other pollutants accumulate in the filter over a period of time, the air flow from the air vents may decrease, resulting in moisture accumulation on the inside of the windshield. If this happens, have the climate control air filter replaced by a professional workshop. Kia recommends to visit an authorized Kia dealer/service partner.

* NOTICE

- Replace the filter according to the Maintenance Schedule. If the vehicle is being driven in severe conditions such as dusty or rough roads, more frequent air conditioner filter inspections and changes are required.
- When the air flow rate suddenly decreases, have the system checked by a professional workshop. Kia recommends to visit an authorized Kia dealer/ service partner.

Air Conditioning refrigerant label

Example Type A



Example Type B



DCDW069043

* The actual Air Conditioning refrigerant label in the vehicle may differ from the illustration.

Each symbols and specification on air conditioning refrigerant label means as below ;

- 1. Classification of refrigerant
- 2. Amount of refrigerant
- 3. Classification of Compressor lubricant
- 4. Caution
- 5. Flammable Refrigerant

1

- 6. Requires registered technician to service Air Conditioning system
- 7. Service manual

You can find out which air conditioning refrigerant is applied your vehicle at the label inside of the engine room.

* Refer to "Refrigerant label (if equipped)" on page 9-22.

Checking the amount of air conditioner refrigerant and compressor lubricant

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

Therefore, if abnormal operation is found, have the system inspected by a professional workshop.

Kia recommends to visit an authorized Kia dealer/service partner.

A WARNING

Vehicles equipped with R-134a*

Because the refrigerant is at very high pressure, the air conditioning system should only be serviced by trained and certified technicians. It is important that the correct type and amount of oil and refrigerant is used. Otherwise, it may cause damage to the vehicle and personal injury.

A WARNING

Vehicles equipped with R-1234yf*

Since the refrigerant is mildly inflammable and operated at high pressure, the air conditioning system should only be serviced by trained and certified technicians. (Refer to the SAE J2845)

It is important that the correct type and amount of oil and refrigerant are used.

All refrigerants should be reclaimed with proper equipment.

Venting refrigerants directly to the atmosphere is harmful to individuals and environment.

Failure to heed these warnings can lead to serious injuries.

* Your vehicle is filled with R-134a or R-1234yf according to the regulation in your country at the time of producing. You can find out which air conditioning refrigerant is applied your vehicle at the label inside of engine room. Refer to "Refrigerant label (if equipped)" on page 9-22.

A CAUTION

AC Repair

It is important that the correct type and amount of oil and refrigerant

is used, otherwise damage to the vehicle may occur. To prevent damage, the air conditioning system in your vehicle should only be serviced by trained and certified technicians.

Windshield defrosting and defogging

A WARNING

Windshield heating

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

- For maximum defrosting, set the temperature control to the extreme right/hot position and the fan speed control to the highest speed.
- If warm air to the floor is desired while defrosting or defogging, set the mode to the floor-defrost position.
- Before driving, clear all snow and ice from the windshield, rear window, outside rear view mirrors, and all side windows.
- Clear all snow and ice from the hood and air inlet in the cowl grill to improve heater and defroster efficiency and to reduce the probability of fogging up the inside of the windshield.

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Manual climate control system

To defog inside windshield



- 1. Select any fan speed except "0" position.
- 2. Select desired temperature.
- 3. Select the \checkmark or \checkmark position.
- 4. The outside (fresh) air and air conditioning will be selected automatically.

If the air conditioning and outside (fresh) air position are not selected automatically, press the corresponding button manually.

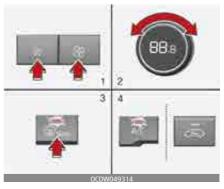
To defrost outside windshield



- 1. Set the fan speed to the highest (extreme right) position.
- 2. Set the temperature to the extreme hot position.
- 3. Select the 🗰 position.
- The outside (fresh) air and air conditioning will be selected automatically.

Automatic climate control system

To defog inside windshield

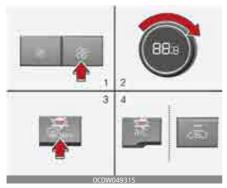


- 1. Set the fan speed to the desired position.
- 2. Select desired temperature.

- 3. Press the defrost button ().
- 4. The air conditioning will be turned on according to the detected ambient temperature and outside (fresh) air position will be selected automatically.

If the air conditioning and outside (fresh) air position are not selected automatically, adjust the corresponding button manually. If the () position is selected, lower fan speed is adjusted to a higher fan speed.

To defrost outside windshield



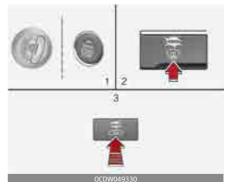
- 1. Set the fan speed to the highest (extreme right) position.
- 2. Set the temperature to the extreme hot (HI) position.
- 3. Press the defrost button ().
- 4. The air conditioning will be turned on according to the detected ambient temperature and outside (fresh) air position will be selected automatically.

If the () position is selected, lower fan speed is adjusted to a higher fan speed.

Defogging logic (if equipped)

To reduce the possibility of fogging up the inside of the windshield, the air intake or air conditioning are controlled automatically according to certain conditions such as *i* or *i* position. To cancel or return to the defogging logic, do the following.

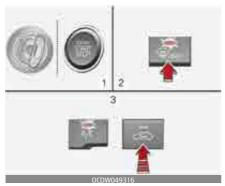
Manual climate control system



- 1. Turn the ignition switch to the ON position.
- 2. Turn the mode selection knob to the defrost position (\mathcal{m}).
- 3. Push the air intake control button at least 5 times within 3 seconds.

The indicator light in the air intake control button will blink 3 times. It indicates that the defogging logic is canceled or returned to the programmed status. If the battery has been discharged or disconnected, it resets to the defog logic status.

Automatic climate control system (if equipped)



- 1. Turn the ignition switch to the ON position.
- 2. Select the defrost position pressing defrost button (***).
- 3. While holding the air conditioning button (A/C) pressed, press the air intake control button at least 5 times within 3 seconds.

The A/C display blinks 3 times. It indicates that the defogging logic is canceled or returned to the programmed status.

If the battery has been discharged or disconnected, it is reset to the defog logic status. Auto defogging system (Only for automatic climate control system) (if equipped)



Auto defogging reduces the possibility of fogging up the inside of the windshield by automatically sensing the moisture of inside the windshield and air flow toward the windshield can increase.

The auto defogging system operates when the AUTO mode is on.

For Europe

If your vehicle is equipped with the auto defogging system, it is automatically activated when the conditions are met.

When the auto fogging system senses moisture inside of the windshield, air flow towards the windshield can increase.

However, if you would like to deactivate the auto defogging system, keep the front defroster button pressed longer than 3 seconds.

The defroster button indicator will blink 3 times to inform you that the system is deactivated.

To re-activate the auto defogging system again, follow the procedure mentioned above and the defroster button indicator will blink 6 times.

If the battery has been disconnected or discharged, it resets to the auto defogging status.

Except Europe



This indicator illuminates when the auto defogging system senses the moisture

of inside the windshield and operates.

If more moisture is in the vehicle, higher steps operate as follow.

Step 1: Operating the air conditioning

Step 2: Outside air position

Step 3: Blowing air flow toward the windshield

Step 4: Increasing air flow toward the windshield

If your vehicle is equipped with the auto defogging system, it is automatically activated when the conditions are met.

However, if you would like to deactivate the auto defogging

system, keep the front defroster button pressed longer than 3 seconds.

The defroster button indicator will blink 3 times to inform you that the system is deactivated.

To re-activate the auto defogging system again, follow the procedure mentioned above and the defroster button indicator will blink 6 times.

If the battery has been disconnected or discharged, it resets to the auto defogging status.

Storage compartments

These compartments can be used to store small items required by the driver or passengers.

A CAUTION

- 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 the storage compartment that the storage compartment cover cannot close securely.

WARNING

Flammable materials

Do not store cigarette lighters, propane cylinders, or other flammable/explosive materials in the vehicle. These items may catch fire and/or explode if the vehicle is exposed to hot temperatures for extended periods.

Center console storage (if equipped)

These compartments can be used to store small items required by the driver or front passenger.



• To open the center console storage pull up the lever.

Sliding armrest (if equipped)

To move forward



• Grab the front portion of the armrest then press up the lever (1) and pull it forward

To move rearward (if equipped)

• Push the armrest rearward with your palm.



Do not grab the front portion of the armrest (1) when moving the armrest rearward. It may pinch your fingers.

Glove box



To open the glove box:

• Pull the handle and the glove box will automatically open. Close the glove box after use.

A WARNING

To reduce the risk of injury in an accident or sudden stop, always keep the glove box door closed while driving.

Do not keep food in the glove box for a long time.

Sunglass holder



To open the sunglass holder:

 Press the cover and the holder will slowly open.

Place your sunglasses with the lenses facing out. To close the sunglass holder, push it up.

WARNING

- Do not keep objects except sunglasses inside the sunglass holder. Such objects can be thrown from the holder in the event of a sudden stop or an accident, possibly injuring the passengers in the vehicle.
- Do not open the sunglass holder while the vehicle is moving. The rear view mirror of the vehicle can be blocked by an opened sunglass holder.
- Do not put the glasses forcibly into a sunglass holder to prevent breakage or deformation of the glasses. It may cause personal injury if you try to open it forcibly

4

when the glasses are jammed in the holder.

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.

5 Door



Wagon



If necessary, Kia recommends to contact an authorized Kia dealer/ service partner.

A CAUTION

To prevent damage to the goods or the vehicle, care should be taken when carrying fragile or bulky objects in the luggage compartment.

WARNING

Avoid eye injury. DO NOT overstretch the luggage net, ALWAYS keep your face and body out of the luggage net's recoil path. DO NOT use when the strap has visible signs of wear or damage.

Luggage board (if equipped)

You can place a first aid kit, a reflector triangle, tools, etc. in the box for easy access.



- 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 luggage board frontward (Luggage board stand itself)

Increase cargo space (if equipped)

If you want to increase cargo space:



- UCDW049072
- 1. Grasp the handle on the top of the cover and lift it.



2. Fold the rear part of the luggage board frontward.



- 3. Pull the luggage board hinge to the end of sliding slot and it will fall down lower to increase cargo space.
- 4. Slide it frontward (refer to the above pictures)

Luggage tray

You can place a first aid kit, a reflector triangle (front tray), tools, etc. in the box for easy access.

Front tray



Center tray



• Grasp the handle on the top of the cover and lift it.

Luggage side tray

The luggage side tray can be used for storing small items.



• To open the cover, pull up the handle and lift the cover.

Interior features

Ashtray (if equipped)

Use the ashtray by putting it into the cup holder right beside.



- To use the ashtray, open the cover.
- To clean or empty the ashtray, pull it out.

A WARNING

Ashtray use

- Do not use the vehicle's ashtrays as waste receptacles.
- Putting lit cigarettes or matches in an ashtray with other combustible materials may cause a fire.

A WARNING

Hot liquids

 Do not place uncovered cups with hot liquid in the cup holder while the vehicle is in motion. If the hot liquid spills, you burn yourself.
 Such a burn to the driver could lead to loss of control of the vehicle.

 To reduce the risk of personal injury in the event of sudden stop or collision, do not place uncovered or unsecured bottles, glasses, cans, etc., in the cup holder while the vehicle is in motion.

A WARNING

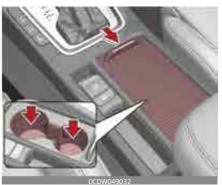
Keep cans or bottles out of direct sun light and do not put them in a vehicle that is heated up. It may explode.

* NOTICE

- Keep your drinks sealed while driving to prevent spilling your drink. If liquid spills, it may get into the vehicle's electrical/electronic system and damage electrical/ electronic parts.
- When cleaning spilled liquids, do not dry the cup holder at high temperature. This may damage the cup holder.

Cup holder





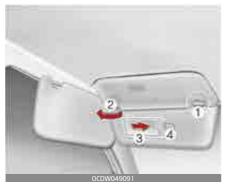
Rear (if equipped)



Cups or small beverage cans may be placed in the cup holders.

Sunvisor

Use the sunvisor to shield direct light through the front or side windows.



- To use the sunvisor, pull it downward.
- To use the sunvisor for the side window, pull it downward, unsnap it from the bracket (1) and swing it to the side (2).
- To use the vanity mirror, pull down the visor and slide the mirror cover (3).

The ticket holder (4) is provided for holding a tollgate ticket.

A WARNING

truct

For your safety, do not obstruct your vision when using the sunvisor.

Seat warmer (if equipped)

The seat warmer is provided to warm the front seats during cold weather.

Front seat



Rear seat



With the ignition switch in the ON position:

• Push either of the switches 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 switches in the "OFF" position.

Temperature control (Manual)

• Each time you press the switch, the temperature setting of the seat will change as follows: - Front seat

- Rear seat

```
OFF → HIGH())→ LOW())
```

• The seat warmer defaults to the OFF position whenever the ignition switch is turned on.

Temperature control (Automatic)

The seat warmer starts to automatically control the seat temperature in order to prevent low-temperature burns after being manually turned ON.

OFF → HIGH(
$$\textcircled{i}$$
) → MIDDLE(\textcircled{i}) → LOW(\textcircled{i})
 \downarrow → \uparrow 30min 60mim

You may manually press the button to increase the seat temperature. However, it soon returns to the automatic mode again.

- When pressing the switch for more than 1.5 seconds with the seat warmer operating, the seat warmer will turn OFF.
- The seat warmer defaults to the OFF position whenever the ENGINE START/STOP button is in the ON position.

* NOTICE

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

▲ CAUTION

- When cleaning the seats, do not use an organic solvent such as paint thinner, benzene, alcohol and gasoline. Doing so may damage the surface of the heater or seats.
- To prevent overheating the seat warmer, do not place anything on the seats that insulates 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 airventilation system.

WARNING

Seat warmer burns

Passengers should use extreme caution when using seat warmers due to the possibility of excess heating or burns. The seat warmer may cause burns even at low temperatures, especially if used for long periods of time. In particular, the driver must exercise extreme care for the following types of passengers:

- 1. Infants, children, elderly or handicapped 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, etc.)

Seat cooler (Air ventilation seat) (if equipped)

The temperature setting of the seat changes according to the switch position.



Each time you press the button, the airflow will change as follows:

• The air ventilation defaults to the OFF position whenever the ignition switch is turned on.

A CAUTION

When cleaning the seats, do not use an organic solvent such as paint thinner, benzene, alcohol and gasoline. Doing so may damage the surface of the heater or seats.

Power outlet





OCDW049037

Luggage compartment (if equipped)



Wagon/CUV (if equipped)



The power outlet is designed to provide power for mobile telephones or other devices designed to operate with vehicle electrical systems. The devices should draw less than 10 amps with the engine running.

• Use the power outlet only when the engine is running and remove the accessory plug after use. Using the accessory plug for prolonged periods of time with the engine off could cause the battery to discharge.

- Only use 12V electric accessories which are less than 10A in electric capacity.
- Adjust the air-conditioner or heater to the lowest operating level when using the power outlet.
- Close the cover when not in use.
- Some electronic devices can cause electronic interference when plugged into a vehicle's power outlet. These devices may cause excessive audio static and malfunctions in other electronic systems or devices used in your vehicle
- Using electrical products which exceed the limited capacity might cause heating to the power outlet and wiring that could lead to an electrical breakdown.
- Always make sure the electrical part is firmly plugged into the power outlet. Incomplete plugging may cause electrical breakdown.
- Electrical products with a built-in • battery might cause current flow, which could lead to malfunction of the electric/electronic device in your vehicle. Only use electrical products which include reverse current prevention.

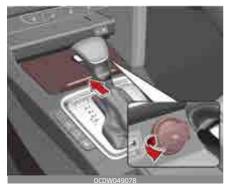
WARNING

Do not put a finger or a foreign element (pin, etc.) into a power

outlet and do not touch with a wet hand. You may get an electric shock.

USB charger (if equipped)

The USB car charger allows drivers to charge their digital devices like smartphone, and PC tablets.



Connect the cable to the USB port, charging will begin.

The USB car charger is available with either the ACC state or the ignition on. But we recommend you to connect the USB port and digital devices with the engine starting. See the display screen of the device to check its charging process completion. Your smartphone or tablet PC could get heated up while charging.

This is no reason to worry, as it doesn't impact life or functions of the device. For the safety reason, charging can be stopped if the battery gets heated up to a certain point of temperature that the devices can be negatively affected. Charging some digital devices is not available or requires special dedicated adapters if their charging methods don't fit the way the USB car charger works.

Quick Charge 2.0 is available on the smartphone or the table PC quipped with fast charging capabilities. The applicable is as follows:

(https://www.qualcomm.com/ documents/quick-charge-devicelist)

The smartphone or PC tablet without fast charging is charged at a regular speed.

Rated output:

Digital devices with fast charging:

- 9.0 V, 1.67 A

Digital devices with normal charging:

- 5.0 V, 2.1 A

A CAUTION

- Used the USB car charger with the ignition on. Otherwise, Vehicle battery can be discharged.
- Use the official USB cable of the manufacturer of the digital device to be charged.
- Make sure that any foreign object, drinks, and water do not come into contact with the USB car charger. Water or foreign object can damage the USB charger.

- Do not use the device those current consumption exceeds 2.1 A.
- Do not connect an electrical device that generates excessive electromagnetic noise to the USB car port. If you do so, noise can be caused or vehicle electronic devices can be interrupted while audio or AV is on.
- If the charger is connected incorrectly, it can cause serious damage on the devices.
 Please note that damages due to incorrect usage are not covered by warranty service.

Wireless smart phone charging system (if equipped)

A wireless smart phone charging system located in front of the center console.



Firmly close all doors, and turn the ignition to ACC or IGN ON. To start wireless charging, place the smart phone equipped with wireless charging function on the wireless charging pad.

For best wireless charging results, place the smart phone on the center of the charging pad.

The wireless charging system is designed for one smart phone equipped with QI per single usage only. Please refer to the smart phone accessory cover or the smart phone manufacturer homepage to check whether your smart phone supports QI function.

WARNING

If any metallic object such as coins is located between the wireless charging system and the smart phone, the charging may be disrupted. Also, the metallic object may heat up.

Wireless smart phone charging

- 1. Remove any object on the smart phone charging pad including the smart key. If there is any foreign object on the pad other than a smart phone, the wireless charging function may not operate properly.
- 2. Place the smart phone on the center of the wireless charging pad.
- 3. The indicator light will change to orange once 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 by selecting the USM on the instrument cluster. (Please refer to "Instrument cluster" on page 4-59).

If the wireless charging does not work, gently move your smart phone around the pad until the charging indicator light turns yellow. Depending on the smart phone, the charging indicator light may not turn green even after the charging is complete.

If the wireless charging is not functioning properly, the orange light will blink and flash for ten seconds then turn off. In such cases, remove the smart phone from the pad and replace it on the pad again, or double check the charging status.

If you leave the smart phone on the charging pad when the vehicle ignition is in OFF, the vehicle will alert you through warning messages and sound (applicable for vehicles with voice guidance function) after the 'Good bye' function on the instrument cluster ends.

A CAUTION

 Securely close the tray cover when using the wireless smart phone charge function. Otherwise, some liquid held by the cup holder may flow onto the wireless charging pad during sudden stops.

- Close the tray cover when the smart phone is placed in it at all times. If the vehicle is in motion without the tray cover closed, it is more likely that the driver may use the smart phone. The use of smart phones while driving may lead to possible injuries and accidents.
- If it is not possible to close the tray cover due to the size of the smart phone, do not use the wireless smart phone charging function at all.
- When the tray cover is broken, do not use the wireless charging function before the tray cover is repaired.
- 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.
- If there is any metallic object between the smart phone and the wireless charging pad, immediately remove the smart phone. Remove the metallic object after it has completely cooled down.
- The wireless charging may not function properly when there is

a heavy accessory cover on the smart phone.

- The wireless charging will stop when using the wireless smart key search function to prevent radio wave disruption.
- The wireless charging will stop when the smart key is moved out of the vehicle with the ignition in ON.
- The wireless charging will stop when any of the doors is opened (applicable for vehicles equipped with smart keys).
- The wireless charging will stop when the vehicle is turned OFF.
- The wireless charging will stop when the smart phone is not in complete contact with the wireless charging pad.
- Items equipped with magnetic components such as credit card, telephone card, bankbook, any transportation ticket and such may become damaged during wireless charging.
- Place the smart phone on the center of the charge pad for best results. The smart phone may not charge when placed near the rim of the charging pad. When the smart phone does get charged, it may heat up excessively.
- For smart phones without builtin wireless charging system, an appropriate accessory has to be equipped.

- Smart phones of some manufacturers may display messages on weak current. This is due to the particular characteristic of the smart phone and does not imply a malfunction on wireless charging function.
- The indicator light of some manufacturer's smart phones may still be yellow after the smart phone is fully charged. This is due to the particular characteristic of the smart phone and not a malfunction of the wireless charging.
- When any smart phone without a wireless charging function or a metallic object is placed on the charging pad, a small noise may sound. This small sound is due to the vehicle discerning compatibility of the object placed on the charging pad. It does not affect your vehicle or the smart phone in any way.

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Floor mat anchor(s) (if equipped)



When using a floor mat on the front floor carpet, make sure it attaches to the floor mat anchor(s) in your vehicle. This keeps the floor mat from sliding forward.

When installing floor mat

- 1. Align fixing structure (hook) of floor carpet and hook ring of floor mat.
- 2. Insert the floor mat hook ring to the hook of floor carpet.
- 3. When inserting, first, push under part of the hook ring of floor mat matching with the hook of floor carpet, and push upper part of hook ring, so that hook ring can be properly inserted.

When uninstalling floor mat

Grab the front part of the floor mat and pull the floor mat upward.

WARNING

The following must be observed when installing ANY floor mat to the vehicle.

- Ensure that the floor mats are securely attached to the vehicle's floor mat anchor(s) before driving the vehicle.
- Do not use ANY floor mat that cannot be firmly attached to the vehicle's floor mat anchors.
- Do not stack floor mats on top of one another (e.g. all-weather rubber mat on top of a carpeted floor mat). Only a single floor mat should be installed in each position.
- When uninstalling floor mat, be sure to uninstall it with designated direction described with arrow at the previous picture. If different direction of force is applied to the hook, the hook can be broken.

IMPORTANT - Your vehicle was manufactured with driver's side floor mat anchors that are designed to securely hold the floor mat in place. To avoid any interference with pedal operation, Kia recommends that only Kia floor mats that were designed for use in your vehicle should be installed.

Interior features

Clothes hanger (if equipped)





To use the hanger:

• Pull down the upper portion of hanger.

A CAUTION

Do not hang heavy clothes, since those may damage the hook.

A WARNING

Do not hang other objects such as hangers or hard objects except clothes. Also, do not put heavy, sharp or breakable objects in the clothe pockets. In an accident or when the curtain air bag is inflated, it may cause vehicle damage or personal injury.

Cargo area cover (if equipped)

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



The cargo area cover will be lifted when the tailgate is opened.

 Disconnect the strap (1) from holder if you want to return the cover to original position. To remove the cargo area cover completely, lift the cover to a 40degree angle and pull it out to the full (2).

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For installation of the cover, reverse the removal procedure.

* NOTICE

- When you return the cargo area cover to its original position, hold the cover and lower it.
- Do not operate the vehicle with the cover removed. It may damage to the cover.
- The cargo area cover may be lifted when the tailgate is opened.
 Ensure that the luggage on the cover is moved to a safe place.
- Since the cargo area cover may be damaged or malformed, do not apply excessive force to the cover or do not put the heavy loads on it.

A WARNING

- Do not place objects on the cargo area cover while driving. Such objects may be thrown about inside the vehicle and possibly injure vehicle occupants during an accident or when braking.
- Never allow anyone to ride in the luggage compartment. It is designed for luggage only.
- Maintain the balance of the vehicle and locate the weight as far forward as possible.

Shopping bag holder



A CAUTION

- Do not hang a bag weighing more than 3 kg (7 lbs.). 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.

Barrier net (if equipped)

When you load cargo on the rear seat or rear cargo area, you must install the barrier net behind the front seatback or rear seatback.



It is designed to help protect the heads of the occupants by preventing objects from flying forward in frontal collisions.

There are two hook holders on both side of the headliner over the headrests for upper side fixation.

To use the barrier net





- 1. Insert the hook into the large hole until it reaches the very top.
- 2. Then secure it by sliding it into the small hole.
- 3. Hold the hooked side and then with the other hand, hook the other side of the net.
- 4. Fix the lower straps both side of the net to the hooks on the floor.

A CAUTION

Be careful not the scratch the side panel when inserting the hook into the hole.

A WARNING

- Do not allow passengers to travel in the cargo area behind the barrier net.
- Do not allow passengers to travel in the rear center seat when the barrier net is installed behind the rear seats. The barrier net may interfere when using the rear center safety belt.

4

- Do not load cargo in the area higher than the barrier net's upper end.
- Do not load heavy cargo in the area higher than the seatback to avoid accidents even if the barrier net is installed.
- Do not load cargo which has sharp edges that can pass through the barrier net.
- Do not apply excessive force to the barrier net by hanging on to the net or by suspending heavy cargo and so on.

When the barrier net is not in use:

- 1. Remove the hook by pulling it through the large holes.
- 2. Remove the lower straps on both sides of the net from the hooks on the floor.

* NOTICE

The cargo security screen must be removed first to remove the barrier net.

Cargo security screen (if equipped)

Use the cargo security screen to hide items stored in the cargo area.



OCDW049400

To use the cargo security screen:

• Pull the handle backward and insert the edges into the slots.

When the cargo security screen is not in use, perform the following steps.



• Pull up the luggage cover using the handle (1).

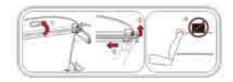


• Pull up the triangle-shaped cover (2).



• Place the cargo security screen on the lower part of the cargo area.

To remove the cargo security screen



OCDW049418

- 1. At the time of detachment, first slide the cargo screen handle toward the seat.
- 2. As in the case of install, push the housing cover in the direction of the arrow, compressing the spring.
- 3. And then remove it in the upward direction.

WARNING

- Do not place objects on the cargo security screen. Such objects may be thrown about inside the vehicle and possibly injure passengers during an accident or when braking.
- Never allow anyone to ride in the luggage compartment. It is designed for luggage only.
- Maintain the balance of the vehicle and locate the weight as far forward as possible.

• Do not apply excessive force in upper side of luggage screen. It can cause damage.

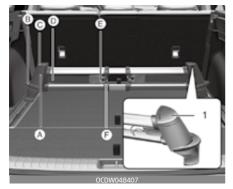
▲ CAUTION

creen ma

Since the cargo security screen may be damaged or deformed, do not put the luggage on it when it is used.

Luggage rail system (if equipped)

The luggage rail system may prevent the luggage from sliding around in the luggage compartment.



Build in segmentation bar

- Put both pillars (A) from the segmentation bar in the openings from the rail.
- To move the segmentation bar, put your hand on the side of the pillar and push down the lever arm (B).
- Make sure the pillars click into place.

- To release the belt, turn the upper element (C) to the left or right until it clicks.
- Now you can pull the belt (D) and secure your luggage by putting the belt around the luggage and put the hook (E) into the middle of the segmentation bar (F).
- For bulky luggage, you can hook both hooks into each other.
- To make sure the belt locks, put the upper element (C) back into the lock position (1).

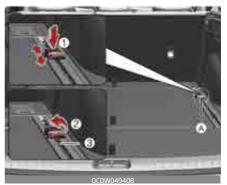


• The segmentation bar must be mounted and demounted with both pillars simultaneously.

CAUTION

Max. load: 30 kg with one belt 40 kg with two belts

Applying the shackle on the guide rail



 Put the shackle (A) in the position where the shackle is put in the rail.

- To move the shackle, press the button (1) and move the shackle along the rail.
- Make sure the shackle is clicked into place.
- To fix the luggage, pull up the hook (2) in direction to the middle of the cargo bay.
- Now you can mount e.g. belt to fix the luggage in the hook.
- The shackle cannot be used in the position where the shackle is put in and out of the rail (3).

A CAUTION

Tensile force : max. 30 kgf. for 1 shackle

Exterior features

Roof rack (if equipped)

If the vehicle has a roof rack, you can load cargo on top of your vehicle.



Crossbars and fixing components needed to install the roof rack on your vehicle may be obtained from an authorized Kia dealer/service partner or other qualified shop.

*** NOTICE**

- The crossbars (if equipped) should be placed in the proper load carrying positions prior to placing items onto the roof rack.
- If the vehicle is equipped with a sunroof, be sure not to position cargo onto the roof rack in such a way that it could interfere with sunroof operation.
- When the roof rack is not being used to carry cargo, the crossbars may need to be repositioned if wind noise is detected.

A CAUTION

- When carrying cargo on the roof rack, take the necessary precautions to make sure the cargo does not damage the roof of the vehicle.
- When carrying large objects on the roof rack, make sure they do not exceed the overall roof length or width.
- When you are carrying cargo on the roof rack, do not operate the sunroof. (if equipped)

A WARNING

 The following specification is the maximum weight that can be loaded onto the roof rack.
 Distribute the load as evenly as possible across the crossbars (if equipped) and roof rack and secure the load firmly.

100 kg (220 lbs.) EVENLY DISTRIBUTED

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

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

- Always drive slowly and turn corners carefully when carrying items on the roof rack. Severe wind updrafts, caused by passing vehicles or natural causes, can cause sudden upward pressure on items loaded on the roof rack. This is especially true when carrying large, flat items such as wood panels or mattresses. This could cause the items to fall off the roof rack and cause damage to your vehicle or others around you.
- To prevent damage or loss of cargo while driving, check frequently before or while driving to make sure the items on the roof rack are securely fastened.

Infotainment system 5

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5 Infotainment system

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INFOTAINMENT SYSTEM

Type B

Audio system

* NOTICE

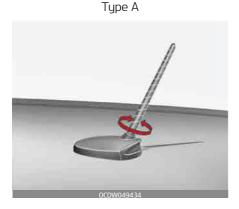
If you install an after market HID head lamp, your vehicle's audio and electronic device may malfunction.

* If your vehicle is equipped with AVN(Audio, Video and Navigation) system, refer to a separately supplied manual for detailed information.

Antenna

Pole type antenna

Your vehicle uses a roof antenna to receive both AM and FM broadcast signals. This antenna pole is removable.





- To remove the antenna pole, turn it counterclockwise.
- To install the antenna, turn it clockwise.

Shark fin antenna (if equipped)

The shark fin antenna will receive the transmit data.

A CAUTION

Pole type antenna

- Before entering a place with a low height clearance or a car wash, remove the antenna pole by rotating it counterclockwise. If not, the antenna may be damaged.
- When reinstalling your antenna pole, it is important that it is fully tightened and adjusted to the upright position to ensure proper reception. But it could be removed when parking the vehicle or when loading cargo on the roof rack.
- When cargo is loaded on the roof rack, do not place the cargo near

the antenna pole to ensure proper reception.

USB port (if equipped)

You can use the USB port to plug in a USB device or iPod®.



* NOTICE

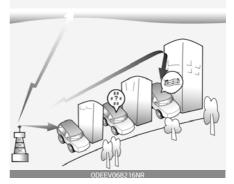


When using a portable audio device connected to the power outlet, noise may occur during playback. If this happens, use the power source of the portable audio device.

* iPod® is a trademark of Apple Inc.

How vehicle audio works

FM reception

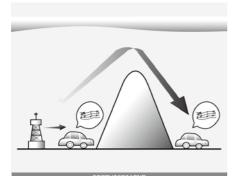


AM and FM radio signals are broadcast from transmitter towers located around your city. They are intercepted by the radio antenna on your vehicle. This signal is then received by the radio and sent to your vehicle speakers.

When a strong radio signal has reached your vehicle, the precise engineering of your audio system ensures the best possible quality reproduction. However, in some cases the signal coming to your vehicle may not be strong and clear.

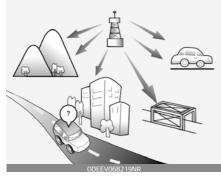
This can be due to factors, such as the distance from the radio station, closeness of other strong radio stations or the presence of buildings, bridges or other large obstructions in the area.

AM reception



AM broadcasts can be received at greater distances than FM broadcasts. This is because AM radio waves are transmitted at low frequencies. These long, low frequency radio waves can follow the curvature of the earth rather than travelling straight out into the atmosphere. In addition, they curve around obstructions so that they can provide better signal coverage.

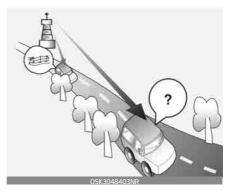
FM radio station



FM broadcasts are transmitted at high frequencies and do not bend to

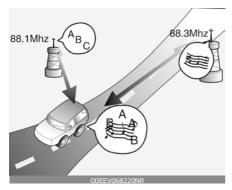
follow the earth's surface. Because of this, FM broadcasts generally begin to fade at short distances from the station. Also, FM signals are easily affected by buildings, mountains, or other obstructions. These can result in certain listening conditions which might lead you to believe a problem exists with your radio. The following conditions are normal and do not indicate radio trouble:

 Fading – As your vehicle moves away from the radio station, the signal will weaken and sound will begin to fade. When this occurs, we suggest that you select another stronger station.



 Flutter/Static - Weak FM signals or large obstructions between the transmitter and your radio can disturb the signal causing static or fluttering noises to occur. Reducing the treble level may lessen this effect until the disturbance clears.

5



- Station Swapping As a FM signal weakens, another more powerful signal near the same frequency may begin to play. This is because your radio is designed to lock onto the clearest signal. If this occurs, select another station with a stronger signal.
- Multi-Path Cancellation Radio signals being received from several directions can cause distortion or fluttering. This can be caused by a direct and reflected signal from the same station, or by signals from two stations with close frequencies. If this occurs, select another station until the condition has passed.

Using a cellular phone or a twoway radio

When a cellular phone is used inside the vehicle, noise may be produced from the audio system. This does not mean that something is wrong with the audio equipment. In such a case, use the cellular phone at a place as far as possible from the audio equipment.

A CAUTION

When using a communication system such as a cellular phone or a radio set inside the vehicle, a separate external antenna must be fitted. When a cellular phone or a radio set is used with an internal antenna alone, it may interfere with the vehicle's electrical system and adversely affect safe operation of the vehicle.

WARNING

Do not use a cellular phone while driving. Stop at a safe location to use a cellular phone.

Audio (Without Touch Screen)

System layout - control panel

With Bluetooth® Wireless Technology



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

1. SEEK/TRACK button

- Change the station/track/file.
- While listening to the radio, press and hold to search for a station.
- While playing media, press and hold to rewind or fast forward (except for the Bluetooth audio mode).

2. RADIO button

• Press to turn on the radio. While listening to the radio, press to change the radio mode.

3. MEDIA button

 Press to play content from a media storage device. Press repeatedly to switch modes between USB (iPod) and Bluetooth audio. • If you have multiple media storage devices, select one from the media selection window.

4. PHONE button

- Press to start connecting a mobile phone via Bluetooth.
- After a Bluetooth phone connection is made, press to access the Bluetooth phone menu.

5. POWER button/VOL knob

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

6. PRESET button

• While listening to the radio, press to move to previous or next page of the preset list.

5

7



With Bluetooth® Wireless Technology

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

7. SETUP button/CLOCK button

- Press to access the setup screen.
- Press and hold to access the time setup screen.

8. MENU button

• Press to access the menu screen for the current mode.

9. BACK button

• Press to return to the previous screen.

10. Reset button

- 11. TUNE knob/FILE knob/ENTER button
 - While listening to the radio, turn to adjust the frequency.
 - While playing media, turn to search for a track/file (except for the Bluetooth audio mode).
 - During a search, press to select the current track/file.

12. Number buttons (1-6)

• While listening to the radio, press to listen to a saved radio station.

- While listening to the radio, press and hold to save the current radio station to the preset.
- Press the corresponding number button to select an item.

System layout - steering wheel remote control

Bluetooth® equipped model



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

1. MODE button

• Press to switch between radio and media modes.

2. Volume lever

• Push up or down to adjust the volume.

3. Up/Down lever

- Change the station/track/file.
- While listening to the radio, push to listen to the previous/next saved radio station.
- While listening to the radio, push and hold to search for a station.
- While playing media, push and hold to rewind or fast forward (except for the Bluetooth audio mode).

4. MUTE button

- Press to mute or unmute the system.
- During a call, press to mute or unmute the microphone.

 While playing media, press to pause or resume playback (except for the iPod mode).

5. Call/Answer button

- Press to start connecting a mobile phone via Bluetooth.
- After a Bluetooth phone connection is made, access the Bluetooth phone screen. Press and hold to dial the most recent phone number. When a call comes in, press to answer the call.
- During a call, press to switch between the active call and the held call. Press and hold to switch the call between the system and the mobile phone.

6. Call end button

About driving

- Do not operate the system while driving. Driving while being distracted may result in a loss of vehicle control, potentially leading to an accident, severe personal injury, or death. The driver's primary responsibility is the safe and legal operation of a vehicle, and any handheld devices, equipment, or vehicle systems which divert the driver's attention from this responsibility should never be used during operation of the vehicle.
- Avoid watching the screen while driving. Driving while distracted

5

may lead to a traffic accident. Stop your vehicle in a safe location before using functions that require multiple operations.

- Stop your vehicle first before using your mobile phone. Using a mobile phone while driving may lead to a traffic accident. If necessary, use the Bluetooth Handsfree feature to make calls and keep the call as short as possible.
- Keep the volume low enough to hear external sounds. Driving without the ability to hear external sounds may lead to a traffic accident. Listening to a loud volume for a long time may cause hearing damage.

• Do not touch the antenna during thunder or lightning because such an act may cause electric shock.

* NOTICE

About operating the system

- Use the system with the engine running. Using the system for a long time when the engine is stopped may discharge the battery.
- Do not install unapproved products. Using unapproved products may cause an error while using the system. System errors caused by installing unapproved products are not covered under the warranty.

A WARNING

About handling the system

- Do not disassemble or modify the system. Doing so may result in an accident, fire, or electric shock.
- Do not allow liquids or foreign substances to enter the system.
 Liquids or foreign substances may cause noxious fumes, a fire, or a system malfunction.
- Stop using the system if it malfunctions, such as no audio output or display. If you continue using the system when it is malfunctioning, it may lead to a fire, electric shock, or system failure.

* NOTICE

About handling the system

- Do not apply excessive force to the system. Excessive pressure on the screen may damage the LCD panel or the touch panel.
- When cleaning the screen or button panel, make sure to stop the engine and use a soft, dry cloth. Wiping the screen or buttons with a rough cloth or using solvents (alcohol, benzene, paint thinner, etc.) may scratch or chemically damage the surface.
- If you attach a liquid-type air freshener to the fan louvre, the

surface of the louvre may become deformed due to the flowing air.

 If you want to change the position of the installed device, please inquire with your place of purchase or service maintenance centre. Technical expertise is required to install or disassemble the device.

* NOTICE

- If you experience any problems with the system, contact your place of purchase or dealer.
- Placing the infotainment system within an electromagnetic environment may result in noise interference.

* NOTICE

Manufacturer: HYUNDAI MOBIS Co., Ltd. 203, Teheran-ro, Gangnam-gu, Seoul, 06141, Korea Tel: +82-31-260-2707.

Turning the system on or off

To turn on the system, start the engine.

 If you do not want to use the system while driving, you can turn off the system by pressing the [POWER] button on the control panel. To use the system again, press the [**POWER**] button again.

After you have turned off the engine, the system will automatically turn off after a while or as soon as you open the driver's door.

- Depending on the vehicle model or specifications, the system may turn off as soon as you turn off the engine.
- When you turn back on the system, the previous mode and settings will remain intact.

WARNING

- Some functions may be disabled for safety reasons while the vehicle is moving. They work only when the vehicle stops. Park your vehicle in a safe location before using any of them.
- Stop using the system if it malfunctions, such as no audio output or display. If you continue using the system when it is malfunctioning, it may lead to a fire, electric shock, or system failure.

* NOTICE

You can turn on the system when the key ignition switch is placed in the "ACC" or "ON' position. Using the system for an extended period without the engine running drains the battery. If you plan on using the 5

system for a long time, start the engine.

Turning the display on or off

To prevent glare, you can turn off the screen. The screen can be turned off only while the system is on.

- 1. On the control panel, press the [SETUP/CLOCK] button.
- 2. On the control panel, press the [6] button to select **Display Off**.
 - To turn the screen back on, press any of the control panel buttons.

Getting to know the basic operations

You can select an item or adjust the settings by using the number buttons and the [**TUNE**] knob on the control panel.

Selecting an item

Numbered items



• Press the corresponding number button.

Numberless items



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

Adjusting the settings



- Turn the [**TUNE**] knob to adjust the value, and then press the knob to save changes.
- Turn the [**TUNE**] knob to the right to increase the value and turn

the [**TUNE**] knob to the left to decrease the value.

Radio

Turning on the radio

• On the control panel, press the [**RADIO**] button.

FM/AM Mode



1. Current radio mode

Radio

- 2. Radio station information
- 3. Preset list

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

- List: Display all available radio stations.
- Traffic Announcement (TA): Activate or deactivate traffic announcements. Announcements and programmes will be received automatically if available.
- **Scan**: The system searches for radio stations with strong radio signals and plays each radio station for about five seconds.
- **Sound Settings**: Customise the system sound settings.

DAB/FM Mode (With DAB)



- 1. Current radio mode
- 2. Radio station information
- 3. Preset list

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

- List: Display all available radio stations.
- Traffic Announcement (TA): Activate or deactivate traffic announcements. Announcements and programmes will be received automatically if available.
- **Region**: Enable or disable automatic switching between regional stations.
- **Sound Settings**: Customise the system sound settings.
- Scan: The system searches for radio stations with strong radio signals and plays each radio station for about five seconds.
- **Manual tune FM**: Tune the radio frequency manually.

Changing the radio mode

Alternatively, press the [**RADIO**] button on the control panel or the

[**MODE**] button on the steering wheel. Each time you press the button, the radio mode switches.

Scanning for available radio stations

You can listen to each radio station for a few seconds to test the reception and select the one you want.

- 1. From the radio screen, press the [**MENU**] button on the control panel.
- 2. Turn the [**TUNE**] knob to select **Scan**, and then press the knob.
 - The system searches for radio stations with strong radio signals and plays each radio station for about five seconds.
- 3. When you find the radio station you want to listen to, press the [**TUNE**] knob.
 - You can continue listening to the selected station.

Searching for radio stations

To search for the previous or next available radio station, press the $[\lor$ **SEEK/TRACK** \land] button on the control panel.

 You can also press and hold the [V SEEK/TRACK ^] button to search for frequencies quickly. When you release the button, a radio station with a strong signal is selected automatically. (if equipped) If you know the exact frequency of the radio station you want to listen to, turn the [**TUNE**] knob on the control panel to change the frequency.

Saving radio stations

You can save your favourite radio stations and listen to them by selecting them from the preset list.

- While listening to the radio, press the number button for an empty preset slot on the radio screen.
 - The radio station you are listening to will be added to the selected number.

* NOTICE

- You can save up to 36 radio stations.
- If the preset list is full, you can replace one of your favourite stations with the station you are listening to. On the control panel, press and hold the desired number button.

Listening to saved radio stations

- 1. Confirm the preset number for the radio station you want to listen to.
- 2. On the control panel, press the desired number button.
 - Alternatively, push the Up/Down lever on the steering wheel to change the station.

Media player

Using the media player

You can play music stored in various media storage devices, such as USB storage devices, smartphones, and iPods.

- 1. Connect a device to the USB port in your vehicle.
 - Playback may start immediately depending on the device that you connect to the system.
- 2. On the control panel, press the [MEDIA] button.
 - If you have multiple media storage devices, Press the [MEDIA] button again and press the corresponding number button to select the desired mode.

* NOTICE

 When you connect an Apple device, playback does not start automatically. To start the media player in the iPod mode, press the [MEDIA] button on the control panel.

- You can also change the mode by pressing the [MODE] button repeatedly on the steering wheel.
- Make sure to connect or disconnect external USB devices with the system power turned off.
- Depending on vehicle models and specifications, available buttons or the appearance and layout of

the USB ports in your vehicle may vary.

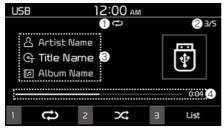
- Do not connect a smartphone or an MP3 device to the system via multiple methods such as USB and Bluetooth simultaneously. Doing so may cause a distorted noise or a system malfunction.
- When the equaliser function of the connected device and Equaliser settings of the system are both activated, the effects may interfere with each other and may lead to sound degradation or distortion. Deactivate the device's equaliser function if possible.
- Noise may occur when an Apple device is connected. When such devices are not being used, disconnect the device for storage.
- When the Apple device power is connected to the power jack, playing the external device may result in noise. In such cases, disconnect the power connection before use.

Using the USB mode

You can play media files stored in portable devices, such as USB storage devices and MP3 players. Check compatible USB storage devices and file specifications before using the USB mode.

Connect your USB device to the USB port in the vehicle.

- Playback starts immediately.
- If a USB device is already connected to the system, press the [MEDIA] button and press the [1] button to select USB from the media selection window.



- 1. Repeat play mode
- 2. Current file number and total number of files
- 3. Information about the song currently playing
- 4. Playback time and playback position

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

- **Information**: Display information about the song currently playing.
- **Sound Settings**: Customise the system sound settings.

Rewinding/Fast forwarding

- On the control panel, press and hold the [∨ SEEK/TRACK ∧] button.
 - You can also push and hold the Up/Down lever on the steering wheel.

Restarting the current playback

- On the control panel after the song has played for 2 seconds, press the [V SEEK/TRACK] button.
 - You can also push the Up/Down lever on the steering wheel.

Playing the previous or next song

- To play the previous song on the control panel within the first 2 seconds of the current song, press the [∨ SEEK/TRACK] button. To play the next song, press the [SEEK/TRACK ∧] button on the control panel.
 - If more than 2 seconds of playback have elapsed, press the [V SEEK/TRACK] button on the control panel twice to play the previous song.
 - You can also push the Up/Down lever on the steering wheel.

* NOTICE

- On the control panel, turn the [**FILE**] knob to find the desired song and press the knob within five seconds to play the file.
- If no control is detected within five seconds, the search is cancelled and the screen displays information about the song currently playing.

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Playing repeatedly

On the control panel, press the

 [1] button. The repeat play mode changes each time you press it.
 The corresponding mode icon will be displayed on the screen.

Playing in random order

On the control panel, press the

 [2] button. The shuffle play mode
 is activated or deactivated each
 time you press it. When you
 activate the shuffle mode, the
 corresponding mode icon will be
 displayed on the screen.

Searching for music files on a file list

- 1. On the control panel, press the **[3**] button to select **List**.
- 2. Turn the [**TUNE**] knob to select the desired category and file, and then press the knob to play the music file.

* NOTICE

- Start the engine of your vehicle before connecting a USB device to your system. Starting the engine with a USB device connected to the system may damage the USB device.
- Be careful of static electricity when connecting or disconnecting a USB device. A static discharge may cause a system malfunction.

- Be careful not to let your body or external objects contact the USB port. Doing so may cause an accident or a system malfunction.
- Do not connect and disconnect a USB connector repeatedly in a short time. Doing so may cause an error in the device or a system malfunction.
- Do not use a USB device for purposes other than playing files. Using USB accessories for charging or heating may cause poor performance or a system malfunction.

* NOTICE

- When connecting a USB storage device, do not use an extension cable. Connect it directly to the USB port. If you use a USB hub or an extension cable, the device may not be recognized.
- Fully insert a USB connector into the USB port. Failure to do so may cause a communication error.
- When you disconnect a USB storage device, a distorted noise may occur.
- The system can play only files encoded in a standard format.
- The following types of USB devices may not be recognised or work correctly:
 - Encrypted MP3 players
 - USB devices not recognised as removable disks

- A USB device may not be recognised depending on its condition.
- Some USB devices may be incompatible with your system.
- Depending on the USB device's type, capacity, or the format of files, USB recognition time may be longer.
- Depending on the specification, some USB devices may not support charging via a USB connection.
- Image and video playback are not supported.

Using the iPod mode

You can listen to music stored on your Apple devices, such as an iPod or an iPhone.

- 1. Connect your Apple device to the USB port in your vehicle using the cable supplied with the Apple device.
 - When connected, the device will begin charging. Music playback will not start automatically.
- 2. On the control panel, press the [MEDIA] button.
 - If multiple devices are connected to the system, press the [MEDIA] button and press the [1] button to select iPod from the media selection window.



- 1. Repeat play mode
- 2. Current file number and total number of files
- 3. Information about the song currently playing
- 4. Playback time and playback position

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

- **Information**: Display information about the song currently playing.
- **Sound Settings**: Customise the system sound settings.

Rewinding/Fast forwarding

- On the control panel, press and hold the [∨ SEEK/TRACK ∧] button.
 - You can also push and hold the Up/Down lever on the steering wheel.

Restarting the current playback

- On the control panel after the song has played for 2 seconds, press the [V SEEK/TRACK] button.
 - You can also push the Up/Down lever on the steering wheel.

5

Playing the previous or next song

- To play the previous song on the control panel within the first 2 seconds of the current song, press the [V SEEK/TRACK] button. To play the next song, press the [SEEK/TRACK ^] button on the control panel.
 - If more than 2 seconds of playback have elapsed, press the [V SEEK/TRACK] button on the control panel twice to play the previous song.
 - You can also push the Up/Down lever on the steering wheel.

* NOTICE

- On the control panel, turn the [**FILE**] knob to find the desired song and press the knob within five seconds to play the file.
- If no control is detected within five seconds, the search is cancelled and the screen displays information about the song currently playing.

Playing repeatedly

On the control panel, press the

 [1] button. The repeat play mode changes each time you press it.
 The corresponding mode icon will be displayed on the screen.

Playing in random order

On the control panel, press the

 [2] button. The shuffle play mode
 is activated or deactivated each
 time you press it. When you
 activate the shuffle mode, the
 corresponding mode icon will be
 displayed on the screen.

Searching for music files on a file list

- 1. On the control panel, press the **[3**] button to select **List**.
- Turn the [TUNE] knob to select the desired category and file, and then press the knob to play the music file.

* NOTICE

- Be sure to start the engine before you connect devices to the system. The device may be damaged if the engine is started while the device connected.
- Do not connect and disconnect a USB connector repeatedly in a short time. Doing so may cause an error in the device or a system malfunction.

Notes on connecting Apple devices

• Ensure that the iOS and firmware of your device is up-to-date before connecting it to your system. Outdated devices may cause a system error.

- If your device's battery is low, the device may not be recognised.
 Check the battery level and, if necessary, charge the battery before connecting the device to your system.
- Use an Apple-approved cable. Using an unapproved cable may cause a distorted noise or an error during playback.
- Use a cable shorter than 1 metre in length, such as the one originally supplied with a new Apple device. Longer cables may lead to the infotainment system not recognising the Apple device.
- Fully insert a USB connector into the USB port. Failure to do so may cause a communication error.
- If you connect your device to the system while playback is in progress on the device, you may hear a high pitch sound just after the connection. Connect the device after stopping or pausing playback.
- Connecting your device during a download or synchronizing with iTunes may cause an error. Connect the device after the download or synchronization is complete.
- If you connect an iPod nano (except for the 6th generation) or an iPod classic, the brand logo will be displayed on the device screen. For an iPhone and an iPod touch, the logo will not be displayed.

Notes on playing Apple devices

- Depending on the model, your device may not be recognised due to unsupported communication protocols.
- The order of the songs displayed or played on the system may differ from the order of the songs stored in your device.
- Depending on the music player application you are using, information displayed on the system may differ.
- In an iPhone, the audio streaming function and iPod mode control may conflict. If an error occurs, disconnect and reconnect the USB cable.
- When using an iPhone or an iPod touch, do not control the device while it is connected to your system. An error may occur.
- If you make or receive a call during playback via an iPhone, the music may remain paused after you end the call. If you do not hear the music after ending a call, check the device to see if the music is paused.
- Do not duplicate a song in multiple folders. One song saved in multiple folders may cause an error with search and playback functions.
- If you perform a media control function, such as stop or repeat, just before a song ends, the song information displayed on the screen may not match the song

5

currently playing. This is not a system error. Restart the iPod mode on the system or pause and resume playback on your device.

- Skipping or improper operations may occur depending on the characteristics of your Apple device.
- If the Apple device malfunctions due to an Apple device defect, reset the Apple device and try again. (To learn more, refer to your Apple device manual.)

Bluetooth

Connecting Bluetooth devices

Bluetooth is a short-range wireless networking technology. Via Bluetooth, you can connect nearby mobile devices wirelessly to send and receive data between connected devices. This enables you to use your devices effectively.

To use Bluetooth, you must first connect a Bluetooth-enabled device to your system, such as a mobile phone or an MP3 player. Ensure that the device you want to connect supports Bluetooth.

A WARNING

Park your vehicle in a safe location before connecting Bluetooth devices. Distracted driving can cause a traffic accident and lead to personal injury or death.

* NOTICE

- On your system, you can use only Bluetooth Handsfree and Audio features. Connect a mobile device that supports both features.
- Some Bluetooth devices may cause malfunctions to the infotainment system or make interference noises. In this case, storing the device in a different location may resolve the problem.

- Depending on the connected Bluetooth device or mobile phone, some functions may not be supported. For Bluetooth supporting devices details and compatibility, visit http:// kiaeurope.nextgen-technology. net/
- If the system is not stable due to a vehicle-Bluetooth device communication error, delete the paired devices and connect the Bluetooth devices again.
- If Bluetooth connection is not stable, follow these steps to try again.
 - 1. Deactivate Bluetooth and reactivate it on the device. Then, reconnect the device.
 - 2. Turn the device off and on. Then, reconnect it.
 - 3. Remove the battery from the device and reinstall it. Then, turn the device on and reconnect it.
 - 4. Unregister the Bluetooth pairing on both the system and the device and then re-register and connect them.

Pairing devices with your system

For Bluetooth connections, first pair your device with your system to add it to the system's list of Bluetooth devices. You can register up to five devices.

- From the control panel, press the [SETUP/CLOCK] button, and then select Bluetooth ► Connections.
 - If you are pairing a device with your system for the first time, you can also press the [PHONE] button on the control panel or the Call/Answer button on the steering wheel.
- 2. On the Bluetooth device you want to connect, activate Bluetooth, search for your vehicle's system, and then select it.
 - Check the system's Bluetooth name, which is displayed in the new registration pop-up window on the system screen.



- 3. Enter or confirm the passkey to confirm the connection.
 - If the passkey input screen is displayed on the Bluetooth device screen, enter the passkey '0000' which is displayed on the system screen.
 - If the 6-digit passkey is displayed on the Bluetooth device screen, ensure that the Bluetooth passkey displayed on the Bluetooth device is the same as the passkey on the

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system screen and confirm the connection from the device.

- 4. Choose whether or not to connect the Bluetooth device to your system prior to other devices.
 - If you grant priority to the Bluetooth device, it will be connected automatically to the system when you turn on the system.

* NOTICE

- The screen image in this manual is an example. Check your system screen for the exact vehicle name and Bluetooth device name.
- The default passkey is '0000'.
- It may take a while for the system to connect with the device after you permit the system to access the device. When a connection is made, the Bluetooth status icon appears at the top of the screen.
- You can change the permission settings via the mobile phone's Bluetooth settings menu. For more information, refer to your mobile phone's user guide.
- To register a new device, repeat steps 1 to 4.
- When a device is connected to the system via Bluetooth, you cannot pair another device.
- If you use the automatic Bluetooth connection function, a call may be switched to the vehicle's Handsfree when you are taking on the phone near

the vehicle while the vehicle's engine is on. If you do not want the system to connect with the device automatically, deactivate Bluetooth on your device.

• When a device is connected to the system via Bluetooth, the device's battery may discharge faster.

Connecting a paired device

To use a Bluetooth device on your system, connect the paired device to the system. Your system can connect with only one device at a time.

- From the control panel, press the [SETUP/CLOCK] button, and then select Bluetooth ► Connections.
 - If there is no connected device, press the [PHONE] button on the control panel or the Call/ Answer button on the steering wheel.
- 2. Turn the [**TUNE**] knob to select the device to connect, and then press the knob.
 - If another device is already connected to your system, disconnect it. Select the connected device to disconnect.
- 3. Turn the [**TUNE**] knob to select **Connect**, and then press the knob.

* NOTICE

 If a connection ends because a device is out of the connection range or a device error occurs, the connection will be restored automatically when the device enters the connection range or when the error is cleared.

- The Bluetooth connection is unavailable when the device's Bluetooth function is turned off. Be sure to turn on the device's Bluetooth function.
- Depending on auto connection priority, connection to a device may take time.

Disconnecting a device

If you want to stop using a Bluetooth device or connect another device, disconnect your currently connected device.

- From the control panel, press the [SETUP/CLOCK] button, and then select Bluetooth ► Connections.
- 2. Turn the [**TUNE**] knob to select the device to disconnect, and then press the knob.
- 3. Turn the [**TUNE**] knob to select **Disconnect**, and then press the knob.

Deleting paired devices

If you no longer want a Bluetooth device paired or if you want to connect a new device when the Bluetooth device list is full, delete paired devices.

- From the control panel, press the [SETUP/CLOCK] button, and then select Bluetooth ► Connections.
- 2. Turn the [**TUNE**] knob to select the device to delete, and then press the knob.
- 3. Turn the [TUNE] knob to select **Delete**, and then press the knob.

* NOTICE

- When you delete a paired device, the Call history and Contacts stored in the system are also deleted.
- To re-use a deleted device, you must pair the device again.

Using a Bluetooth audio device

You can listen to music stored in the connected Bluetooth audio device via your vehicle's speakers.

- On the control panel, press the [MEDIA] button.
 - If you have multiple media storage devices, press the [MEDIA] button and press the [2] button to select BT Audio from the media selection window.



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2. Information about the song currently playing

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

- **Connections**: Set up the Bluetooth connection.
- **Sound Settings**: Customise the system sound settings.

Pausing/Resuming playback

 To pause playback, press the [3] button on the control panel. To resume playback, press the [3] button again.

Playing repeatedly

On the control panel, press the

 [1] button. The repeat play mode changes each time you press it.
 The corresponding mode icon will be displayed on the screen.

Playing in random order

On the control panel, press the

 [2] button. The shuffle play mode
 is activated or deactivated each
 time you press it. When you
 activate the shuffle mode, the
 corresponding mode icon will be
 displayed on the screen.

* NOTICE

• Depending on the connected Bluetooth device, mobile phone,

or the music player you are using, playback controls may differ.

- Depending on the music player you are using, streaming may not be supported.
- Depending on the connected Bluetooth device or mobile phone, some functions may not be supported.
- If you connect a Bluetooth device or mobile phone to your system via USB and Bluetooth simultaneously the Bluetooth mode is deactivated and music plays in the USB or iPod mode. To listen to music streamed via Bluetooth, remove the USB device.
- If a Bluetooth enabled phone is being used to play music and it receives or makes a phone call, the music will stop.
- Receiving an incoming call or making an outgoing call while playing Bluetooth audio may result in audio interference.
- If you use the Bluetooth phone mode while using Bluetooth audio, playback may not automatically resume after you end the call depending on the connected mobile phone.
- Moving the track up/down while playing Bluetooth audio mode may result in pop noises with some mobile phones.
- The Rewinding/Fast forwarding function is not supported in the Bluetooth audio mode.

- The playlist feature is not supported in the Bluetooth audio mode.
- If the Bluetooth device is disconnected, Bluetooth audio mode will end.

Using a Bluetooth phone

You can use Bluetooth to talk on the phone hands free. View call information on the system screen, and make or receive calls safely and conveniently via the vehicle's builtin microphone and speakers.

A WARNING

- Park your vehicle in a safe location before connecting Bluetooth devices. Distracted driving can cause a traffic accident and lead to personal injury or death.
- Never dial a phone number or pick up your mobile phone while driving. Use of a mobile phone may distract your attention, making it difficult to recognize external conditions and reducing the ability to cope with unexpected situations, which may lead to an accident. If necessary, use the Bluetooth Handsfree feature to make calls and keep the call as short as possible.

- You cannot access the Phone screen if there is no connected mobile phone. To use the Bluetooth phone function, connect a mobile phone to the system.
- The Bluetooth Handsfree function may not work when you are passing out of the cellular service coverage area, such as when you are in a tunnel, underground, or in a mountainous area.
- Call quality may be degraded in the following environments:
 - The reception of the mobile phone is poor
 - The inside of the vehicle is noisy
 - The mobile phone is placed near metallic objects, such as a beverage can
- Depending on the connected mobile phone, the volume and sound quality of the Bluetooth Handsfree may vary.

Making a call

If your mobile phone is connected to the system, you can make a call by selecting a name from your call history or contacts list.

- 1. On the control panel, press the [**PHONE**] button.
 - Alternatively, press the Call/ Answer button on the steering wheel.

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* NOTICE

2. If you have multiple paired mobile devices, select a mobile phone from your list of paired devices.



- 3. Select a phone number.
 - To select a phone number from your favourites list, select

Favourites.

- To select a phone number from your call history, select **Call** history.
- To select a phone number from your contacts list that downloaded from the connected mobile phone, select **Contacts**.
- 4. To end the call, press the [2] button on the control panel to select **End**.
 - Alternatively, press the Call end button on the steering wheel.

Using the favourites list

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

Phone	12:00 AM	™ (Q) o¥il
Favourites (4)		1/2
Edit favourites		
John Smith		
Scott Davis		ជា
Mary Jones		ራ

Press the [**MENU**] button on the control panel to access the following a menu option:

• Delete: Delete favourites items.

* NOTICE

- You can register up to 20 favourites for each device.
- You must first download the contacts to the system to register favourites.
- The favourites list saved on the mobile phone is not downloaded to the system.
- Even if the contact information on the mobile phone is edited, the favourites on the system are not automatically edited. Delete and add the item to favourites again.
- When you connect a new mobile phone, your favourites set for the previous mobile phone will not be displayed, but they will remain in your system until you delete the previous phone from the device list.

Using your call history

- 1. From the Phone screen, press the [2] button to select **Call history**.
- 2. Turn the [**TUNE**] knob to select the desired entry, and then press the knob to make a phone call.



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

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

* NOTICE

- Some mobile phones may not support the download function.
- The call history is accessed only when the mobile phone is connected to the system.
- Calls from restricted IDs are not saved on the call history list.
- Up to 50 call records will be downloaded per individual list.

- Call duration and time information will not be displayed on the system screen.
- Permission is required to download your call history from the mobile phone. When you attempt to download data, you may need to permit the download on the mobile phone. If the download fails, check the mobile phone screen for any notification or the mobile phone's permission setting.
- When you download your call history, any old data will be deleted.

Using the contacts list

- From the Phone screen, press the
 [3] button to select Contacts.
- 2. Turn the [**TUNE**] knob to select the desired group of alphanumeric characters, and then press the knob.
- 3. Turn the [**TUNE**] knob to select the desired contact, and then press the knob to make a phone call.

Phone	12:00 AM	™ @, o‰i
Contacts (485)		147/162
John Smith		🛛 슈 🖬
Scott Davis		□ ♤
Mary Jones		
Olivia Lee		

Press the [**MENU**] button on the control panel to access the following a menu option:

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

* NOTICE

- Contacts can be downloaded only from the currently connected Bluetooth device.
- Contacts can be viewed only when the Bluetooth device is connected.
- Only contacts in the supported format can be downloaded and displayed from the Bluetooth device. Contacts from some applications will not be included.
- Up to 2,000 contacts can be downloaded from your device.
- Some mobile phones may not support the download function.
- Depending on the system's specifications, some of the downloaded contacts may be lost.
- Contacts stored both in the phone and in the SIM card are downloaded. With some mobile phones, contacts in the SIM card may not be downloaded.
- Special characters and figures used in the contact name may not be displayed properly.
- Permission is required to download contacts from the mobile phone. When you attempt to download data, you may need to permit the download on the mobile phone. If the download

fails, check the mobile phone screen for any notification or the mobile phone's permission setting.

- Depending on the mobile phone type or status, downloading may take longer.
- When you download your contacts, any old data will be deleted.
- You cannot edit or delete your contacts on the system.
- When you connect a new mobile phone, your contacts downloaded from the previous mobile phone will not be displayed, but they will remain in your system until you delete the previous phone from the device list.

Answering calls

When a call comes in, a notification pop-up window of the incoming call appears on the system screen.



- To answer the call, press the [1] button on the control panel to select Accept.
 - Alternatively, press the Call/ Answer button on the steering wheel.

- To reject the call, press the [2] button on the control panel to select Reject.
 - Alternatively, press the Call end button on the steering wheel.

* NOTICE

- Depending on the mobile phone type, call rejection may not be supported.
- Once your mobile phone is connected to the system, the call sound may be output through the vehicle's speakers even after you exit the vehicle if the phone is within the connection range. To end the connection, disconnect the device from the system or deactivate Bluetooth on the device.

Using options during a call

During a call, you will see the call screen shown below. Press a button to perform the function you want.



• To switch the call to your mobile phone, press the [1] button on the control panel to select **Private**.

- Alternatively, press and hold the Call/Answer button on the steering wheel.
- To end the call, press the [2] button on the control panel to select **End**.
 - Alternatively, press the Call end button on the steering wheel.

Press the [**MENU**] button on the control panel to access the following a menu option:

• **Microphone Volume**: Adjust the microphone volume or turn off the microphone so the other party cannot hear you.

* NOTICE

- If the caller information is saved in your contacts list, the caller's name and phone number will be displayed. If the caller information is not saved in your contacts list, only the caller's phone number will be displayed.
- You cannot switch to any other screen, such as the audio screen or the settings screen, during a Bluetooth call.
- Depending on the mobile phone type, call quality may vary. On some phones, your voice may be less audible to the other party.
- Depending on the mobile phone type, the phone number may not be displayed.

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• Depending on the mobile phone type, the call switching function may not be supported.

Setup

Display

You can change the settings related to the system display.

- On the control panel, press the [SETUP/CLOCK] ▶ [1] buttons to select Display.
 - **Dimming mode**: Set the screen brightness to be adjusted automatically according to ambient lighting conditions or set the screen to stay bright or dark continuously.
 - **Brightness**: Adjust the brightness for the day or night mode according to your setting in the **Dimming mode** option.
 - Screensaver: Select a screen saver option to be displayed when the system is turned off.
 - Scroll text: Set to scroll text when information text is too long to display all on the screen.

* NOTICE

The text scroll function is only available in the following situation:

- When displaying main screen in the USB/iPod/Bluetooth audio and radio/DAB modes
- When displaying list screen in the USB/iPod/Bluetooth audio, radio/ DAB and phone modes

Sound

You can change the settings related to sounds, such as location where sound will be concentrated and the output level for each range.

- On the control panel, press the [SETUP/CLOCK] ▶ [2] buttons to select Sound.
 - **Position**: Select a location where sound will be concentrated in the vehicle. Select **Fade** or **Balance**, turn the [**TUNE**] knob to select the desired position, and then press the knob. To set sound to be centred in the vehicle, select **Centre**.
 - **Equaliser**: Adjust the output level for each sound tone mode.
 - Speed dependent volume control: Set the volume to be adjusted automatically according to your driving speed.
 - Rear parking sensors prioritised: Set to decrease the audio volume to hear a reverse warning prior to other sounds while reversing your vehicle.

* NOTICE

- Depending on vehicle models or specifications, available options may vary.
- Depending on the system or amplifier specifications applied to your vehicle, available options may vary.

Date/Time

You can change the date and time that are shown on the system display.

- On the control panel, press the [SETUP/CLOCK] ▶ [3] buttons to select Date/Time.
 - **Set date**: Set date to display on the system display.
 - **Set time**: Set time to display on the system display.
 - **Time format**: Select to display time in the 12 hour format or the 24 hour format.

Bluetooth

You can change the settings for Bluetooth connections.

- On the control panel, press the [SETUP/CLOCK] ▶ [4] buttons to select Bluetooth.
 - **Connections**: Pair new Bluetooth devices with your system, or connect or disconnect a paired device. You can also delete paired devices.
 - Auto connection priority: Select a paired device to connect to your system automatically when it turns on.
 - **Update contacts**: Download the contacts list from the connected mobile phone.
 - Bluetooth voice guidance: Turn on or off the voice guidance for Bluetooth pairing, connection, and errors.

* NOTICE

• If no Bluetooth device is connected, the Update contacts menu is disabled.

• If the system language is selected to Slovakian or Hungarian, Bluetooth voice guidance menu is disabled.

System

You can change the display language or initialise system settings.

- On the control panel, press the [SETUP/CLOCK] ▶ [5] buttons to select System.
 - Language: Change the display language.
 - **Default**: Reset your system settings to the default values. All user data stored in the system will also be deleted.

System status icons

Status icons appear at the top of the screen to display the current system status.

Familiarise yourself with the status icons that appear when you perform certain actions or functions and their meanings.



Mute

lcon	Description
ц,	Audio muted

Bluetooth

lcon	Description
	Battery level of connected Bluetooth device
1	Mobile phone connected via Bluetooth
8 1	Audio device connected via Bluetooth
B 1	Mobile phone and audio device connected via Bluetooth
Co	Bluetooth call in progress
ø [₽] ©	Microphone turned off during Bluetooth call

lcon	Description
ß	Downloading call history from a mobile phone connected via Bluetooth to the system
C.	Downloading contacts from a mobile phone connected via Bluetooth to the system

Signal strength

 Icon
 Description

 Signal strength of the mobile phone connected via Bluetooth
 Signal strength of the mobile phone connected via Bluetooth

* NOTICE

- The battery level displayed on the screen may differ from the battery level displayed on the connected device.
- The signal strength displayed on the screen may differ from the signal strength displayed on the connected mobile phone.
- Depending on vehicle models and specifications, some status icons may not be displayed.

Infotainment system specifications

USB

Supported audio formats

- Audio file specification
 - WAVeform audio format
 - MPEG1/2/2.5 Audio Layer3
 - Windows Media Audio Ver 7.X/ 8.X
- Bit rates
 - MPEG1 (Layer3): 32/40/48/56/ 64/80/96/112/128/160/192/ 224/256/320 kbps
 - MPEG2 (Layer3): 8/16/24/32/ 40/48/56/64/80/96/112/128/ 144/160 kbps
 - MPEG2.5 (Layer3): 8/16/24/32/ 40/48/56/64/80/96/112/128/ 144/160 kbps
 - WMA (High Range): 48/64/80/ 96/128/160/192 kbps
- Bits Per Sample
 - WAV (PCM(Stereo)): 24 bit
 - WAV (IMA ADPCM): 4 bit
 - WAV (MS ADPCM): 4 bit
- Sampling frequency
 - MPEG1: 44100/48000/32000 Hz
 - MPEG2: 22050/24000/16000 Hz
 - MPEG2.5: 11025/12000/8000 Hz
 - WMA: 32000/44100/48000 Hz
 - WAV: 44100/48000 Hz
- Maximum number of directory layers: No limitation

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- Maximum length of folder names (Based on Unicode): 31 English or Korean characters
- Maximum length of file names (Based on Unicode): 63 English or Korean characters
- The scroll feature can be used to display file and folder names that are too long to display on the screen.
- Supported characters for folder/ file names (Unicode support): 2,604 Korean characters, 94 alphanumeric characters, 4,888 Chinese characters in common use, 986 special characters
- Maximum number of folders: 2,000
- Maximum number of files: 6,000

* NOTICE

- Files that are not in a supported format may not be recognised or played, or information about them, such as the file name, may not be displayed properly.
- Only files with .mp3/.wma/.wav extensions can be recognised by the system. If the file is not in supported format, change the file format by using the latest encoding software.
- The device will not support files locked by DRM (Digital Rights Management).
- For MP3/WMA compression files and WAV file, differences in sound quality will occur depending on

the bitrate. (Music files with a higher bitrate have a better sound quality.)

• Japanese or Simplified Chinese characters in folder or file names may not be displayed properly.

Supported USB storage devices

- Byte/Sector: 64 kbyte or less
- Format system: FAT12/16/32 (recommended)
- Maximum device size: 32 GB

* NOTICE

- Operation is guaranteed only for a metal cover type USB storage device with a plug type connector.
 - USB storage devices with a plastic plug may not be recognised.
 - USB storage devices in memory card types, such as CF card or SD cards, may not be recognised.
- USB hard disk drives may not be recognised.
- When you use a large capacity USB storage device with multiple logical drives, only files stored on the first drive will be recognised.
- If an application program is loaded on a USB storage device, the corresponding media files may not play.
- Use USB 2.0 devices for better compatibility.

Bluetooth

- Bluetooth Power Class 2: -6 to 4 dBm
- Aerial power: Max 3 mW
- Frequency range: 2400 to 2483.5 MHz
- Bluetooth patch RAM software version: 1

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Declaration of Conformity

CE RED for EU

EU Declaration of Conformity



Product details an				
Product III	DIGITAL CAR AUDIO SYSTEM			
Model	ACBC017EP, ACB1017EP, ACB	117EP, ACBCLITEP		
We hereby declare, that the p 2014/53/EU by application of		with the essential requireme	nts of the Directive	
Applied Standards m				
Article (# 3.2 Radio (#	EN 300 328 V2.1.1 (2016-11)	. Final Oraft EN 303 345 VL 17	7 (2017-03)	
Article in 3.1b EMC m	EN 301 489-1 V2.1 1 (2017-0 EN 55032:2015, EN 55035:20	7), EN 301 489-17 V3.1.1 (201 117	7-02),	
Article in 3.1a Safety in, Health ini	EN 60065-2014, EN 62311-26	08		
Manufacturer and		Representative in th	e EU pa	
Hyundar MOBIS Co., 1td.		MOBIS Parts Europe N.V.		
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Notified Body :==		Signed By na	25/03/2019	
SGS United Kingdom Limited		This declaration of conformity is issued under the sole		
Unit 12A & 128, Bowburn Sou	th industrial Est	responsibility of the	manufacturer. im	
Bowburn, Durham, DH6 SAD			Seunghoon Chor	
Notified Body Identification	. 0890	2/20	Representative	
Reference um	19/0126/KR	100	Hyundai MOBIS Co., Ltd.	

STB for Belarus



Customs Union Certificate of Conformity

Catergory	Specification
Model	ACB10J7EP
Manufacturer	HYUNDAI MOBIS Co., Ltd. 203, Teheran-ro, Gangnam-gu, Seoul, 06141, Korea
Date of Manufacture	Check product for dates

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GVWR (Gross vehicle weight rating)	6-178
Overloading	6-178

DRIVING YOUR VEHICLE

A WARNING

ENGINE EXHAUST CAN BE DANGEROUS!

Engine exhaust fumes can be extremely dangerous. If, at any time, you smell exhaust fumes inside the vehicle, open the windows immediately.

- Do not inhale exhaust fumes. Exhaust fumes contain carbon monoxide, a colorless, odorless gas that can cause unconsciousness and death by asphyxiation.
- Be sure the exhaust system does not leak.

The exhaust system should be checked whenever the vehicle is raised to change the oil or for any other purpose. If you hear a change in the sound of the exhaust or if you drive over something that strikes the underneath side of the vehicle, have the system checked by a professional workshop. Kia recommends to visit an authorized Kia dealer/service partner.

• Do not run the engine in an enclosed area.

Letting the engine idle in your garage, even with the garage door open, is a hazardous practice. Never run the engine in your garage any longer than it takes to start the engine and back the car out.

Avoid idling the engine for prolonged periods with people inside the car.

If it is necessary to idle the engine for a prolonged period with people inside the car, be sure to do so only in an open area with the air intake set at "Fresh" and fan operating at one of the higher speeds so fresh air is drawn into the interior.

If you must drive with the trunk lid open because you are carrying objects that make this necessary:

- 1. Close all windows.
- 2. Open side vents.
- Set the air intake control at "Fresh", the air flow control at "Floor" or "Face" and the fan at one of the higher speeds.

To assure proper operation of the ventilation system, be sure the ventilation air intakes located just in front of the windshield are kept clear of snow, ice, leaves or other obstructions.

Before driving

Before entering vehicle

- Be sure that all windows, outside mirror(s), 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, with the exact interval depending on the fluid. Refer to "Scheduled maintenance service" on page 8-43.

WARNING

Driving while distracted can result in a loss of vehicle control, that may lead to an accident, severe personal injury, and death. The driver's primary responsibility is in the safe and legal operation of a vehicle, and use of any handheld devices, other equipment, or vehicle systems which take the driver's eyes, attention and focus away from the safe operation of a vehicle or which are not permissible by law should never be used during operation of the vehicle.

Before starting

- Close and lock all doors.
- Position the seat so that all controls are easily reached.
- Adjust the inside and outside rearview mirrors.
- Be sure that all lights work.
- · Check all gauges.
- Check the operation of warning lights when the ignition switch is turned to the ON position.
- Release the parking brake and make sure the brake warning light goes out.

For safe operation, be sure you are familiar with your vehicle and its equipment.

A WARNING

All passengers must be properly belted whenever the vehicle is moving. Refer to "Seat belts" on page 3-21 for more information on their proper use.

A WARNING

Always check the surrounding areas near your vehicle for people, especially children, before putting a car into D (Drive) or R (Reverse).

A WARNING

Driving under the influence of alcohol or drugs

Drinking and driving is dangerous. Drunk driving is the number one contributor to the highway death toll each year. Even a small amount of alcohol will affect your reflexes, perceptions and judgment. Driving while under the influence of drugs is as dangerous or more dangerous than driving drunk.

You are much more likely to have a serious accident if you drink or take drugs and drive.

If you are drinking or taking drugs, don't drive. Do not ride with a driver who has been drinking or taking drugs. Choose a designated driver or call a cab.

WARNING

- When you intend to park or stop the vehicle with the engine on, be careful not to depress the accelerator pedal for a long period of time. It may overheat the engine or exhaust system and cause fire.
- When you make a sudden stop or turn the steering wheel rapidly, loose objects may drop on the floor and it could interfere with the operation of the foot pedals, possibly causing an accident. Keep all things in the vehicle safely stored.
- If you do not focus on driving, it may cause an accident. Be careful when operating what may disturb

driving such as audio or heater. It is the responsibility of the driver to always drive safely.

Key positions (if equipped)

Ignition switch position

LOCK









The steering wheel locks to protect against theft. The ignition key can be removed only in the LOCK position.

ACC (Accessory)

The steering wheel is unlocked and electrical accessories are operative.

* NOTICE

If difficulty is experienced turning the ignition switch to the ACC position, turn the key while turning the steering wheel right and left to release the tension.

ON

The warning lights can be checked before the engine is started. This is the normal running position after the engine is started.

Do not leave the ignition switch ON if the engine is not running to prevent battery discharge.

START

Turn the ignition switch to the START position to start the engine. The engine will crank until you release the key; then it returns to the ON position. The brake warning light can be checked in this position.

A WARNING

Ignition switch

- Never turn the ignition switch to LOCK or ACC while the vehicle is moving. This would result in loss of directional control and braking function, which could cause an accident.
- The anti-theft steering column lock is not a substitute for the

Key positions

parking brake. Before leaving the driver's seat, always make sure the shift lever is engaged in 1st gear for the manual transmission, set the parking brake fully and shut the engine off. Unexpected and sudden vehicle movement may occur if these precautions are not taken.

- Never reach for the ignition switch, or any other controls through the steering wheel while the vehicle is in motion. The presence of your hand or arm in this area could cause a loss of vehicle control, an accident and serious bodily injury or death.
- Do not place any movable objects around the driver's seat as they may move while driving, interfere with the driving.

Starting the engine

A WARNING

- Always wear appropriate shoes when operating your vehicle. Unsuitable shoes (high heels, ski boots,etc.) may interfere with your ability to use the brake and accelerator pedal, and the clutch. (if equipped)
- Do not start the vehicle with the accelerator pedal depressed. The vehicle can move and lead to an accident.

 Wait until the engine rpm is normal. The vehicle may suddenly move if the brake padel is released when the rpm is high.

Starting the gasoline engine

- 1. Make sure the parking brake is applied.
- 2. **Manual Transmission** Depress the clutch pedal fully and shift the transmission into Neutral. Keep the clutch pedal and brake pedal depressed while turning the ignition switch to the start position.

Automatic transmission / Dual clutch transmission - Place the transmission shift lever in P (Park). Depress the brake pedal fully.

You can also start the engine when the shift lever is in the N (Neutral) position.

- 3. Turn the ignition switch to START and hold it there until the engine starts (a maximum of 10 seconds), then release the key. It should be started **without depressing the accelerator pedal.**
- 4. Do not wait for the engine to warm up while the vehicle remains stationary. Start driving at moderate engine speeds. (Steep accelerating and decelerating should be avoided.)

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Starting the diesel engine

To start the diesel engine when the engine is cold, it has to be preheated before starting the engine and then have to be warmed up before starting to drive.

- 1. Make sure the parking brake is applied.
- 2. **Manual Transmission** Depress the clutch pedal fully and shift the transmission into Neutral. Keep the clutch pedal and brake pedal depressed while pressing the ENGINE START/STOP button to the START position.

Automatic Transmission / Dual clutch transmission – Place the transmission shift lever in P (Park). Depress the brake pedal fully.

You can also start the engine when the shift lever is in the N (Neutral) position.

Glow indicator light



- 3. Turn the ignition switch to the ON position to pre-heat the engine. Then the glow indicator light will illuminate.
- 4. If the glow indicator light goes out, turn the ignition switch to the START position and hold it there until the engine starts (a maximum of 10 seconds), then release the key.

* NOTICE

If the engine does not start within 10 seconds after the preheating is completed, turn the ignition key once more to the LOCK position for 10 seconds, and then to the ON position, in order to preheat again.

Starting and stopping the engine for turbocharger intercooler

- Do not race or accelerate the engine immediately after starting. If the engine is cold, idle for several seconds before sufficient lubrication is ensured in the turbocharger unit.
- 2. After high speed or extended driving, requiring a heavy engine load, idle the engine about 1 minute before turning it off. This idle time will allow the turbocharger to cool prior to shutting the engine off.

A CAUTION



Do not turn the engine off immediately after it has been subjected to a heavy load. Doing so may cause severe damage to the engine or turbocharger unit.

A CAUTION

If the engine stalls while you are in motion, do not attempt to move the

shift lever to the P (Park) position. If traffic and road conditions permit, you may put the shift lever in the N (Neutral) position while the vehicle is still moving and turn the ignition switch to the START position in an attempt to restart the engine.

A CAUTION

- Do not engage the starter for more than 10 seconds. If the engine stalls or fails to start, wait 5 to 10 seconds before reengaging the starter. Improper use of the starter may damage it.
- Do not turn the ignition switch to the START position with the engine running. It may damage the starter.

Stopping the gasoline engine/diesel engine (Manual Transmission)

- 1. Make sure the vehicle is completely stopped and keep the clutch pedal and brake pedal depressed.
- 2. Shift the transmission into Neutral while depressing the clutch pedal and brake pedal.
- 3. Engage the parking brake while depressing the brake pedal.
- 4. Turn the ignition key to the LOCK position and remove it.

ENGINE START/STOP button (if equipped)

Illuminated ENGINE START/STOP button



Whenever the front door is opened, the ENGINE START/STOP button will illuminate for your convenience. The light will go off after about 30 seconds when the door is closed. It will also go off immediately when the theft-alarm system is armed.

ENGINE START/STOP button position

OFF

With manual transmission

To turn off the engine (START/ RUN position) or vehicle power (ON position), stop the vehicle then press the ENGINE START/STOP button.

With automatic transmission/dual clutch transmission

To turn off the engine (START/ RUN position) or vehicle power (ON position), press the ENGINE START/ STOP button with the shift lever in the P (Park) position. When you press the ENGINE START/STOP button without the shift lever in the P (Park) position, the ENGINE START/ STOP button will not change to the OFF position but to the ACC position.

Vehicles equipped with anti-theft steering column lock

The steering wheel locks when the ENGINE START/STOP button is in the OFF position to protect you against theft. It locks when the door is opened.

If the steering wheel is not locked properly when you open the driver's door, the warning chime will sound. Try locking the steering wheel again. If the problem is not solved, have the system checked by a professional workshop. Kia recommends to visit an authorized Kia dealer/service partner.

In addition, if the ENGINE START/ STOP button is in the OFF position after the driver's door is opened, the steering wheel will not lock and the warning chime will sound. In such a situation, close the door. Then the steering wheel will lock and the warning chime will stop.

* NOTICE

If the steering wheel doesn't unlock properly, the ENGINE START/STOP button will not work. Press the ENGINE START/STOP button while turning the steering wheel right and left to release the tension.

* NOTICE

You are able to turn off the engine (START/RUN) or vehicle power (ON), only when the vehicle is not in motion.

A CAUTION

In an emergency situation while the vehicle is in motion, you are able to turn the engine off and to the ACC position by pressing the ENGINE START/STOP button for more than 2 seconds or 3 times successively within 3 seconds.

If the vehicle is still moving, to restart the vehicle:

- Manual transmission Press the ENGINE START/STOP button with shift lever in neutral and clutch pedal depressed.
- Automatic transmission / Dual clutch transmission – Press the ENGINE START/STOP button when vehicle speed is 5 km/h or over.

ACC (Accessory)

With manual transmission



Press the ENGINE START/STOP button when the button is in the OFF position without depressing the clutch pedal.

With automatic transmission / dual clutch transmission

Press the ENGINE START/STOP button while it is in the OFF position without depressing the brake pedal. The steering wheel unlocks and electrical accessories are operational.

If the ENGINE START/STOP button is in the ACC position for more than 1 hour, the button is turned off automatically to prevent battery discharge.

ON

With manual transmission

Press the ENGINE START/STOP button when the button is in the

ACC position without depressing the clutch pedal.

With automatic transmission / dual clutch transmission

Press the ENGINE START/STOP button while it is in the ACC position without depressing the brake pedal. The warning lights can be checked before the engine is started. Do not leave the ENGINE START/STOP button in the ON position for a long time. The battery may discharge, because the engine is not running.

START/RUN

With manual transmission

To start the engine, depress the clutch pedal and brake pedal, then press the ENGINE START/STOP button with the shift lever in the N (Neutral) position.

With automatic transmission / dual clutch transmission

To start the engine, depress the brake pedal and press the ENGINE START/STOP button with the shift lever in the P (Park) or the N (Neutral) position. For your safety, start the engine with the shift lever in the P (Park) position.

* NOTICE

If you press the ENGINE START/ STOP button without depressing the clutch pedal for manual transmission vehicles or without depressing the brake pedal for automatic transmission / dual clutch transmission vehicles, the engine will not start and the ENGINE START/ STOP button changes as follow: OFF \rightarrow ACC \rightarrow ON \rightarrow OFF or ACC

* NOTICE

If you leave the ENGINE START/STOP button in the ACC or ON position for a long time, the battery will discharge.

A WARNING

- Never press the ENGINE START/ STOP button while the vehicle is in motion. This would result in loss of directional control and braking function, which could cause an accident.
- The anti-theft steering column lock is not a substitute for the parking brake. Before leaving the driver's seat, always make sure the shift lever is engaged in P (Park), set the parking brake fully and shut the engine off. Unexpected and sudden vehicle movement may occur if these precautions are not taken.
- 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 cause loss of vehicle control, an accident and serious bodily injury or death.

• Do not place any movable objects around the driver's seat as they may move while driving, interfere with the driver and lead to an accident.

Starting the engine

WARNING

- Always wear appropriate shoes when operating your vehicle. Unsuitable shoes (high heels, ski boots,etc.) may interfere with your ability to use the brake, accelerator and clutch pedal.
- Do not start the vehicle with the accelerator pedal depressed. The vehicle can move and lead to an accident.
- Wait until the engine rpm is normal. The vehicle may suddenly move if the brake pedal is released when the rpm is high.

* NOTICE

Kick down mechanism

Use the kick down mechanism for maximum acceleration. Depress the accelerator pedal beyond the pressure point. The automatic transmission will shift to a lower gear depending on the engine speed.

Starting the gasoline engine

- 1. Carry the smart key or leave it inside the vehicle.
- 2. Make sure the parking brake is firmly applied.
- 3. **Manual Transmission** Depress the clutch pedal fully and shift the transmission into Neutral. Keep the clutch pedal and brake pedal depressed while starting the engine.

Automatic transmission / Dual clutch transmission – Place the transmission shift lever in P (Park). Depress the brake pedal fully. You can also start the engine when the shift lever is in the N (Neutral) position.

4. Press the ENGINE START/STOP button.

It should be started without depressing the accelerator pedal.

5. Do not wait for the engine to warm up while the vehicle remains stationary. Start driving at moderate engine speeds. (Steep accelerating and decelerating should be avoided.)

Starting the diesel engine

To start the diesel engine when the engine is cold, it has to be preheated before starting the engine and then have to be warmed up before starting to drive.

- 1. Make sure the parking brake is applied.
- 2. **Manual Transmission** Depress the clutch pedal fully and shift the transmission into Neutral. Keep the clutch pedal and brake pedal depressed while pressing the ENGINE START/STOP button to the START position.

Automatic Transmission / Dual clutch transmission - Place the transmission shift lever in P (Park). Depress the brake pedal fully.

You can also start the engine when the shift lever is in the N (Neutral) position.

Glow indicator light



- 3. Press the ENGINE START/STOP button while depressing the brake pedal.
- Continue depressing the brake pedal until the illuminated glow indicator goes off. (approximately 5 seconds)
- 5. The engine starts running when the glow indicator goes off.

A CAUTION

• Recommend to wait for the diesel engine to warm up while

the vehicle remains stationary in winter for a while and drive.

 Recommend to use diesel fuel in a high altitude mountain or country where you visit in winter.

* NOTICE

If the ENGINE START/STOP button is

pressed once more while the engine is pre-heating, the engine may start.

Starting and stopping the engine for turbocharger intercooler

- 1. Do not race or accelerate the engine immediately after starting. If the engine is cold, idle for several seconds before sufficient lubrication is ensured in the turbocharger unit.
- 2. After high speed or extended driving, requiring a heavy engine load, idle the engine about 1 minute before turning it off. This idle time will allow the turbocharger to cool prior to shutting the engine off.

A CAUTION

Do not turn the engine off immediately after it has been subjected to a heavy load. Doing so may cause severe damage to the engine or turbocharger unit.

Starting the engine with smart key

- Even if the smart key is in the vehicle, if it is far away from you, the engine may not start.
- When the ENGINE START/STOP button is in the ACC position or above, if any door is opened, the system checks for the smart key. If the smart key is not in the vehicle, the "
 "
 "
 indicator and a message "Key is not in the vehicle" will appear on the instrument cluster and I CD window. And if all doors are closed, the chime will sound for 5 seconds. The indicator or warning will turn off while the vehicle is moving. Always have the smart key with you.

A WARNING

The engine will start, only when the smart key is in the vehicle. Never allow children or any person who is unfamiliar with the vehicle touch the ENGINE START/STOP button or related parts.

A CAUTION

If the engine stalls while the vehicle is in motion, do not attempt to move the shift lever to the P (Park) position. If the traffic and road conditions permit, you may put the shift lever in the N (Neutral) position while the vehicle is still moving and press the ENGINE START/STOP

button in an attempt to restart the engine.



* NOTICE

- If the battery is weak or the smart key does not work correctly, you can start the engine by pressing the ENGINE START/ STOP button with the smart key. The side with the lock button should contact the ENGINE START/ STOP button directly. When you press the ENGINE START/STOP button directly with the smart key, the smart key should contact the button at a right angle.
- When the stop lamp fuse is blown, you cannot start the engine normally.

Replace the fuse with a new one. If it is not possible, you can start the engine by pressing the engine start/stop button for 10 seconds while it is in the ACC position. The engine can start without depressing the brake pedal. But for your safety always depress the brake pedal and clutch pedal (if equipped) before starting the engine.

CAUTION

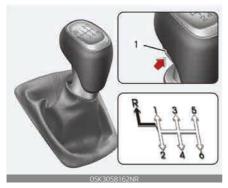
- Do not press the ENGINE START/ STOP button for more than 10 seconds except when the stop lamp fuse is blown.
- Do not turn the ignition switch to the START position with the engine running. It may damage the starter.

Stopping the gasoline engine/diesel engine (Manual Transmission)

- 1. Make sure the vehicle is completely stopped and keep the clutch pedal and brake pedal depressed.
- 2. Shift the transmission into Neutral while depressing the clutch pedal and brake pedal.
- 3. Engage the parking brake while depressing the brake pedal.
- 4. Turn the ignition key to the LOCK position and remove it.

Manual transmission

Manual transmission operation



 \Box The shift lever can be moved without pulling the button (1).

The button (1) should be pressed when moving the shift lever into reverse.

The manual transmission has 5 (or 6) forward gears.

This shift pattern is imprinted on the shift knob. The transmission is fully synchronized in all forward gears so shifting to either a higher or a lower gear is easily accomplished.

Depress the clutch pedal down fully while shifting, then release it slowly.

If your vehicle is equipped with an ignition lock switch, the engine will not start when starting the engine without depressing the clutch pedal. (if equipped) The shift lever must be returned to the neutral position before shifting into R (Reverse).

Push the button located immediately below the shift knob and pull the gearshift lever to the left sufficiently, and then shift into reverse (R) gear position.

Make sure the vehicle is completely stopped before shifting into R (Reverse).

Never operate the engine with the tachometer (rpm) in the red zone.

- When downshifting from fifth gear to fourth gear, caution should be taken not to inadvertently press the shift lever sideways in such a manner that the second gear is engaged. Such a drastic downshift may cause the engine speed to increase to the point that the tachometer will enter the red-zone. Such overrevving of the engine and transmission may possibly cause engine damage.
- Do not downshift more than 2 gears or downshift the gear when the engine is running at high speed (5,000 RPM or higher). Such a downshifting may damage the engine, clutch and the transmission.
- During cold weather, shifting may be difficult until the transmission

lubricant is warmed up. This is normal and not harmful to the transmission.

 If you've come to a complete stop and it's hard to shift into 1st or R(Reverse), leave the shift lever at N(Neutral) position and release the clutch. Press the clutch pedal back down, and then shift into 1st or R(Reverse) gear position.

A CAUTION

- To avoid premature clutch wear and damage, do not drive with your foot resting on the clutch pedal. Also, don't use the clutch to hold the vehicle stopped on an uphill grade, while waiting for a traffic light, etc.
- Do not use the shift lever as a handrest during driving, as this can result in premature wear of the transmission shift forks.
- To prevent possible damage to the clutch system, do not start with the 2nd (second) gear engaged except when you start on a slippery road.

WARNING

 Before leaving the driver's seat, always set the parking brake fully and shut the engine off. Then make sure the transmission is shifted into 1st gear when the vehicle is parked on a level or uphill grade, and shifted into R (Reverse) on a downhill grade.

Unexpected and sudden vehicle movement can occur if these precautions are not followed in the order identified.

 Do not use the engine brake (shifting from a high gear to lower gear) rapidly on slippery roads. The vehicle may slip causing an accident.

Using the clutch

The clutch should be pressed all the way to the floor before shifting, then released slowly. The clutch pedal should always be fully released while driving. Do not rest your foot on the clutch pedal while driving. This can cause unnecessary wear. Do not partially engage the clutch to hold the vehicle on an incline. This causes unnecessary wear. Use the foot brake or parking brake to hold the vehicle on an incline. Do not operate the clutch pedal rapidly and repeatedly.

▲ CAUTION

When operating the clutch pedal, press the clutch pedal down fully. If you don't press the clutch pedal fully, the clutch may be damaged or noise may occur.

6

Downshifting

When you must slow down in heavy traffic or while driving up steep hills, downshift before the engine starts to labor. Downshifting reduces the chance of stalling and gives better acceleration when you again need to increase your speed. When the vehicle is traveling down steep hills, downshifting helps maintain safe speed and prolongs brake life.

Good driving practices

- Never take the vehicle out of gear and coast down a hill. This is extremely hazardous. Always leave the vehicle in gear.
- Don't "ride" the brakes. This can cause them to overheat and malfunction. Instead, when you are driving down a long hill, shift to a lower gear. When you do this, engine braking will help slow down the vehicle.
- Slow down before shifting to a lower gear. This will help avoid over-revving the engine, which can cause damage.
- Slow down when you encounter cross winds. This gives you much better control of your vehicle.
- Be sure the vehicle is completely stopped before you attempt to shift into reverse. The transmission can be damaged if you do not.

• Exercise extreme caution when driving on a slippery surface. Be especially careful when braking, accelerating or shifting gears. On a slippery surface, an abrupt change in vehicle speed can cause the drive wheels to lose traction and the vehicle to go out of control.

A WARNING

- Always buckle-up! In a collision, an unbelted occupant is significantly more likely to be seriously injured or killed than a properly belted occupant.
- Avoid high speeds when cornering or turning.
- Do not make quick steering wheel movements, such as sharp lane changes or fast, sharp turns.
- The risk of rollover is greatly increased if you lose control of your vehicle at highway speeds.
- Loss of control often occurs if two or more wheels drop off the roadway and the driver oversteers to reenter the roadway.
- In the event your vehicle leaves the roadway, do not steer sharply. Instead, slow down before pulling back into the travel lanes.
- Never exceed posted speed limits.

Automatic transmission (if equipped)



Depress the brake pedal and the lock release button when shifting.

Press the lock release button when shifting.

The shift lever can be shifted freely.

Automatic transmission operation

The automatic transmission has 6 forward speeds and one reverse speed. The individual speeds are selected automatically, depending on the position of the shift lever.

* NOTICE

The first few shifts on a new vehicle, if the battery has been disconnected, may be somewhat abrupt.

This is a normal condition, and the shifting sequence will adjust after shifts are cycled a few times by the TCM (Transmission Control Module) or PCM (Powertrain Control Module).

For smooth operation, depress the brake pedal when shifting from N (Neutral) to a forward or reverse gear.

WARNING

Automatic transmission

- Always check the surrounding areas near your vehicle for people, especially children, before shifting a car into D (Drive) or R (Reverse).
- Before leaving the driver's seat, always make sure the shift lever is in the P (Park) position; then set the parking brake fully and shut the engine off. Unexpected and sudden vehicle movement can occur if these precautions are not followed in the order identified.
- Do not use the engine brake (shifting from a high gear to lower gear) rapidly on slippery roads. The vehicle may slip causing an accident.

A CAUTION

- To avoid damage to your transmission, do not accelerate the engine in R (Reverse) or any forward gear position with the brakes on.
- When stopped on an incline, do not hold the vehicle stationary

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with engine power. Use the service brake or the parking brake.

 Do not shift from N (Neutral) or P (Park) into D (Drive), or R (Reverse) when the engine is above idle speed.

Transmission ranges

The indicator in the instrument cluster displays the shift lever position when the ignition switch is in the ON position.

P (Park)

Always come to a complete stop before shifting into P (Park). This position locks the transmission and prevents the front wheels from rotating.

A WARNING

- Shifting into P (Park) while the vehicle is in motion will cause the drive wheels to lock which will cause you to lose control of the vehicle.
- Do not use the P (Park) position in place of the parking brake. Always make sure the shift lever is latched in the P (Park) position and set the parking brake fully.
- Never leave a child unattended in a vehicle.

A CAUTION

The transmission may be damaged if you shift into P (Park) while the vehicle is in motion.

R (Reverse)

Use this position to drive the vehicle backward.

A CAUTION

Always come to a complete stop before shifting into or out of R (Reverse); you may damage the transmission if you shift into R while the vehicle is in motion, except as explained in "Rocking the vehicle" in this section.

N (Neutral)

The wheels and transmission are not engaged. The vehicle will roll freely even on the slightest incline unless the parking brake or service brakes are applied.

A WARNING



Do not drive with the shift lever in N (Neutral).

The engine brake will not work and lead to an accident.

Parking in N (Neutral) gear

Follow below steps when parking and you want the vehicle to move when pushed.

- 1. After parking your vehicle, step on the brake pedal and move the shift lever to "P" with the ignition button in "ON" or while the engine is running.
- 2. If the parking brake is applied unlock the parking brake.
- 3. While pressing the brake pedal, turn the ignition button "OFF".
 - For smart key equipped vehicles, the ignition switch can be moved to "OFF" only when the shift lever is in "P".
- 4. Change the gear shift lever to "N" (Neutral) while pressing the brake pedal and pushing "SHIFT LOCK RELEASE" button or inserting, pressing down a tool (e.g. flathead screw-driver) into the "SHIFT LOCK RELEASE" access hole at the same time. Then, the vehicle will move when external force is applied.

A CAUTION

- With the exception of parking in neutral gear, always park the vehicle in "P" (Park) for safety and engage the parking brake.
- Before parking in "N" (Neutral) gear, first make sure the parking ground is level and flat. Do not park in "N" gear on any slopes or

gradients.

If parked and left in "N", the vehicle may move and cause serious damage and injury.

D (Drive)

This is the normal forward driving position. The transmission will automatically shift through a 6-gear sequence, providing the best fuel economy and power.

For extra power when passing another vehicle or climbing grades, depress the accelerator fully, at which time the transmission will automatically downshift to the next lower gear.

* NOTICE

Always come to a complete stop before shifting into D (Drive).

Sports mode



6

Whether the vehicle is stationary or in motion, sports mode is selected by pushing the shift lever from the D (Drive) position into the manual gate. To return to D (Drive) range operation, push the shift lever back into the main gate.

In sports mode, moving the shift lever backwards and forwards will allow you to make gearshifts rapidly. In contrast to a manual transmission, the sports mode allows gearshifts with the accelerator pedal depressed.

- Up (+): Push the lever forward once to shift up one gear.
- Down (-): Pull the lever backwards once to shift down one gear.

* NOTICE

- In sports mode, the driver must execute upshifts in accordance with road conditions, taking care to keep the engine speed below the red zone.
- In sports mode, only the 6 forward gears can be selected. To reverse or park the vehicle, move the shift lever to the R (Reverse) or P (Park) position as required.
- In sports mode, downshifts are made automatically when the vehicle slows down. When the vehicle stops, 1st gear is automatically selected.
- In sports mode, when the engine rpm approaches the red zone

shift points are varied to upshift automatically.

- To maintain the required levels of vehicle performance and safety, the system may not execute certain gearshifts when the shift lever is operated.
- When driving on a slippery road, push the shift lever forward into the +(up) position. This causes the transmission to shift into the 2nd gear which is better for smooth driving on a slippery road. Push the shift lever to the -(down) side to shift back to the 1st gear.

Shift lock system (if equipped)

For your safety, the automatic transmission has a shift lock system which prevents shifting the transmission from P (Park) into R (Reverse) unless the brake pedal is depressed.

To shift the transmission from P (Park) into R (Reverse):

- 1. Depress and hold the brake pedal.
- 2. Start the engine or turn the ignition switch to the ON position.
- 3. Move the shift lever.

If the brake pedal is repeatedly depressed and released with the shift lever in the P (Park) position, a chattering noise near the shift lever may be heard. This is a normal condition.

A WARNING

Always fully depress the brake pedal before and while shifting out of the P (Park) position into another position to avoid inadvertent motion of the vehicle which could injure persons in or around the vehicle.

Shift-lock override



If the shift lever cannot be moved from the P (Park) position into R (Reverse) position with the brake pedal depressed, continue depressing the brake, then do the following:

- 1. Place the ignition switch in the LOCK/OFF position.
- 2. Apply the parking brake.
- 3. Press down the shift lock release button.
- 4. Move the shift lever.
- 5. Have the system inspected by a professional workshop. Kia recommends to visit an authorized Kia dealer/service partner.

Good driving practices

- Never move the shift lever from P (Park) or N (Neutral) to any other position with the accelerator pedal depressed.
- Never move the shift lever into P (Park) when the vehicle is in motion.
- Be sure the vehicle is completely stopped before you attempt to shift into R (Reverse) or D (Drive).
- Never take the vehicle out of gear and coast down a hill. This may be extremely hazardous. Always leave the vehicle in gear when moving.
- Do not "ride" the brakes. This can cause them to overheat and malfunction. Instead, when you are driving down a long hill, slow down and shift to a lower gear. When you do this, engine braking will help slow down the vehicle.
- Slow down before shifting to a lower gear. Otherwise, the lower gear may not be engaged.
- Always use the parking brake. Do not depend on placing the transmission in P (Park) to keep the vehicle from moving.
- Exercise extreme caution when driving on a slippery surface. Be especially careful when braking, accelerating or shifting gears. On a slippery surface, an abrupt change in vehicle speed can cause the drive wheels to lose traction and the vehicle to go out of control.

• Optimum vehicle performance and economy is obtained by smoothly depressing and releasing the accelerator pedal.

A WARNING



- Always buckle-up! In a collision, an unbelted occupant is significantly more likely to be seriously injured or killed than a properly belted occupant.
- Avoid high speeds when cornering or turning.
- Do not make quick steering wheel movements, such as sharp lane changes or fast, sharp turns.
- The risk of a rollover is greatly increased if you lose control of your vehicle at highway speeds.
- Losing control often occurs if two or more wheels drop off the roadway and the driver oversteers to reenter the roadway.
- In the event your vehicle leaves the roadway, do not steer sharply. Instead, slow down before pulling back into the travel lanes.
- Never exceed posted speed limits.

A WARNING

If your vehicle becomes stuck in snow, mud, sand, etc., then you may attempt to rock the vehicle free by moving it forward and backward. Do not attempt this procedure if people or objects are anywhere near the vehicle. During the rocking operation the vehicle may suddenly move forward or backward as it becomes unstuck, causing injury or damage to nearby people or objects.

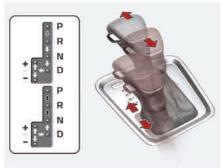
Moving up a steep grade from a standing start

To move up a steep grade from a standing start:

 Depress the brake pedal, shift the shift lever to D (Drive). Select the appropriate gear depending on load weight and steepness of the grade, and release the parking brake. Depress the accelerator gradually while releasing the service brakes.

When accelerating from a stop on a steep hill, the vehicle may have a tendency to roll backwards. Shifting the shift lever into 2 (Second Gear) will help prevent the vehicle from rolling backwards.

Dual Clutch Transmission (DCT) (if equipped)



OCDW059003

Depress the brake pedal and the lock release button when shifting.

Press the lock release button when shifting.

The shift lever can be shifted freely.

Dual clutch transmission operation

The dual clutch transmission has seven forward speeds and one reverse speed.

The individual speeds are selected automatically when the shift lever is in the D (Drive) position.

A WARNING

To reduce the risk of serious injury or death:

• ALWAYS check the surrounding areas near your vehicle for people, especially children, before shifting a vehicle into D (Drive) or R (Reverse).

 Before leaving the driver's seat, always make sure the shift lever is in the P (Park) position, then set the parking brake, and place the ignition switch in the LOCK/OFF position.

Unexpected and sudden vehicle movement can occur if these precautions are not followed.

 Do not use engine braking (shifting from a high gear to lower gear) rapidly on slippery roads. The vehicle may slip causing an accident.

A CAUTION

- To avoid damage to your transmission, do not try to accelerate with the shift lever in R (Reverse) or any forward gear position with the brake engaged.
- When stopped on a slope, do not hold the vehicle with accelerator pedal. Engage the service brake or the parking brake.
- The dual clutch transmission can be thought of as an automatically shifting manual transmission. It gives the driving feel of a manual transmission, yet provides the ease of a fully automatic transmission.
- When D (Drive) is selected, the transmission will automatically

shift through the gears similar to a conventional automatic transmission.

Unlike a traditional automatic transmission, the gear shifting can sometimes be felt and heard as the actuators engage the clutches and the gears are selected.

 The dual clutch transmission adopts a dry-type dual clutch, which is different from the torque converter of the automatic transmission. It shows better acceleration performance and increased fuel efficiency while driving but initial launch might be little bit slower than the automatic transmission.

As a result, gear shifts are sometimes more noticeable than a conventional automatic transmission and a light vibration during launching can be felt as the transmission speed is matched with the engine speed. This is a normal condition of the dual clutch transmission.

 The dry-type clutch transfers torque more directly and provides a directdrive feeling which may feel different from a conventional automatic transmission with a torque converter. This may be more noticeable when launching the vehicle from a stop or when traveling at low, stop-and-go vehicle speeds.

- When rapidly accelerating at a low vehicle speed, the engine rpm may increase highly depending on the vehicle's driving condition.
- For smooth launch uphill, press down the accelerator pedal smoothly depending on the current conditions.
- If you release your foot from the accelerator pedal at low vehicle speed, you may feel strong engine braking, which is similar to manual transmission.
- When driving downhill, you may use Sports Mode or press the paddle shifters (if equipped) to downshift to a lower gear in order to control your speed without using the brake pedal excessively.
- When you turn the engine on and off, you may hear clicking sounds as the system goes through a self test. This is a normal sound for the Dual Clutch Transmission.
- During the first 1,500 km (1,000 miles), you may feel that the vehicle may not be smooth when accelerating at low speed. During this break-in period, the shift quality and performance of your new vehicle is continuously optimized.

* NOTICE

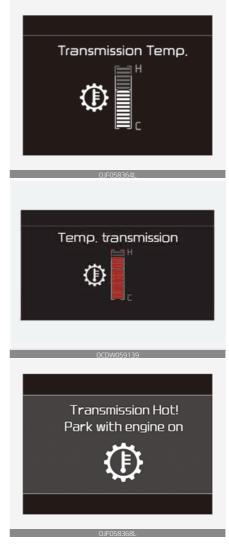
 Always come to a complete stop before shifting into D (Drive) or R (Reverse). • Do not put the shift lever in N (Neutral) while driving.

A WARNING

Due to transmission failure, the vehicle may not move and the position indicator (D, R) will blink on the cluster. In this case, have the system checked by a professional workshop. Kia recommends to visit an authorized Kia dealer/service partner.

LCD display for transmission temperature and warning message

Transmission temperature Gauge



• Select trip computer mode on the LCD display and move to the

transmission temperature screen to see the temperature of the dual clutch transmission.

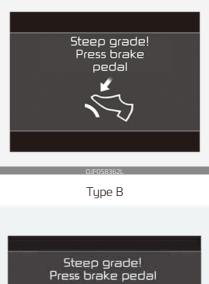
- Try to drive so that the temperature gauge do not show high/overheat. When the transmission is overheated, the warning message will display on the LCD. Follow the displayed message.
- The transmission temperature is displayed in three colors (white, orange and red) as it increases.
- Orange temperature gauge is displayed right before the warning message appears on the LCD display. (if equipped)

A CAUTION

- Increase (high temperature) of the transmission temperature gauge usually appears on an incline when the vehicle is stopped for a long time using accelerator pedal, without depressing the brake pedal.
- To maintain the optimal transmission performance, drive so that the white gauge is not exceeded. (if equipped)

DCT warning messages

Type A





This warning message is displayed when vehicle is driven slowly on a grade and the vehicle detects that the brake pedal is not applied.

Steep grade

Driving up hills or on steep grades:

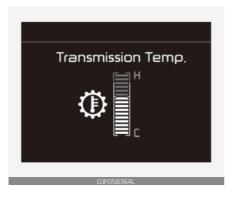
- To hold the vehicle on an incline use the foot brake or the parking brake.
- When in stop-and-go traffic on an incline, keep some distance

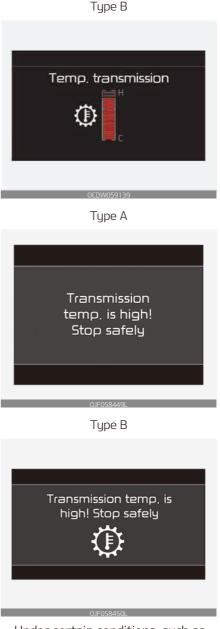
ahead before moving the vehicle forward. Then hold the vehicle on the incline with the foot brake.

- If the vehicle is held on a hill by applying the accelerator pedal or by creeping with brake pedal disengaged, the clutch and transmission may overheat which can result in damage. At this time, a warning message will appear on the LCD display.
- If the LCD warning is active, the foot brake must be applied.
- Ignoring the warnings can lead to damage to the transmission.

Transmission high temperature

Type A





• Under certain conditions, such as repeated stop-and-go launches on

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steep grades, sudden take off or acceleration, or other harsh driving conditions, the transmission clutch temperatures will increase excessively. Finally the clutch in transmission could be overheated.

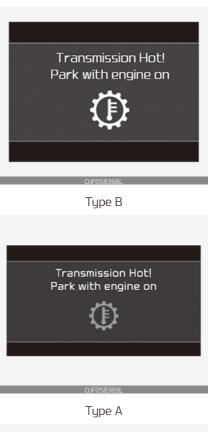
- When the clutch is overheated, the safe protection mode engages and the gear position indicator on the cluster blinks with a chime. At this time, "Transmission temp. is high! Stop safely" warning message will appear on the LCD display and driving may not be smooth.
- If this occurs, pull over to a safe location, stop the vehicle with the engine running, apply the brakes and shift the vehicle to P (Park), and allow the transmission to cool.
- If you ignore this warning, the driving condition may become worse. You may experience abrupt shifts, frequent shifts, or jerkiness. To return to the normal driving condition, stop the vehicle and apply the foot brake or shift into P (Park).

Then allow the transmission to cool for a few minutes with engine on, before driving off.

• When possible, drive the vehicle smoothly.

Transmission overheated

Type A



Transmission cooling. Park for -- min.

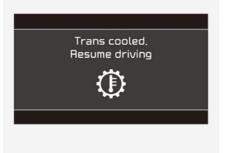
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Type B

Transmission cooling. Park for -- min.

OJF058371L Type A Trans cooled, Resume driving





• If the vehicle continues to

be driven and the clutch temperatures reach the maximum temperature limit, the "Transmission Hot! Park with engine on" warning will be displayed. When this occurs the clutch is disabled until the clutch cools to normal temperatures.

- The warning will display a time to wait for the transmission to cool.
- If this occurs, pull over to a safe location, stop the vehicle with the engine running, apply the brakes and shift the vehicle to P (Park), and allow the transmission to cool.
- When the message "Trans cooled. Resume driving." appears you can continue to drive your vehicle.
- When possible, drive the vehicle smoothly.

If any of the warning messages in the LCD display continue to blink, for your safety, have the system checked by a professional workshop. Kia recommends to visit an authorized Kia dealer/service partner.

Transmission ranges

The indicator in the instrument cluster displays the shift lever position when the ignition switch is in the ON position.

P (Park)

Always come to a complete stop before shifting into P (Park).

To shift from P (Park), you must depress firmly on the brake pedal and make sure your foot is off the accelerator pedal.

If you have done all of the above and still cannot shift the lever out of P (Park), see "Shift-Lock Release" in this chapter.

The shift lever must be in P (Park) before turning the engine off.

A WARNING



- Shifting into P (Park) while the vehicle is in motion may cause you to lose control of the vehicle.
- After the vehicle has stopped, always make sure the shift lever is in P (Park), apply the parking brake, and turn the engine off.
- When parking on an incline, block the wheels to prevent the vehicle from rolling down.
- For safety, always engage the parking brake with the shift lever in the P (Park) position except for the case of emergency parking.
- Do not use the P (Park) position in place of the parking brake.

R (Reverse)

Use this position to drive the vehicle backward.

A CAUTION



Always come to a complete stop before shifting into or out of R (Reverse); you may damage the transmission if you shift into R (Reverse) while the vehicle is in motion.

N (Neutral)

The wheels and transmission are not engaged.

Use N (Neutral) if you need to restart a stalled engine, or if it is necessary to stop with the engine ON. Shift into P (Park) if you need to leave your vehicle for any reason.

Always depress the brake pedal when you are shifting from N (Neutral) to another gear.

A WARNING

Do not shift into gear unless your foot is firmly on the brake pedal. Shifting into gear when the engine is running at high speed can cause the vehicle to move very rapidly. You may lose control of the vehicle and cause accidents.

A WARNING

Do not drive with the shift lever in N (Neutral).

The engine brake will not work and lead to an accident.

Parking in N (Neutral) gear

Follow below steps when parking and you want the vehicle to move when pushed.

- After parking your vehicle, step on the brake pedal and move the shift lever to [P] with the ignition button in [ON] or while the engine is running.
- 2. If the parking brake is applied unlock the parking brake.
 - For EPB (Electronic Parking Brake) equipped vehicles, push the brake pedal with the ignition button in [ON] or while the engine is running to disengage the parking brake. If [AUTO HOLD] function is used while driving (If [AUTO HOLD] indicator is on in the cluster), press [AUTO HOLD] switch and [AUTO HOLD] function should be turn off.
- 3. While pressing the brake pedal, turn the ignition button [OFF].
 - For smart key equipped vehicles, the ignition switch can be moved to [OFF] only when the shift lever is in [P].
- 4. Change the gear shift lever to [N] (Neutral) while pressing the brake pedal and pushing [SHIFT LOCK RELEASE] button or inserting, pressing down a tool (e.g. flathead screw-driver) into the [SHIFT LOCK RELEASE] access hole at the same time. Then, the vehicle

will move when external force is applied.

A CAUTION

- With the exception of parking in neutral gear, always park the vehicle in [P] (Park) for safety and engage the parking brake.
- Before parking in [N] (Neutral) gear, first make sure the parking ground is level and flat. Do not park in [N] gear on any slopes or gradients.

If parked and left in [N], the vehicle may move and cause serious damage and injury.

- After the ignition switch has been turned off, the electronic parking brake cannot be disengaged.
- For EPB (Electronic Parking Brake) equipped vehicles with [AUTO HOLD] function used while driving, if the ignition button has been turned [OFF], the electronic parking brake will be engaged automatically. Therefore, [AUTO HOLD] function should be turned off before the ignition button is turned off.

D (Drive)

This is the normal driving position. The transmission will automatically shift through a seven-gear sequence, providing the best fuel economy and power.

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For extra power when passing another vehicle or driving uphill depress the accelerator pedal further until you feel the transmission downshift to a lower gear.

A WARNING

- Do not shift into gear unless your foot is firmly on the brake pedal. Shifting into gear when the engine is running at high speed can cause the vehicle to move very rapidly. You may lose control of the vehicle and cause accidents.
- Do not drive with the shift lever in N (Neutral). The engine brake will not work and may lead to an accident.

* NOTICE

Always make sure the vehicle is stationary, at a complete stop, before selecting D (Drive).

Manual mode



Whether the vehicle is stationary or in motion, manual mode is selected by pushing the shift lever from the D (Drive) position into the manual gate. To return to D (Drive) range operation, push the shift lever back into the main gate.

In manual mode, moving the shift lever backwards and forwards will allow you to select the desired range of gears for the current driving conditions.

- + (Up): Push the lever forward once to shift up one gear.
- (Down): Pull the lever backwards once to shift down one gear.

* NOTICE

- Only the seven forward gears can be selected. To reverse or park the vehicle, move the shift lever to the R (Reverse) or P (Park) position as required.
- Downshifts are made
 automatically when the vehicle

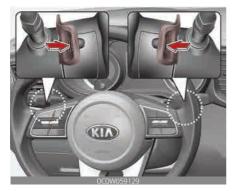
slows down. When the vehicle stops, 1st gear is automatically selected.

- When the engine rpm approaches the red zone the transmission will upshift automatically.
- If the driver presses the lever to

 (Up) or (Down) position, the
 transmission may not make the
 requested gear change if the next
 gear is outside of the allowable
 engine rpm range. The driver must
 execute upshifts in accordance
 with road conditions, taking care
 to keep the engine rpms below
 the red zone.

Paddle shifter (if equipped)

The paddle shift function is available when the shift lever is in the D (Drive) position or the manual mode.



With the shift lever in the D position

The paddle shift function will operate when the vehicle speed is more than 10km/h.

Pull the [+] or [-] paddle shifter once to shift up or down one gear and the system changes from automatic mode to manual mode.

When the vehicle speed is lower than 10km/h, if you depress the accelerator pedal for more than 5 seconds or if you shift the shift lever from D (Drive) to manual mode and shift it from manual mode to D (Drive) again, the system changes from manual mode to automatic mode.

With the shift lever in the manual mode

Pull the [+] or [-] paddle shifter once to shift up or down one gear.

* NOTICE

If you pull the [+] and [-] paddle shifters at the same time, you cannot shift the gear.

Shift lock system

For your safety, the Dual clutch transmission has a shift lock system which prevents shifting the transmission from P (Park) into R

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(Reverse) unless the brake pedal is depressed.

To shift the transmission from P (Park) into R (Reverse):

- 1. Depress and hold the brake pedal.
- 2. Start the engine or turn the ignition switch to the ON position.
- 3. Move the shift lever.

If the brake pedal is repeatedly depressed and released with the shift lever in the P (Park) position, a chattering noise & vibration near the shift lever may be heard. This is a normal condition.

A WARNING

Always fully depress the brake pedal before and while shifting out of the P (Park) position into another position to avoid inadvertent motion of the vehicle which could injure persons in or around the car.

Shift-lock override



If the shift lever cannot be moved from the P (Park) position into R (Reverse) position with the brake pedal depressed, continue depressing the brake, then do the following:

- 1. Place the ignition switch in the LOCK/OFF position.
- 2. Apply the parking brake.
- 3. Press down the shift lock release button.
- 4. Move the shift lever.
- 5. Have the system inspected by a professional workshop. Kia recommends to visit an authorized Kia dealer/service partner.

Good driving practices

- Never move the shift lever from P (Park) or N (Neutral) to any other position with the accelerator pedal depressed.
- Never move the shift lever into P (Park) when the vehicle is in motion.
- Be sure the car is completely stopped before you attempt to shift into R (Reverse) or D (Drive).
- Never take the car out of gear and coast down a hill. This may be extremely hazardous. Always leave the car in gear when moving.
- Do not "ride" the brakes. This can cause them to overheat and malfunction. Instead, when you are driving down a long hill, slow down and shift to a lower gear.

When you do this, engine braking will help slow the car.

- Slow down before shifting to a lower gear. Otherwise, the lower gear may not be engaged.
- Always use the parking brake.
 Do not depend on placing the transmission in P (Park) to keep the car from moving.
- Exercise extreme caution when driving on a slippery surface. Be especially careful when braking, accelerating or shifting gears. On a slippery surface, an abrupt change in vehicle speed can cause the drive wheels to lose traction and the vehicle to go out of control.
- Optimum vehicle performance and economy is obtained by smoothly depressing and releasing the accelerator pedal.

A WARNING

- Always buckle-up! In a collision, an unbelted occupant is significantly more likely to be seriously injured or killed than a properly belted occupant.
- Avoid high speeds when cornering or turning.
- Do not make quick steering wheel movements, such as sharp lane changes or fast, sharp turns.
- The risk of rollover is greatly increased if you lose control of your vehicle at highway speeds.
- Loss of control often occurs if two or more wheels drop off the

roadway and the driver oversteers to reenter the roadway.

- In the event your vehicle leaves the roadway, do not steer sharply. Instead, slow down before pulling back into the travel lanes.
- Never exceed posted speed limits.

A WARNING

If your vehicle becomes stuck in snow, mud, sand, etc., then you may attempt to rock the vehicle free by moving it forward and backward. Do not attempt this procedure if people or objects are anywhere near the vehicle. During the rocking operation the vehicle may suddenly move forward of 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, depress the brake pedal:

 Shift the shift lever to D (Drive). Select the appropriate gear depending on load weight and steepness of the grade, and release the parking brake. Depress the accelerator gradually while releasing the brake pedal.

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Brake system

Power brakes

Your vehicle has power-assisted brakes that adjust automatically through normal usage.

In the event that the power-assisted brakes lose power because of a stalled engine or some other reason, you can still stop your vehicle by applying greater force to the brake pedal than you normally would. The stopping distance, however, will be longer.

When the engine is not running, the reserve brake power is partially depleted each time the brake pedal is applied. Do not pump the brake pedal when the power assist has been interrupted.

Pump the brake pedal only when necessary to maintain steering control on slippery surfaces.

A WARNING

Brakes

 Do not drive with your foot resting on the brake pedal. This will create abnormal high brake temperatures, excessive brake lining and pad wear, and increased stopping distances.

• When descending a long or steep hill, shift to a lower gear and avoid continuous application of the brakes. Continuous brake application will cause the brakes to overheat and could result in a temporary loss of braking performance.

- Wet brakes may impair the vehicle's ability to safely slow down; the vehicle may also pull to one side when the brakes are applied. Applying the brakes lightly will indicate whether they have been affected in this way. Always test your brakes in this fashion after driving through deep water. To dry the brakes, apply them lightly while maintaining a safe forward speed until brake performance returns to normal.
- Always, confirm the position of the brake and accelerator pedal before driving. If you don't check the position of the accelerator and brake pedal before driving, you may depress the accelerator instead of the brake pedal. It may cause a serious accident.

In the event of brake failure

If service brakes fail to operate while the vehicle is in motion, you can make an emergency stop with the parking brake. The stopping distance, however, will be much greater than normal.

WARNING Parking brake

Applying the parking brake while the vehicle is moving at normal speeds can cause a sudden loss of control of the vehicle. If you must use the parking brake to stop the vehicle, use great caution in applying the brake. This brake wear warning sound means your vehicle needs service. If you ignore this audible warning, you will eventually lose braking performance, which could lead to a serious accident.

Disc brakes wear indicator

Your vehicle has disc brakes.

When your brake pads are worn and new pads are required, you will hear a high-pitched warning sound from your front brakes or rear brakes. You may hear this sound come and go or it may occur whenever you depress the brake pedal.

Please remember that some driving conditions or climates may cause a brake squeal when you first apply (or lightly apply) the brakes. This is normal and does not indicate a problem with your brakes.

A CAUTION



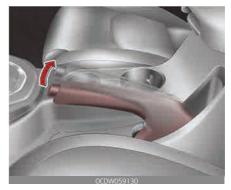
- To avoid costly brake repairs, do not continue to drive with worn brake pads.
- Always replace the front or rear brake pads as pairs.

A WARNING

Brake wear

Parking brake - Hand type (if equipped)

Applying the parking brake



• To engage the parking brake, first apply the foot brake and then pull up the parking brake lever as far as possible.

In addition it is recommended that when parking the vehicle on a incline, the shift lever should be in a low gear on manual transmission vehicles.

A CAUTION

• Driving with the parking brake applied will cause excessive brake pad and brake rotor wear.

 Do not operate the parking brake while the vehicle is moving except in an emergency situation. It could damage the vehicle system and make endanger driving safety.

Releasing the parking brake



 To release the parking brake, first apply the foot brake and pull up the parking brake lever slightly.
 Secondly depress the release button (1) and lower the parking brake lever (2) while holding the button.

If the parking brake does not release or does not release all the way, have the system checked by a professional workshop. Kia recommends to visit an authorized Kia dealer/service partner.

• Be cautious when parking on a hill. Firmly engage the parking brake and place the shift lever in first or reverse gear (manual transmission). If your vehicle is facing downhill, turn the front wheels into the curb to help keep the vehicle from rolling. If your vehicle is facing uphill, turn the front wheels away from the curb to help keep the vehicle from rolling. If there is no curb or if it is required by other conditions to keep the vehicle from rolling, block the wheels.

- Under some conditions your parking brake can freeze in the engaged position. This is most likely to happen when there is an accumulation of snow or ice around or near the rear brakes or if the brakes are wet. If there is a risk that the parking brake may freeze, apply it only temporarily while you put the shift lever in first or reverse gear (manual transmission) and block the rear wheels so the vehicle cannot roll. Then release the parking brake.
- Do not hold the vehicle on the upgrade with the accelerator pedal. This can cause the transmission to overheat. Always use the brake pedal or parking brake.

A WARNING

 Never allow anyone who is unfamiliar with the vehicle to touch the parking brake. If the parking brake is released unintentionally, serious injury may occur. All vehicles should always have the parking brake fully engaged when parking to avoid inadvertent movement of the vehicle which can injure occupants or pedestrians.



Check the brake warning light by turning the ignition switch ON (do not start the engine). This light will be illuminated when the parking brake is applied with the ignition switch in the START or ON position.

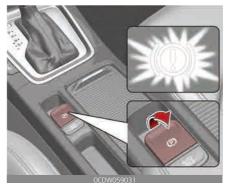
Before driving, be sure the parking brake is fully released and the brake warning light is off.

If the brake warning light remains on after the parking brake is released while engine is running, there may be a malfunction in the brake system. Immediate attention is necessary.

If at all possible, cease driving the vehicle immediately. If that is not possible, use extreme caution while operating the vehicle and only continue to drive the vehicle until you can reach a safe location or repair shop.

Electronic parking brake (EPB) (if equipped)

Applying the parking brake



To apply the EPB (electronic parking brake):

1. Depress the brake pedal.

2. Pull up the EPB switch.

Make sure the warning light comes on.

Also, the EPB is applied automatically if the Auto Hold button is on when the engine is turned off. However, if you keep pressing the EPB switch till the engine is turned off, the EPB will not be applied.

* NOTICE

On a steep incline or when pulling a trailer if the vehicle does not stand still, do as follows: 1. Apply the EPB.

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2. Pull up the EPB switch for more than 3 seconds.

A CAUTION

Do not operate the parking brake while the vehicle is moving except in an emergency situation. It could damage the vehicle system and endanger driving safety.

Releasing the parking brake



To release the EPB (electronic parking brake), press the EPB switch in the following condition:

- Have the ignition switch or ENGINE START/STOP button in the ON position.
- Depress the brake pedal.

Make sure the brake warning light goes off.

To release EPB (electronic parking brake) automatically:

- Shift lever in P (Park)
 With the engine running depress the brake pedal and shift out of P (Park) to R (Rear) or D (Drive).
- Shift lever in N (Neutral)
 With the engine running depress the brake pedal and shift out of N (Neutral) to R (Rear) or D (Drive).
- Manual transmission vehicle
 - 1. Start the engine.
 - 2. Fasten the driver's seat belt.
 - 3. Close the driver's door, engine hood and trunk.
 - 4. Depress the clutch pedal with the gear engaged.
 - 5. Depress the accelerator pedal while releasing the clutch pedal.
- Automatic transmission vehicle
 - 1. Start the engine.
 - 2. Fasten the driver's seat belt.
 - 3. Close the driver's door, engine hood and trunk.
 - 4. Depress the accelerator pedal while the shift lever is in R (Rear), D (Drive) or Sports mode.

Make sure the brake warning light goes off.

* NOTICE

 For your safety, you can engage the EPB even though the ignition switch or engine stop/start button is in the OFF position, but you cannot release it.

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• For your safety, depress the brake pedal and release the parking brake manually with the EPB switch when you drive downhill or when backing up the vehicle.

* NOTICE

Manual transmission

A vehicle towing a trailer on a hill or on an incline may slightly roll backwards when starting the vehicle. To prevent the situation follow the below instructions.

- 1. Depress the clutch pedal and select a gear.
- 2. Keep pulling up the EPB switch.
- 3. Depress the accelerator pedal and slowly release the clutch pedal.
- 4. If the vehicle starts off with enough driving power release the EPB switch.

Do not follow the above procedure when driving on a flat level ground. The vehicle may suddenly move forward.

- If the parking brake warning light is still on even though the EPB has been released, have the system checked by a professional workshop. Kia recommends to visit an authorized Kia dealer/ service partner.
- Do not drive your vehicle with the EPB applied. It may cause

excessive brake pad and brake rotor wear.

EPB (electronic parking brake) may be automatically applied when:

- The EPB is overheated
- Requested by other systems

* NOTICE

If the driver turns the engine off by mistake while Auto Hold is operating, EPB will be automatically applied. (Vehicle's equipped with Auto Hold)

System warning

To release EPB, fasten seatbelt, close door, hood, and trunk

OCD058083

- If you try to drive off depressing the accelerator pedal with the EPB applied, but doesn't release automatically, a warning will sound and a message will appear.
- If the driver's seat belt is not fastened and the engine hood or trunk is opened, a warning will sound and a message will appear.

• If there is a problem with the vehicle, a warning may sound and a message may appear.

If the above situation occurs, depress the brake pedal and release EPB by pressing the EPB switch.

WARNING

- To prevent unintentional movement when stopped and leaving the vehicle, do not use the shift lever in place of the parking brake. Set the parking brake and make sure the shift lever is securely positioned in P (Park).
- Never allow anyone who is unfamiliar with the vehicle to touch the parking brake. If the parking brake is released unintentionally, serious injury may occur.
- All vehicles should always have the parking brake fully engaged when parking to avoid inadvertent movement of the car which can injure occupants or pedestrians.

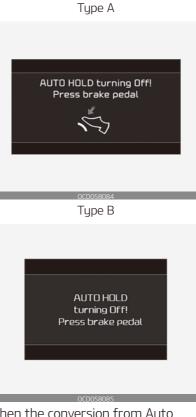
A CAUTION

- rd while
- A click sound may be heard while operating or releasing the EPB, but these conditions are normal and indicate that the EPB is functioning properly.
- When leaving your keys with a parking lot attendant or valet,

make sure to inform him/her how to operate the EPB.

- The EPB may malfunction if you drive with the EPB applied.
- When you automatically release EPB by depressing the accelerator pedal, depress it slowly.

System warning



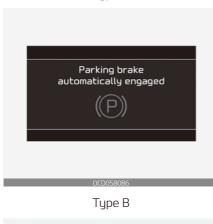
When the conversion from Auto Hold to EPB is not working properly a warning will sound and a message will appear.

▲ CAUTION

Depress the brake pedal when the above message appears for the Auto Hold and EPB may not activate.

Tupe A

System warning



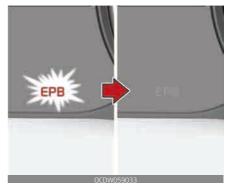
Parking brake automatically engaged

OCDW059087

If the EPB is applied while Auto Hold is activated because of ESC (Electronic Stability Control) signal, a warning will sound and a message will appear.

EPB malfunction indicator (if equipped)

Type A / Type B



This warning light illuminates if the ENGINE START/STOP button is changed to the ON position and goes off in approximately 3 seconds if the system is operation normally.

If the EPB malfunction indicator remains on, comes on while driving, or does not come on when the ignition switch or the ENGINE START/STOP button is changed to the ON position, this indicates that the EPB may have malfunctioned.

If this occurs, have the system checked by a professional workshop. Kia recommends to visit an authorized Kia dealer/service partner.

The EPB malfunction indicator may illuminate when the ESC indicator comes on to indicate that the ESC is not working properly, but it does not indicate a malfunction of the EPB.

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A CAUTION

- The EPB warning light may illuminate if the EPB switch operates abnormally. Shut the engine off and turn it on again after a few minutes. The warning light will go off and the EPB switch will operate normally. However, if the EPB warning light is still on, have the system checked by a professional workshop. Kia recommends to visit an authorized Kia dealer/service partner.
- If the parking brake warning light does not illuminate or blinks even though the EPB switch was pulled up, the EPB is not applied.
- If the parking brake warning light blinks when the EPB warning light is on, press the switch, then pull it up. Once more press it back to its original position and pull it back up. If the EPB warning does not go off, have the system checked by a professional workshop. Kia recommends to visit an authorized Kia dealer/service partner.

Emergency braking

If there is a problem with the brake pedal while driving, emergency braking is possible by pulling up and holding the EPB switch. Braking is possible only while you are holding the EPB switch.

A WARNING

Do not operate the parking brake while the vehicle is moving except in an emergency situation.

* NOTICE

A CAU

During emergency braking by the EPB, the parking brake warning light will illuminate to indicate that the system is operating.

TION	

If you continuously notice a noise or burning smell when the EPB is used for emergency braking, have the system checked by a professional workshop.

Kia recommends to visit an authorized Kia dealer/service partner.

When the EPB (electronic parking brake) does not release

If the EPB does not release normally, load the vehicle on a flatbed tow truck and have the system checked by a professional workshop. Kia recommends to visit an authorized Kia dealer/service partner.

AUTO HOLD (if equipped)

The Auto Hold maintains the vehicle in a standstill even though the

brake pedal is not depressed after the driver brings the vehicle to a complete stop by depressing the brake pedal.

Set up



1. With the driver's door, engine hood and trunk closed, fasten the driver's seat belt or depress the brake pedal and then press the Auto Hold button. The white AUTO HOLD indicator will come on and the system will be in the standby position.



2. When you stop the vehicle completely by depressing the

brake pedal, the AUTO HOLD indicator changes from white to green.

- 3. The vehicle will remain stationary even if you release the brake pedal.
- 4. If EPB is applied, Auto Hold will be released.

Leaving

If you press the accelerator pedal with the shift lever in, D (Drive) or sports mode, the Auto Hold will be released automatically and the vehicle will start to move. The indicator changes from green to white.

A WARNING

When driving off from Auto Hold by depressing the accelerator pedal, always check the surrounding area near your vehicle.

Slowly depress the accelerator pedal for a smooth launch.

Cancel



- To cancel the Auto Hold operation, press the Auto Hold switch. The AUTO HOLD indicator will go out.
- To cancel the Auto Hold operation when the vehicle is at a standstill, press the Auto Hold switch while depressing the brake pedal.

* NOTICE

- The Auto Hold does not operate
 when:
 - The driver's seat belt is unfastened and driver's door is opened.
 - The engine hood is opened.
 - The trunk is opened.
 - The shift lever is in P (Park).
 - The EPB is applied.
- For your safety, the Auto Hold automatically switches to EPB in such cases:
 - The driver's door is opened.
 - The engine hood is opened.
 - The trunk is opened.
 - The vehicle is in a standstill for more than 10 minutes.

- The vehicle is standing on a steep slope.
- The vehicle moved several times. In these cases, the brake warning light comes on, the AUTO HOLD indicator changes from green to white, and a warning sounds and a message will appear to inform you that EPB has been automatically engaged. Before driving off again, press foot brake pedal, check the surrounding area near your vehicle and release parking brake manually with the EPB switch.
- If the AUTO HOLD indicator lights up yellow, the Auto Hold is not working properly. In this case, have your vehicle inspected by a professional workshop. Kia recommends to contact an authorized Kia dealer/service partner.
- While operating Auto Hold, you may hear mechanical noise.
 However, it is normal operation noise.

A WARNING

- Press the accelerator pedal slowly when you start the vehicle.
- For your safety, cancel the Auto Hold when you drive downhill or back up the vehicle or park the vehicle.

A CAUTION

If there is a malfunction with the driver's door, engine hood or trunk open detection system, the Auto Hold may not work properly. In this case, have your vehicle inspected by a professional workshop. Kia recommends to contact an authorized Kia dealer/service partner.

Anti-lock brake system (ABS)

A WARNING

ABS (or ESC) will not prevent accidents due to improper or dangerous driving maneuvers. Even though vehicle control is improved during emergency braking, always maintain a safe distance between you and objects ahead. Vehicle speeds should always be reduced during extreme road conditions. The braking distance for cars equipped with an anti-lock braking system (or Electronic Stability Control system) may be longer than for those without it in the following road conditions.

During these conditions the vehicle should be driven at reduced speeds:

- Rough, gravel or snow-covered roads.
- With tire chains installed.

• On roads where the road surface is pitted or has different surface height.

The safety features of an ABS (or ESC) equipped vehicle should not be tested by high speed driving or cornering. This could endanger the safety of yourself or others.

The ABS continuously senses the speed of the wheels. If the wheels are going to lock, the ABS system repeatedly modulates the hydraulic brake pressure to the wheels.

When you apply your brakes under conditions which may 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 it means your ABS is active.

In order to obtain the maximum benefit from your ABS in an emergency situation, do not attempt to modulate your brake pressure and do not try to pump your brakes.

Press your brake pedal as hard as possible or as hard as the situation warrants and allow the ABS to control the force being delivered to the brakes.

* NOTICE

A click sound may be heard in the engine compartment when the vehicle begins to move after the

engine is started. These conditions are normal and indicate that the anti-lock brake system is functioning properly.

- Even with the anti-lock brake system, your vehicle still requires sufficient stopping distance. Always maintain a safe distance from the vehicle in front of you.
- Always slow down when cornering. The anti-lock brake system cannot prevent accidents resulting from excessive speeds.
- On loose or uneven road surfaces, operation of the anti-lock brake system may result in a longer stopping distance than for vehicles equipped with a conventional brake system.



▲ CAUTION

- If the ABS warning light is on and stays on, you may have a problem with the ABS. In this case, however, your regular brakes will work normally.
- The ABS warning light will stay on for approximately 3 seconds after the ignition switch is ON. During that time, the ABS will go through selfdiagnosis and the light will go off if everything is normal. If the light stays on, you may have a problem with your ABS. In this

case, have the system checked by a professional workshop. Kia recommends to visit an authorized Kia dealer/service partner.

A CAUTION

- When you drive on a road having poor traction, such as an icy road, and operate your brakes continuously, the ABS will be active continuously and the ABS warning light may illuminate. Pull your car over to a safe place and stop the engine.
- Restart the engine. If the ABS warning light is off, then your ABS system is normal. Otherwise, you may have a problem with the ABS. In this case, have the system checked by a professional workshop. Kia recommends to visit an authorized Kia dealer/ service partner.

* NOTICE

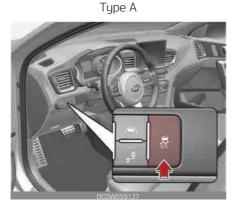
When you jump start your vehicle because of a drained battery, the engine may not run as smoothly and the ABS warning light may turn on at the same time. This happens because of the low battery voltage. It does not mean your ABS is malfunctioning.

• Do not pump your brakes!

• Have the battery recharged before driving the vehicle.

Electronic Stability Control (ESC)

The Electronic Stability Control (ESC) system is designed to stabilize the vehicle during cornering maneuvers. ESC checks where you are steering and where the vehicle is actually going.







ESC applies the brakes at individual wheels and intervenes in the engine

management system to stabilize the vehicle.

A WARNING

Never drive too fast for the road conditions or too quickly when cornering. Electronic stability Control (ESC) will 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 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 conditions.

The Electronic Stability Control (ESC) system is an electronic system designed to help the driver maintain vehicle control under adverse conditions. It is not a substitute for safe driving practices. Factors including speed, road conditions and driver steering input can all affect whether ESC will be effective in preventing a loss of control. It is still your responsibility to drive and corner at reasonable speeds and to leave a sufficient margin of safety.

When you apply your brakes under conditions which may lock the wheels, you may hear a "tik-tik" sound from the brakes, or feel a

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- 55

corresponding sensation in the brake pedal. This is normal and it means your ESC is active.

* NOTICE

A click sound may be heard in the

engine compartment when the vehicle begins to move after the engine is started. These conditions are normal and indicate that the Electronic Stability Control System is functioning properly.

ESC operation

ESC ON condition

- When the ignition is turned ON, ESC and ESC OFF indicator lights illuminate for approximately 3 seconds, then ESC is turned on.
- Press the ESC OFF button after turning the ignition ON to turn ESC off. (ESC OFF indicator will illuminate). To turn the ESC on, press the ESC OFF button (ESC OFF indicator light will go off).
- When starting the engine, 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 in operation, the ESC indicator light blinks.



you can feel a slight pulsation in the vehicle. This is only the effect of brake control and indicates nothing unusual.

When moving out of the mud or driving on a slippery road, the engine rpm (revolution per minute) may not be increased even if you press the accelerator pedal deeply. This is to maintain the stability and traction of the vehicle and does not indicate a problem.



Type A

Traction Control disabled

Type B

Type B



State 1

Press the ESC OFF button shortly (ESC OFF indicator light and message illuminates). At this state, the engine control function does not operate. In other words, the traction control function does not operate but only the brake control function operates.

Type A



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• State 2

Press the ESC OFF button for more than 3 seconds. ESC OFF indicator light and message illuminates and ESC OFF warning chime will sound. At this state, the engine control function and brake control function does not operate. In other words, the vehicle stability control function does not operate any more.

If the ignition switch is placed to the LOCK/OFF position when ESC is off, ESC remains off. Upon restarting the engine, the ESC will automatically turn on again.

Indicator light

ESC indicator light



ESC OFF indicator light



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When ignition switch is turned to ON, the indicator light illuminates, then goes off if the ESC system is operating normally.

The ESC indicator light blinks whenever ESC is operating or illuminates when ESC fails to operate.

ESC OFF indicator light comes on when the ESC is turned off with the button.

A CAUTION

Driving with varying tire or wheel sizes may cause the ESC system to malfunction. When replacing tires, make sure they are the same size as your original tires.

A WARNING

The Electronic Stability Control system is only a driving aid; use precautions for safe driving by slowing down on curved, snowy, or icy roads. Drive slowly and don't attempt to accelerate whenever the ESC indicator light is blinking, or when the road surface is slippery.

ESC OFF usage

When driving

• ESC should be turned on for daily driving whenever possible.

• To turn ESC off while driving, press the ESC OFF button while driving on a flat road surface.

Never press the ESC OFF button while ESC is operating (ESC indicator light blinks).

If ESC is turned off while ESC is operating, the vehicle may slip out of control.

* NOTICE

- When operating the vehicle on a dynamometer, ensure that the ESC is turned off (ESC OFF light illuminated).
- Turning the ESC off does not affect ABS or brake system operation.

A WARNING

Never press the ESC OFF button while ESC is operating. If the ESC is turned off while ESC is operating, the vehicle may go out of control. To turn ESC off while driving, press the ESC OFF button while driving on a flat road surface.

Hill-start assist control (HAC)

Hill start Assist Control is a comfort function. The main intend is to prevent the vehicle from rolling backwards while driving off uphill on an inclined surface. HAC holds the braking pressure builtup by driver during stopping procedure for 2 seconds after releasing brake pedal.

During the pressure-hold period, the driver has enough time to press the accelerator pedal to drive off.

The braking pressure is reduced as soon as the system detects the driver's intention to drive off.

A WARNING

The HAC is usually activated only for 2 seconds. The driver should be careful from the rolling backward causing the accident with behind objects or human, when the driver may feel the unintended rolling backward while driving off on hill due to insufficient brake hold pressure built-up by driver during stopping procedure.

* NOTICE

- The HAC does not operate when the transmission shift lever is in the P (Park) or N (Neutral) position.
- The HAC activates even though the ESC is off but it does not activate when the ESC has malfunctioned.

Vehicle stability management (VSM)

This system provides further enhancements to vehicle stability and steering responses when a vehicle is driving on a slippery road or a vehicle detected changes in coefficient of friction between right wheels and left wheels when braking.

VSM operation

When the VSM is in operation, ESC indicator light (\bigcirc) blinks.

When the vehicle stability management is operating properly, you can feel a slight pulsation in the vehicle. This is only the effect of brake control and indicates nothing unusual.

The VSM does not operate when:

- Driving on bank road such as gradient or incline
- Driving rearward
- ESC OFF indicator light () remains on the instrument cluster
- EPS indicator light remains on the instrument cluster

VSM operation off

If you press the ESC OFF button to turn off the ESC, the VSM will also cancel and the ESC OFF indicator light (🚑) illuminates. 6

To turn on the VSM, press the button again. The ESC OFF indicator light goes out.

Malfunction indicator

The VSM can be deactivated even if you don't cancel the VSM operation by pressing the ESC OFF button. It indicates that a malfunction has been detected somewhere in the Electric Power Steering system or VSM system.

If the ESC indicator light () or EPS warning light remains on, have the system checked by a professional workshop. Kia recommends to visit an authorized Kia dealer/service partner.

* NOTICE

- The VSM is designed to function above approximately 15 km/h (9 mph) on curves.
- The VSM is designed to function above approximately 30 km/h (18 mph) when a vehicle is braking on a split-mu road. The split-mu road is made of surfaces which have different friction forces.

WARNING

 The Vehicle Stability Management system is not a substitute for safe driving practices but a supplementary function only. It is the responsibility of the driver to always check the speed and the distance to the vehicle ahead. Always hold the steering wheel firmly while driving.

- Your vehicle is designed to activate according to the driver's intention, even with installed VSM. Always follow all the normal precautions for driving at safe speeds for the conditions – including driving inclement weather and on a slippery road.
- Driving with varying tire or wheel sizes may cause the VSM system to malfunction. When replacing tires, make sure they are the same size as your original tires.

ESS: Emergency Stop Signal (if equipped)

The Emergency Stop Signal system alerts the driver behind by blinking the stop light when the vehicle suddenly stops or when the ABS activates in a stop. (The system activates when the vehicle speed is over 55km/h and the vehicle deceleration is over 7m/s² or the ABS activates when the vehicle emergency braking.)

When the vehicle speed is under 40 km/h and the ABS deactivates or the sudden stop situation is over, the stop light blinking will stop.

▲ CAUTION

The Emergency Stop Signal system will not work if the hazard warning flasher is already on.

Good braking practices

WARNING

- Whenever leaving vehicle or parking, always set the parking brake as far as possible and fully engage the vehicle's transmission into the park position. Vehicles not fully engaged in park with the parking brake set are at risk for moving inadvertently and injuring yourself or others.
- All vehicles should always have the parking brake fully engaged when parking to avoid inadvertent movement of the car which can injure occupants or pedestrians.
- After parking the vehicle, check to be sure the parking brake is not engaged and that the parking brake indicator light is out before driving away.
- Driving through water may get the brakes wet. They can also get wet when the car is washed. Wet brakes can be dangerous! Your car will not stop as quickly if the brakes are wet. Wet brakes may cause the car to pull to one side. To dry the brakes, apply the

brakes lightly until the braking action returns to normal, taking care to keep the car under control at all times. If the braking action does not return to normal, stop as soon as it is safe to do so and have your vehicle inspected by a professional workshop. Kia recommends to call an authorized Kia dealer/service partner.

- Don't coast down hills with the car out of gear. This is extremely hazardous. Keep the car in gear at all times, use the brakes to slow down, then shift to a lower gear so that engine braking will help you maintain a safe speed.
- Don't "ride" the brake pedal. Resting your foot on the brake pedal while driving can be dangerous because it can result in the brakes overheating and losing their effectiveness. It also increases the wear of the brake components.
- If a tire goes flat while you are driving, apply the brakes gently and keep the car pointed straight ahead while you slow down. When you are moving slowly enough for it to be safe to do so, pull off the road and stop in a safe place.
- Be cautious when parking on a hill. Firmly engage the parking brake and place the shift lever in P (Park). If your car is facing downhill, turn the front wheels

into the curb to help keep the car from rolling. If your car is facing uphill, turn the front wheels away from the curb to help keep the car from rolling. If there is no curb or if it is required by other conditions to keep the car from rolling, block the wheels.

- Under some conditions your parking brake can freeze in the engaged position. This is most likely to happen when there is an accumulation of snow or ice around or near the rear brakes or if the brakes are wet. If there is a risk that the parking brake may freeze, apply it only temporarily while you put the shift lever in P (Park) and block the rear wheels so the car cannot roll. Then release the parking brake.
- Do not hold the vehicle on the upgrade with the accelerator pedal. This can cause the transmission to overheat. Always use the brake pedal or parking brake.

Forward collision-avoidance assist (FCA) (Camera type) (if equipped)

The FCA system is designed to detect and monitor the vehicle ahead in the roadway through camera recognition to warn the driver that a collision is imminent, and if necessary, apply emergency braking.

* Camera type FCA system does not operate for pedestrians in front.

A WARNING

Take the following precautions when using the forward collisionavoidance assist (FCA):

- This system is only a supplemental system and it is not intended to, nor does it replace the need for extreme care and attention of the driver. The sensing range and objects detectable by the sensors are limited. Pay attention to the road conditions at all times.
- NEVER drive too fast in accordance with the road conditions or while cornering.
- Always drive cautiously to prevent unexpected and sudden situations from occurring. FCA does not stop the vehicle completely and does not avoid collisions.

System setting and activation

System setting

The driver can activate the FCA by placing the ignition switch to the ON position and by selecting:

"User Settings → Driver assistance → Forward safety"

- If you select "Active assist", the FCA system activates. The FCA produces warning messages and warning alarms in accordance with the collision risk levels. Also, it controls the brakes in accordance with the collision risk levels.
- If you select "Warning only", the FCA system activates and produces only warning alarms in accordance with the collision risk levels. You should control the brake directly because the FCA system do not control the brake.
- If you select "Off", the FCA system deactivates.

The warning light **D** illuminates on the LCD display, when you cancel the FCA sustem. The driver can monitor the FCA ON/OFF status on the LCD display. Also, the warning light illuminates when the ESC (Electronic Stability Control) is turned off. When the warning light remains ON with the FCA activated, have the system checked by a professional workshop.

Kia recommends to visit an authorized Kia dealer/service partner.

The driver can select the initial warning activation time on the LCD display.

Go to the "User Settings \rightarrow Driver assistance \rightarrow Warning timing \rightarrow Normal/Later".

The options for the initial Forward Collision Warning includes the following:

Normal:

When this condition is selected, the initial Forward Collision Warning is activated normally. This setting allows for a nominal amount of distance between the vehicle ahead before the initial warning occurs.

Later:

When this condition is selected, the initial Forward Collision Warning is activated later than normal. This setting reduces the amount of distance between the vehicle ahead before the initial warning occurs.

Select 'Later' when traffic is light and when driving speed is slow. If the vehicle in front puts on a burst of speed, the driver can notice the warning alarm is early even though the later option is selected.

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Prerequisite for activation

The FCA gets ready to be activated, when the Active Assist or Warning Only under the Forward Safety is selected on the LCD display, and when the following prerequisites are satisfied.

- The ESC is activated.
- The driving speed is over 10km/h. (However, FCA is activated within certain driving speed.)
- When recognizing the vehicle in front. (However, FCA does not activate according to conditions in front and vehicle systems, but it notices only certain warnings.)
- FCA does not operate properly or it only produces a warning alarms in accordance with the driving or vehicle condition.
- If the warning only under the Forward Safety is selected, FCA produces only warning alarms in accordance with the collision risk levels.

A WARNING

- The FCA automatically activates upon placing the ignition switch to the ON position. The driver can deactivate the FCA by canceling the system setting on the LCD display.
- The FCA automatically deactivates upon canceling the ESC. When the ESC is canceled, the FCA cannot be activated on the LCD display.

The FCA warning light will illuminate, but it does not indicate a malfunction of the system.

• Set or cancel FCA with controlling switches on steering wheel after stopping the vehicle in the safe place for your safety.

FCA warning message and system control

The FCA produces warning messages and warning alarms in accordance with the collision risk levels of followings like vehicle's sudden braking in front or lack of vehicle to vehicle distance. Also, it controls the brakes in accordance with the collision risk levels.

Collision Warning (1st warning)



• The warning message appears on the LCD display with the warning alarms.

- The FCA controls the brakes within certain limit to release shock from the collision.
 - If you select "Warning only", the FCA system activates and produces only warning alarms in accordance with the collision risk levels. You should control the brake directly because the FCA system do not control the brake.

Emergency braking (2nd warning)



- The warning message appears on the LCD display with the warning alarms.
- The FCA controls the brakes within certain limit to release shock from the collision.
 The FCA controls the maximum brakes just before the collision.
 - If you select "Warning only", the FCA system activates and produces only warning alarms in accordance with the collision risk levels. You should control the brake directly because the FCA system do not control the brake.

Brake operation

- In an urgent situation, the braking system enters into the ready status for prompt reaction to assist the driver in depressing the brake pedal.
- The FCA provides additional braking power for optimum braking performance, when the driver depresses the brake pedal.
- The braking control is automatically deactivated, when the driver sharply depresses the accelerator pedal, or when the driver abruptly operates the steering wheel.
- The braking control is automatically canceled, when risk factors disappear.

CAUTION

The driver should always pay great caution to vehicle operation, even though there is no warning message or warning alarm.

WARNING

The FCA cannot avoid all collisions. The FCA might not completely stop the vehicle before collision, due to ambient, weather and road conditions. The driver has the responsibility to drive safely and control the vehicle.

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A WARNING

The FCA operates in accordance with the risk levels, such as the distance from the vehicle in front, the speed of the vehicle in front, and the driver's vehicle operation. For the system to activate, do not attempt risky driving.

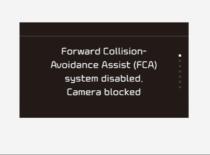
FCA front view camera sensor

In order for the FCA system to operate properly, always make sure the sensor is clean and free of dirt, snow, and debris.



Dirt, snow, or foreign substances on the lens may adversely affect the sensing performance of the sensor.

Warning message and warning light



When the camera is blocked with dirt, snow, or debris, the FCA operation may temporarily stop. In this case, the warning message appears to warn the driver.

This is not a malfunction with the FCA. To operate the FCA again, remove the foreign substances.

The FCA may not properly operate in an area (e.g. open terrain), where any substances are not detected after turning ON the engine.

A WARNING

The FCA system may not activate without any warning messeges according to driving condition, traffic on the road, weather, road condition, etc.

* NOTICE



- Doing so may adversely affect the sensing performance of the sensor.
- Always keep the sensor clean and free of dirt and debris.
- Be careful not to apply unnecessary force on the sensor. If the sensor is forcibly moved out of proper alignment, the FCA system may not operate correctly. In this case, a warning message may not be displayed. In this case, have the vehicle inspected by a professional workshop. Kia recommends to visit an authorized Kia dealer/service partner.
- Use only genuine parts to repair or replace a damaged.
- Do not tint the window or install stickers, accessories around the inside mirror where the camera is installed.
- Make sure the frontal camera installation point does not get wet.
- Do not impact or arbitrarily remove any radar/camera components.
- Do not place reflective objects (white paper or mirror etc.) on the crash pad.

The system may activate unnecessarily due to reflect of the sunlight.

- Excessive audio volume may disturb the sound of the system warning alarm.
- For more cautions for the camera sensor, refer to "Lane Keeping

Assist (LKA) system (if equipped)" on page 6-126.

System malfunction



- When the FCA is not working properly, the FCA warning light (Sc)) will illuminate and the warning message will appear for a few seconds. After the message disappears, the master warning light (A)) will illuminate. In this case, have the vehicle inspected by a professional workshop. Kia recommends to visit an authorized Kia dealer/service partner.
- The FCA warning message may appear along with the illumination of the ESC warning light.

A WARNING

 The FCA is only a supplemental system for the driver's convenience. The driver should hold the responsibility to control the vehicle operation. Do not solely depend on the FCA system.

Rather, maintain a safe braking distance, and, if necessary, depress the brake pedal to lower the driving speed.

 In certain instances and under certain driving conditions, the FCA system may activate unintentionally.

Also, in certain instances the front camera recognition system may not detect the vehicle ahead. The FCA system may not activate and the warning message will not be displayed.

- The FCA may unnecessarily produce the warning message and the warning alarms. Also, due to the sensing limitation, the FCA may not produce the warning message and the warning alarm at all.
- When there is a malfunction with the FCA, the braking control does not operate upon detecting a collision risk even with other braking systems normally operating.
- The FCA operates only for the vehicle in front, while driving forward. It does not operate for any animals or vehicles in the opposite direction.
- The FCA does not recognize the vehicle, which horizontally drives across the crossroad, or the vehicle, which is parked in the horizontal direction.

- If the vehicle in front stops suddenly, you may have less control of the brake system. Therefore, always keep safe distance between your vehicle and the vehicle in front of you.
- The FCA system may activate during braking and the vehicle may stop suddenly. And the load in the vehicle may endanger passengers. Therefore, always be mindful of the load volume in the vehicle.
- The FCA system may not activate if the driver applies the brake pedal to avoid risk of collision.
- The FCA system does not operate when the vehicle is in reverse. In these cases, you must maintain a safe braking distance, and if necessary, depress the brake pedal to reduce the driving speed in order to maintain a safe distance.
- The regular braking function will operate normally even if There is a problem with the FCA brake control system or other functions. In this case, the braking control will not operate in the risk of a collision.
- The FCA system may not activate according to driving condition, traffic on the road, weather, road condition, etc.
- The FCA system may not activate to all types of vehicles.

Limitation of the system

The FCA is an assistant system for a driver in a certain risky driving condition and it does not take every responsibility for all risks from driving condition.

The FCA monitors the driving situations through the camera sensor. Thus, for a situation out of the sensing range, the FCA may not normally operate. The driver should pay great caution in the following situations. The FCA operation may be limited.

Recognizing vehicles

- The camera is contaminated with foreign substances.
- It heavily rains or snows.
- There is interruption by electric waves.
- The vehicle in front has a narrow body. (i.e. motor cycle and bicycle)
- The driver's view is unclear due to the backlight, the reflected light, or darkness.
- The camera cannot contain the full image of the vehicle in front.
- The vehicle in front is a special vehicle, such as a heavily-loaded truck or a trailer.
- The outside brightness is greatly changed, such as entering/exiting the tunnel.
- The vehicle driving is unstable.
- The camera sensor recognition is limited.

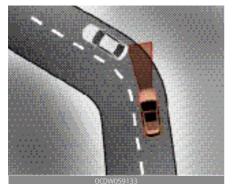
- The driver's field of view is not well illuminated (either too dark or too much reflection or too much backlight that obscures the field of view)
- The vehicle in front is driving erratically
- The vehicle is driven near areas containing metal substances such as a construction zone, railroad, etc.
- Backlight is reflected in the direction of the vehicle (including front light from the vehicle ahead)
- Moisture on the windshield is not completely removed or frozen.
- The weather is misty.
- The vehicle in front does not turn ON the rear lights, does not have rear lights, has asymmetric rear lights, or has rear lights out of angle.
- The vehicle is on unpaved or uneven rough surfaces, or roads with sudden gradient changes.
- The vehicle is moving under ground level or inside a building.
- If a sudden change in the sensor recognition takes place while passing through the speed bump,
- When the vehicle is severely shaken,
- When driving around circular intersection after the vehicle in front,
- If the front of the camera lens is contaminated by front glass tinting, film, water repellent



coating, damage on glass, foreign matter (sticker, insect, etc.)

- The camera or camera lens is damaged.
- If the headlights of the vehicle are not used at night or in the tunnel section, or the light is too weak.
- If street light or the light of the vehicle coming from the opposite is reflected or when sunlight is reflected by the water on the road surface.
- When the back light is projected in the direction of the vehicle's motion (including the headlights of vehicles)
- Road sign, shadow on the road, tunnel entrance, toll gate, partial pavement
- If the windshield has moisture on its surface or if windshield freezes,
- Driving in the fog.
- When objects are out of the sensing range of the camera.

Driving on a curve



The FCA performance decreases while driving on a curve. The FCA may not recognize the vehicle in front even in the same lane. It may unnecessarily produce the warning message and the warning alarm, or it may not produce the warning message and the warning alarm at all.

While driving on a curve, pay great caution, and, if necessary, depress the brake pedal.



While driving on a curve, the FCA may recognize the vehicle in front in the next lane. Pay great caution, and, if necessary, depress the brake pedal.

Or, depress the accelerator pedal to maintain the driving speed. Always, take a look around the vehicle for your safety.

Driving on a slope

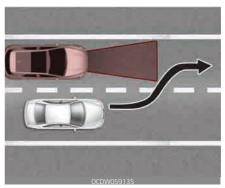


The FCA performance decreases while driving upward or downward on a slope, not recognizing the vehicle in front in the same lane. It may unnecessarily produce the warning message and the warning alarm, or it may not produce the warning message and the warning alarm at all.

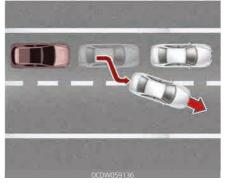
When the FCA suddenly recognizes the vehicle in front while passing over a slope, you may experience sharp deceleration.

Always keep your eyes forward while driving upward or downward on a slope, and, if necessary, depress the brake pedal.

Changing lanes

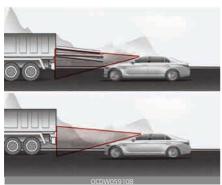


Even though the vehicle in the next lane enters into your lane, it may not be recognized by the FCA, until it enters the FCA sensing range. Especially when the vehicle in the next lane abruptly enters into your lane, it is more likely not be recognized. Always pay great attention.



When the stopped vehicle in front gets out of the lane, it may not be recognized by your FCA. Always pay great attention.

Recognizing the vehicle



When the vehicle in front has heavy loading extended rearward, or when the vehicle in front has higher ground clearance, it may induce a hazardous situation.

A WARNING



- Cancel the FCA in the User Settings on the LCD display, before towing another vehicle. While towing, the brake application may adversely affect your vehicle safety.
- Pay great caution to the vehicle in front, when it has heavy loading extended rearward, or when it has higher ground clearance.
- The sensor only detects a vehicle ahead on the road, not carts, bicycles, motorcycles, luggage bags, or strollers.
- The FCA does not operate in a certain situation. Thus, never testoperate the FCA against a person or an object. It may cause a severe injury or even death.

• When replacing or reinstalling the windshield, or camera after removal, have the vehicle inspected by a professional workshop. Kia recommends to visit an authorized Kia dealer/ service partner.

* NOTICE

The system may temporarily cancel due to the strong electric waves.

Forward collision-avoidance assist (FCA) (Camera+Radar type) (if equipped)

The FCA system is to reduce or to avoid accident risk. It recognizes the distance from the vehicle ahead or the pedestrian through the sensors (i.e. radar and camera), and, if necessary, warns the driver of accident risk with the warning message or the warning alarms.

* Camera+radar type FCA system operates for the vehicle ahead and the pedestrians in front.

A WARNING

Take the following precautions when using the forward collisionavoidance assist (FCA):

- This system is only a supplemental system and it is not intended to, nor does it replace the need for extreme care and attention of the driver. The sensing range and objects detectable by the sensors are limited. Pay attention to the road conditions at all times.
- NEVER drive too fast in accordance with the road conditions or while cornering.
- Always drive cautiously to prevent unexpected and sudden situations from occurring. FCA does not stop the vehicle completely and does not avoid collisions.

System setting and activation

System setting

The driver can activate the FCA by placing the ignition switch to the ON position and by selecting:

"User Settings → Driver assistance → Forward safety"

- If you select "Active assist", the FCA system activates. The FCA produces warning messages and warning alarms in accordance with the collision risk levels. Also, it controls the brakes in accordance with the collision risk levels.
- If you select "Warning only", the FCA system activates and produces only warning alarms in accordance with the collision risk levels. You should control the brake directly because the FCA system do not control the brake.
- If you select "Off", the FCA system deactivates.

The warning light illuminates on the LCD display, when you cancel the FCA system. The driver can monitor the FCA ON/OFF status on the LCD display. Also, the warning light illuminates when the ESC (Electronic Stability Control) is turned off. When the warning light remains ON with the FCA activated, have the system checked by a professional workshop.

Kia recommends to visit an authorized Kia dealer/service partner.

The driver can select the initial warning activation time on the LCD display.

Go to the "User Settings \rightarrow Driver assistance \rightarrow Warning timing \rightarrow Normal/Later".

The options for the initial Forward Collision Warning includes the following:

• Normal:

When this condition is selected, the initial Forward Collision Warning is activated normally. This setting allows for a nominal amount of distance between the vehicle ahead before the initial warning occurs.

• Later:

When this condition is selected, the initial Forward Collision Warning is activated later than normal. This setting reduces the amount of distance between the vehicle ahead before the initial warning occurs.

Select 'Later' when traffic is light and when driving speed is slow. If the vehicle in front puts on a burst of speed, the driver can notice the warning alarm is early even though the later option is selected.

Prerequisite for activation

The FCA gets ready to be activated, when the Active Assist or Warning Only under the Forward Safety is selected on the LCD display, and when the following prerequisites are satisfied.

- The ESC is activated.
- The driving speed is over 10km/h. (However, FCA is activated within certain driving speed.)
- When recognizing the vehicle or the pedestrian in front. (However, FCA does not activate according to conditions in front and vehicle systems, but it notices only certain warnings.)
- FCA does not operate properly or it only produces a warning alarms in accordance with the driving or vehicle condition.
- If the warning only under the Forward Safety is selected, FCA produces only warning alarms in accordance with the collision risk levels.

A WARNING

- The FCA automatically activates upon placing the ignition switch to the ON position. The driver can deactivate the FCA by canceling the system setting on the LCD display.
- The FCA automatically deactivates upon canceling the ESC. When the ESC is canceled, the FCA cannot be

activated on the LCD display. The FCA warning light will illuminate, but it does not indicate a malfunction of the system.

• Set or cancel FCA with controlling switches on steering wheel after stopping the vehicle in the safe place for your safety.

FCA warning message and system control

The FCA produces warning messages and warning alarms in accordance with the collision risk levels of followings like vehicle's sudden braking in front or lack of vehicle to vehicle distance or collision to pedestrians. Also, it controls the brakes in accordance with the collision risk levels.

Collision Warning (1st warning)



• The warning message appears on the LCD display with the warning alarms.

- The FCA controls the brakes within certain limit to release shock from the collision.
 - If you select "Warning only", the FCA system activates and produces only warning alarms in accordance with the collision risk levels. You should control the brake directly because the FCA system do not control the brake.

Emergency braking (2nd warning)



- The warning message appears on the LCD display with the warning alarms.
- The FCA controls the brakes within certain limit to release shock from the collision.
 The FCA controls the maximum brakes just before the collision.
 - If you select "Warning only", the FCA system activates and produces only warning alarms in accordance with the collision risk levels. You should control the brake directly because the FCA system do not control the brake.

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Brake operation

- In an urgent situation, the braking system enters into the ready status for prompt reaction to assist the driver in depressing the brake pedal.
- The FCA provides additional braking power for optimum braking performance, when the driver depresses the brake pedal.
- The braking control is automatically deactivated, when the driver sharply depresses the accelerator pedal, or when the driver abruptly operates the steering wheel.
- The braking control is automatically canceled, when risk factors disappear.

A CAUTION



The driver should always pay great caution to vehicle operation, even though there is no warning message or warning alarm.

A WARNING

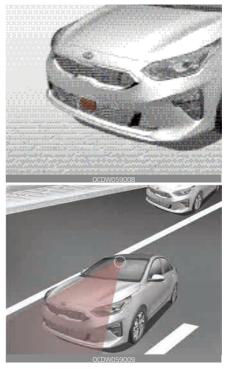
The FCA cannot avoid all collisions. The FCA might not completely stop the vehicle before collision, due to ambient, weather and road conditions. The driver has the responsibility to drive safely and control the vehicle.

A WARNING

The FCA operates in accordance with the risk levels, such as the distance from the vehicle/passer- by in front, the speed of the vehicle/passerby in front, and the driver's vehicle operation.

For the system to activate, do not attempt risky driving.

Sensor to detect the distance from the vehicle in front (front radar)



In order for the FCA system to operate properly, always make sure

the sensor cover or sensor is clean and free of dirt, snow, and debris.

Dirt, snow, or foreign substances on the lens may adversely affect the sensing performance of the sensor.

Warning message and warning light

Forward Collision Avoidance Assist (FCA) system disabled. Radar blocked

When the sensor cover is blocked with dirt, snow, or debris, the FCA operation may temporarily stop. In this case, the warning message appears to warn the driver.

This is not a malfunction with the FCA. To operate the FCA again, remove the foreign substances.

The FCA may not properly operate in an area (e.g. open terrain), where any substances are not detected after turning ON the engine.

A WARNING

The FCA system may not activate without any warning messeges according to driving condition, traffic on the road, weather, road condition, etc.

* NOTICE

- Do not install any accessories, such as license plate molding or sticker, on the sensor area. Nor arbitrarily replace the bumper. Those may adversely affect the sensing performance.
- Always keep the sensor/bumper area clean.
- Use only soft clothes to wash the vehicle. Also, do not spray highlypressurized water on the sensor installed on the bumper.
- Be careful not to apply unnecessary force on the frontal sensor area. When the sensor moves out of the correct position due to external force, the system may not normally operate even without the warning light or message. In this case, have the vehicle inspected by a professional workshop. Kia recommends to visit an authorized Kia dealer/ service partner.
- Use only the genuine Kia sensor cover. Do not arbitrarily apply paint on the sensor cover.
- Do not tint the window or install stickers, accessories around the inside mirror where the camera is installed.
- Make sure the frontal camera installation point does not get wet.

- Do not impact or arbitrarily remove any radar/camera components.
- Do not place reflective objects (white paper or mirror etc.) on the crash pad.

The system may activate unnecessarily due to reflect of the sunlight.

- Excessive audio volume may disturb the sound of the system warning alarm.
- For more cautions for the camera sensor, refer to "Lane Keeping Assist (LKA) system (if equipped)" on page 6-126.

System malfunction



 When the FCA is not working properly, the FCA warning light (>>>>) will illuminate and the warning message will appear for a few seconds. After the message disappears, the master warning light (A>>>) will illuminate. In this case, have the vehicle inspected by a professional workshop. Kia recommends to visit an authorized Kia dealer/service partner.

• The FCA warning message may appear along with the illumination of the ESC warning light.

A WARNING

- The FCA is only a supplemental system for the driver's convenience. The driver should hold the responsibility to control the vehicle operation. Do not solely depend on the FCA system. Rather, maintain a safe braking distance, and, if necessary, depress the brake pedal to lower the driving speed.
- In certain instances and under certain driving conditions, the FCA system may activate unintentionally. This initial warning message appears on the LCD display with a warning chime. Also, in certain instances the front radar sensor or camera recognition system may not detect the vehicle, pedestrian or cyclist (if equipped) ahead. The FCA system may not activate and the warning message will not be displayed.
- The FCA may unnecessarily produce the warning message and the warning alarms. Also, due to the sensing limitation, the FCA may not produce the warning

message and the warning alarm at all.

- When there is a malfunction with the FCA, the braking control does not operate upon detecting a collision risk even with other braking systems normally operating.
- The FCA operates only for the vehicle / pedestrian in front, while driving forward. It does not operate for any animals or vehicles in the opposite direction.
- The FCA does not recognize the vehicle, which horizontally drives across the crossroad, or the vehicle, which is parked in the horizontal direction.
- If the vehicle in front stops suddenly, you may have less control of the brake system. Therefore, always keep safe distance between your vehicle and the vehicle in front of you.
- The FCA system may activate during braking and the vehicle may stop suddenly. And the load in the vehicle may endanger passengers. Therefore, always be mindful of the load volume in the vehicle.
- The FCA system may not activate if the driver applies the brake pedal to avoid risk of collision.
- The FCA system does not operate when the vehicle is in reverse. In these cases, you must maintain a safe braking distance, and if

necessary, depress the brake pedal to reduce the driving speed in order to maintain a safe distance.

- The regular braking function will operate normally even if There is a problem with the FCA brake control system or other functions. In this case, the braking control will not operate in the risk of a collision.
- The FCA system may not activate according to driving condition, traffic on the road, weather, road condition, etc.
- The FCA system may not activate to all types of vehicles.

Limitation of the system

The FCA is an assistant system for a driver in a certain risky driving condition and it does not take every responsibility for all risks from driving condition.

The FCA monitors the driving situations through the radar and the camera sensor. Thus, for a situation out of the sensing range, the FCA may not normally operate. The driver should pay great caution in the following situations. The FCA operation may be limited.

Recognizing vehicles

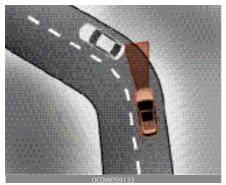
The sensor may be limited when:

- The radar sensor or camera is blocked with a foreign object or debris.
- The camera lens is contaminated due to tinted, filmed or coated windshield, damaged glass, or stuck of foreign matter (sticker, bug, etc.) on the glass
 - Inclement weather such as heavy rain or snow obscures the field of view of the radar sensor or camera.
 - There is interference by electromagnetic waves.
- There is severe irregular reflection from the radar sensor.
- The radar/camera sensor recognition is limited.
- The vehicle in front is too small to be detected (for example a motorcycle etc.).
- The vehicle in front is an oversize vehicle or trailer that is too big to be detected by the camera recognition system (for example a tractor trailer, etc.)
- The camera's field of view is not well illuminated (either too dark or too much reflection or too much backlight that obscures the field of view)
- The vehicle in front does not have their rear lights or their rear lights does not turned ON or their rear lights are located unusually.
- The outside brightness changes suddenly, for example when entering or exiting a tunnel

- When light coming from a street light or an oncoming vehicle is reflected on a wet road surface such as a puddle in the road
 - The field of view in front is obstructed by sun glare.
- The windshield glass is fogged up; a clear view of the road is obstructed.
- The vehicle in front is driving erratically.
- The vehicle is on unpaved or uneven rough surfaces, or road with sudden gradient changes.
- The vehicle is driven near areas containing metal substances as a construction zone, railroad, etc.
- The vehicle drives inside a building, such as a basement parking lot.
- The camera does not recognize the entire vehicle in front.
- The camera is damaged.
- The brightness outside is too low such as when the headlamps are not on at night or the vehicle is going through a tunnel.
- The shadow is on the road by a median strip, trees, etc.
- The vehicle drives through a tollgate.
- The windshield glass is fogged up; a clear view of the road is obstructed.
- The rear part of the vehicle in front is not normally visible. (the vehicle turns in other direction or the vehicle is overturned.)

- The adverse road conditions cause excessive vehicle vibrations while driving
- The sensor recognition changes suddenly when passing over a speed bump.
- The vehicle in front is moving vertically to the driving direction.
- The vehicle in front is stopped vertically.
- The vehicle in front is driving towards your vehicle or reversing.
- You are on a roundabout and the vehicle in front circles.

Driving on a curve



The FCA performance decreases while driving on a curve. The FCA may not recognize the vehicle in front even in the same lane. It may unnecessarily produce the warning message and the warning alarm, or it may not produce the warning message and the warning alarm at all. While driving on a curve, pay great caution, and, if necessary, depress the brake pedal.



While driving on a curve, the FCA may recognize the vehicle in front in the next lane. Pay great caution, and, if necessary, depress the brake pedal.

Or, depress the accelerator pedal to maintain the driving speed. Always, take a look around the vehicle for your safety.

Driving on a slope



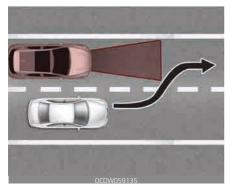
The FCA performance decreases while driving upward or downward

on a slope, not recognizing the vehicle in front in the same lane. It may unnecessarily produce the warning message and the warning alarm, or it may not produce the warning message and the warning alarm at all.

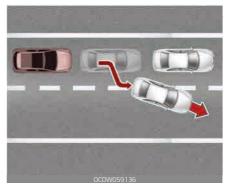
When the FCA suddenly recognizes the vehicle in front while passing over a slope, you may experience sharp deceleration.

Always keep your eyes forward while driving upward or downward on a slope, and, if necessary, depress the brake pedal.

Changing lanes



Even though the vehicle in the next lane enters into your lane, it may not be recognized by the FCA, until it enters the FCA sensing range. Especially when the vehicle in the next lane abruptly enters into your lane, it is more likely not be recognized. Always pay great attention.



When the stopped vehicle in front gets out of the lane, it may not be recognized by your FCA. Always pay great attention.

Recognizing the vehicle



When the vehicle in front has heavy loading extended rearward, or when the vehicle in front has higher ground clearance, it may induce a hazardous situation.

Recognizing pedestrians

• The pedestrian is not fully captured by the camera sensor,

or the pedestrian does not walk in the upright position.

- The pedestrian moves very fast.
- The pedestrian abruptly appears in front.
- The pedestrian wears clothes in the color similar to the background.
- The outside is too bright or too dark.
- The vehicle drives at night or in the darkness.
- There is an item similar to a person's body structure.
- The pedestrian is small.
- The pedestrian has impaired mobility.
- It is difficult to distinguish the pedestrian from the surroundings.
- The sensor recognition is limited.
- There is a group of pedestrians.
- If a sudden change in the sensor recognition takes place while passing through the speed bump,
- When the vehicle is severely shaken,
- When driving around circular intersection after the vehicle in front,
- If the front of the camera lens is contaminated by front glass tinting, film, water repellent coating, damage on glass, foreign matter (sticker, insect, etc.)
- The radar or camera or camera lens is damaged.

- If the headlights of the vehicle are not used at night or in the tunnel section, or the light is too weak
- If street light or the light of the vehicle coming from the opposite is reflected or when sunlight is reflected by the water on the road surface
- When the back light is projected in the direction of the vehicle's motion (including the headlights of vehicles)
- Road sign, shadow on the road, tunnel entrance, toll gate, partial pavement
- If the windshield has moisture on its surface or if windshield freezes,
- Driving in the fog.
- When objects are out of the sensing range of the sensor or radar.
- When the cyclist in front is riding intersected with the driving direction
- When there is any other electromagnetic interference
- When the construction area, rail or other metal object is near the cyclist
- If the bicycle material is not reflected well on the radar

A WARNING

• Cancel the FCA in the User Settings on the LCD display, before towing another vehicle. While towing, the brake

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application may adversely affect your vehicle safety.

- Pay great caution to the vehicle in front, when it has heavy loading extended rearward, or when it has higher ground clearance.
- The sensor only detects pedestrian, not carts, bicycles, motorcycles, luggage bags, or strollers.
- The FCA does not operate in a certain situation. Thus, never testoperate the FCA against a person or an object. It may cause a severe injury or even death.
- When replacing or reinstalling the windshield, front bumper or radar/ camera after removal, have the vehicle inspected by a professional workshop. Kia recommends to visit an authorized Kia dealer/ service partner.

* NOTICE

The system may temporarily cancel due to the strong electric waves.

Cruise control system (if equipped)

The cruise control system allows you to program the vehicle to maintain a constant speed without depressing the accelerator pedal.

This system is designed to function above approximately 30 km/h (20 mph).

A WARNING

- If the cruise control is left on, (CRUISE indicator light in the instrument cluster illuminated) the cruise control can be switched on accidentally. Keep the cruise control system off (CRUISE indicator light OFF) when the cruise control is not in use, to avoid inadvertently setting a speed.
- Use the cruise control system only when traveling on open highways in good weather.
- Do not use the cruise control when it may not be safe to keep the car at a constant speed, for instance, driving in heavy or varying traffic, or on slippery (rainy, icy or snowcovered) or winding roads or over 6% uphill or downhill roads.
- Pay particular attention to the driving conditions whenever using the cruise control system.

▲ CAUTION

During cruise-speed driving of a manual transmission vehicle, do not shift into neutral without depressing the clutch pedal, since the engine will be overrevved. If this happens, depress the clutch pedal or release the cruise control ON-OFF switch.

* NOTICE



During normal cruise control operation, when the SET switch is activated or reactivated after applying the brakes, the cruise control will energize after approximately 3 seconds. This delay is normal.

* NOTICE

To activate cruise control, depress the brake pedal at least once after turning the ignition switch to the ON position or starting the engine. This is to check if the brake switch which is important part to cancel cruise control is in normal condition.

Cruise control switch



- O: Cancels cruise control operation.
- CRUISE: Turns cruise control system on or off.
- RES+: Resumes or increases cruise control speed.
- SET-: Sets or decreases cruise control speed.

To set cruise control speed



1. Press the CRUISE button on the steering wheel, to turn the system on. The set speed will illuminate.

2. Accelerate to the desired speed, which must be more than 30 km/h (20 mph).

* NOTICE

Manual transmission

For manual transmission vehicles, you should depress the brake pedal at least once to set the cruise control after starting the engine.



3. Move the lever down (to SET-), and release it at the desired speed. The cruise set speed will illuminate. Release the accelerator pedal at the same time. The desired speed will automatically be maintained.

On a steep grade, the vehicle may slow down or speed up slightly while going downhill.

To increase cruise control set speed:



Follow either of these procedures:

- Move the lever up (to RES+) and hold it. Your vehicle set speed will increase by 10 km/h. Release the lever at the speed you want.
- Move the lever up (to RES+) and release it immediately. The cruising speed will increase by 1.0 km/h (1.0 mph) each time you move the lever up (to RES+) in this manner.

To decrease the cruising speed:



Follow either of these procedures:

- Move the lever down (to SET-) and hold it. Your vehicle set speed will decrease by 10 km/h (5 mph). Release the lever at the speed you want to maintain.
- Move the lever down (to SET-) and release it immediately. The cruising speed will decrease by 1.0 km/h (1.0 mph) each time you move the lever down (to SET-) in this manner.

To temporarily accelerate with the cruise control on:

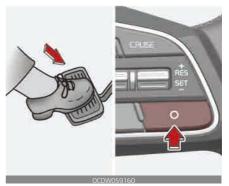
If you want to speed up temporarily when the cruise control is on, depress the accelerator pedal.

Increased speed will not interfere with cruise control operation or change the set speed.

To return to the set speed:

• Take your foot off the accelerator pedal.

To cancel cruise control, do one of the following:



- Depress the brake pedal.
- Depress the clutch pedal if equipped with a manual transmission.
- Press the O button located on the steering wheel.
- Decrease the vehicle speed lower than the memory speed by 20 km/h (12 mph).
- Decrease the vehicle speed to less than approximately 30 km/h (20 mph).

Each of these actions will cancel cruise control operation (the cruise set indicator light will go off), but it will not turn the system off. If you wish to resume cruise control operation, move up the lever (to RES+) located on your steering wheel. You will return to your previously preset speed.

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To resume cruising speed at more than approximately 30 km/h (20 mph):



If any method other than the CRUISE button was used to cancel cruising speed and the system is still activated, the most recent set speed will automatically resume when you move the lever up (to RES+).

It will not resume, however, if the vehicle speed has dropped below approximately 30 km/h (20 mph).

To turn cruise control off, do one of the following

- Press the CRUISE button (the cruise indicator light will be turn off).
- Turn the ignition off.

Both of these actions cancel cruise control operation. If you want to resume cruise control operation, repeat the steps provided in "To set cruise control speed" on the previous page.

Manual speed limit assist (if equipped)

You can set the speed limit when you do not want to drive over a specific speed.

If you drive over the preset speed limit, the warning system operates (set speed limit will blink and chime will sound) until the vehicle speed returns within the speed limit.

* NOTICE

While Manual Speed Limit Assist is in operation, the cruise control system cannot be activated.

To set speed limit:



1. Press the CRUISE button twice on the steering wheel, to turn the system on.



The speed limit indicator light will illuminate.





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- 2. Move the lever down (to SET-).
- 3. Move the lever up (to RES+) or down (to SET-), and release it at the desired speed. Move the lever

up (to RES+) or down (to SET-) and hold it. The speed will increase or decrease by 5 km/h (3 mph). Move the lever up (to RES+) or down (SET-) and release it immediately. The speed will increase or decrease by 1 km/h. The set speed limit will display on the instrument cluster.



The set speed limit will be displayed.

To drive over the preset speed limit you must depress hard on the accelerator pedal (more than approximately 80%) until the kick down mechanism works with a clicking noise. Then the set speed limit will blink and chime will sound until you return the vehicle speed within the speed limit.

* NOTICE

 Depressing the accelerator pedal less than approximately 50%, the vehicle will not speed over the preset speed limit but maintain

6

the vehicle speed within the speed limit.

 A clicking noise heard from the kick down mechanism by depressing the accelerator pedal fully is a normal condition.

To turn off the Manual Speed Limit Assist, do one of the following:



- Press the cruise switch.
- Turn the ignition off.

If you press the cancel O switch once, the set speed limit will cancel, but it will not turn the system off. If you wish to reset the speed limit, move the lever up (to RES+) or down (to SET-) to the desired speed.

A CAUTION

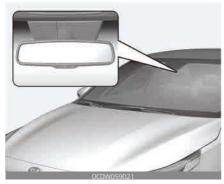


The "---" indicator will blink if there is a problem with Manual Speed Limit Assist system.

If this occurs, have the system checked by a professional workshop.

Kia recommends to visit an authorized Kia dealer/service partner.

Intelligent speed limit warning (if equipped)



The ISLW displays the speed limit Information and overtaking restriction of current road and detail conditional through the instrument cluster and the navigation.

The ISLW detects the traffic signs through a front view camera, which is attached on the upper part of the inner front windshield.

The ISLW also utilizes the navigation and vehicle information to display the speed limit information.

A WARNING

- Intelligent Speed Limit Warning (ISLW) is only a supplemental system and is not always able to correctly display speed limits and overtaking restrictions.
- The driver still holds the responsibility not to exceed the designated speed limit.
- Do not install any accessories and stickers. Do not tint the front

windshield, especially near the rearview mirror.

- The ISLW detects the traffic signs through the camera to display the speed limit information. Therefore, the ISLW may not properly operate, when it is hard to detect the traffic signs. For further details, please refer to "DRIVER'S ATTENTION" on page 6–95.
- Pay extreme caution to keep the camera sensor out of water.
- Do not arbitrarily disassemble the camera assembly, nor apply any impact on the camera assembly.
- Do not locate any reflective objects (i.e. white paper, mirror) over the dashboard. Any light reflection may cause a malfunction of the ISLW.
- The system is not available in all countries.

* NOTICE

In the following case, have the system checked by a professional workshop. Kia recommends to visit an authorized Kia dealer/service partner:

- The windshield glass is replaced.
- The the front view camera or related parts are repaired or removed.

Intelligent Speed Limit Warning activation / deactivation

- The driver can activate the ISLW by selecting "User Settings → Driver Assistance → Intelligent Speed Limit Warning".
- When the ISLW is activated, the symbols appear on the instrument cluster to display the speed limit information and overtaking restriction, when your vehicle passes by the relevant traffic signs.
- When the ISLW is activated in the navigation setting, the above information and the restriction are also displayed on the navigation.
- The ISLW displays the previous speed limit information, right after the ignition switch is placed to the ON position.
- You may find different speed limit information for the same road. The information is displayed depending on the driving situations. Because, traffic signs with additional sign (e.g. rainy, arrow, etc.) are also detected and compared with vehicle internal data (e.g. wiper operation, turn signal, etc.)

Operation

 If a traffic sign that is relevant to your vehicle is passed, the system displays the information of the speed limits and no passing restrictions to the driver.

- When the driver turn on the ignition, the system displays stored information of the speed limit before turn off the ignition.
- Sometimes different speed limits are displayed for the same road. The information displayed depending on the situation.
 Because, traffic signs with additional sign (e.g rainy, arrow...) are also detected and compared with vehicle interior data (e.g wiper operation, turn signal...).
- The system can update the speed limit information without visible speed limit signs in the following situations.
 - When you change your driving direction with right or left or U turning.
 - When vehicle changes roads.
 (e.g. from highway to country road...)
 - When you enter or exit into town or village.

* NOTICE



If speed limit value has the difference between cluster and navigation, check the speed unit setting in navigation.

Display

Main cluster display



 The main cluster displays only the no passing sign or speed limit sign. ISLW cluster display



• The ISLW cluster displays not only the no passing and speed limit sign, but also specific speed limits by certain conditions. No reliable speed limit information



 The symbol is displayed on the instrument cluster and the navigation, when the ISLW does not have any reliable speed limit information.

No passing information



The symbol is displayed on the instrument cluster and the navigation, when the ISLW detects a no overtaking sign.

End of a speed limit



• After passing "end of speed limitation" sign ISLW provides information from navigation

to inform driver of perhaps afterwards applicable speed limit. Unlimited speed (only in Germany)



• The symbol, "end of limitation", is displayed on the instrument cluster for the roads in Germany, which have no speed limit applicable. It is displayed, until the vehicle passes by another speed limit sign.

Warning message

The message ("Speed Limit Warning system disabled. Camera blocked") will appear when camera's field of view is covered by some objects. The system stops until the field of view is normal.

Check the windshield around the camera view area.

If the system does not work normally even though camera's field of view is cleared, have the system checked by a professional workshop. Kia recommends to visit an authorized Kia dealer/service partner. When Intelligent Speed Limit Warning is not working properly, the warning message ("Check Speed Limit Warning system") will come on for a few second. After the message disappears, the master warning light will illuminate.

In this case, have the system checked by a professional workshop.

Kia recommends to visit an authorized Kia dealer/service partner.

The ISLW may not operate or may not provide correct information in the following situations.

When the traffic sign condition is poor

- The traffic sign is located on a sharp curve.
- The traffic sign is improperly positioned (i.e. being turned over, blocked by an object, and dameged).
- Another vehicle blocks the traffic sign.
- The LED light of the traffic sign is broken.
- There is bright light around the traffic sign.
- If road signs do not correspond to the standard and etc.

When external condition is intervened

• Your vehicle drives right after another vehicle.

- The bus or truck, on which the speed sticker is attached, passes by your vehicle.
- Your vehicle drives in an area, which is uncovered by the navigation system.
- There is a malfunction with the navigation.
- Your navigation has not been updated.
- Your navigation is being updated.
- There is something wrong with GPS.
- If the top speed limitations stored in the navigation system are incorrect.
- As a result of incorrect detection by the camera.
- When calibrating the camera immediately after vehicle delivery and etc.

When front visibility is poor

- The weather is bad, such as raining, snowing, and fogging.
- There is dirt, ice or frost on the front windshield, where the camera is installed.
- The camera lens is blocked by an object, such as sticker, paper, or fallen leaf and etc.

DRIVER'S ATTENTION

The driver must be cautious in the below situations for the system may not assist the driver and may not work properly.

- Do not disassemble camera temporarily for tinted window or attaching any types of coatings and accesories. If you disassemble a camera and assemble it again, have the system checked to need a calibration by a professional workshop. Kia recommends to visit an authorized Kia dealer/ service partner.
- Do not locate any reflective objects (i.e. white paper, mirror) over the dashboard. Any light reflection may cause a malfunction of the ISLW.
- Pay extreme caution to keep the camera sensor out of water.
- Do not arbitrarily disassemble the camera assembly, nor apply any impact on the camera assembly.
- The ISLW is only to assist the driver. The driver should pay great caution to the vehicle operation.
- The driver always holds the responsibility of safe driving by following the applicable road traffic rule(s) and regulation(s).
- For specific speed limit signs by certain conditions, the system only detect certain cases like the speed limit sign of a trailer or in snow or rain. Only words signs are not the objects detected by the ISLW.
- The specific speed limit signs by certain conditions are not displayed properly due to lack

of accuracy of the navigation information.

Smart cruise control with stop & go system (if equipped)

The smart cruise control system allows you to program the vehicle to maintain constant speed and distance detecting the vehicle ahead without depressing the accelerator or brake pedal.



- 1. Cruise indicator
- 2. Set speed
- 3. Vehicle-to-vehicle distance

A WARNING

For your safety, please read the owner's manual before using the smart cruise control system.

* NOTICE

To activate smart cruise control, depress the brake pedal at least once after turning the ignition switch to the ON position or starting the engine. This is to check if the brake switch which is important part

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to cancel smart cruise control is in normal condition.

A WARNING

- If the smart cruise control is left on, (cruise indicator in the instrument cluster illuminated) the smart cruise control can be activated unintentionally. Keep the smart cruise control system off (cruise indicator turn off) when the smart cruise control is not used.
- Use the smart cruise control system only when traveling on open highways in good weather.
- Do not use the smart cruise control when it may not be safe to keep the car at a constant speed. For instance.
 - Highway interchange and tollgate
 - Road surrounded by abnormally multiple steel constructions (subway construction, steel tunnel, etc)
 - Parking lot
 - Lanes beside guard rail on a road
 - Slippery road with rain, ice, or snow covered
 - Abrupt curved road
 - Steep hills
 - Windy roads
 - Off roads
 - Roads under construction
 - Rumble strip

- The sensing ability decreases if the level of front and rear vehicle is changed from the factory.
- When driving in heavy traffic or when traffic conditions make it difficult to drive at a constant speed
- When driving on rainy, icy, or snow-covered roads
- When driving with limited view (possibly due to bad weather, such as fog, snow, rain or sandstorm)
- Pay particular attention to the driving conditions whenever using the smart cruise control system.
- The smart cruise control system is not a substitute for safe driving. It is the responsibility of the driver to always check the speed and distance of the vehicle ahead.
- Be careful when driving downhill using the SCC.
- Limited visibility (rain, snow, smog, etc.)
- Cruise function should not be used when the vehicle is being towed to prevent any damage.
- Always set the vehicle speed under the speed limit in your country.
- Unexpected situations may lead to possible accidents. Pay attention continuously to road conditions and driving even when the smart cruise control system is being operated.

Speed setting

To set cruise control speed:



- Press the CRUISE button, to turn the system on.
 The CRUISE indicator in the instrument cluster will illuminate.
- 2. Accelerate to the desired speed. The smart cruise control speed can be set as follows:
- 10 km/h (5mph) ~ 180 km/h (110 mph): when there is no vehicle in front
- 0 km/h (0 mph) ~ 180 km/h (110 mph): when there is a vehicle in front

3. Move the lever down (to SET-), and release it at the desired speed.

The set speed and vehicle to vehicle distance on the LCD screen will illuminate.

4. Release the accelerator pedal. The desired speed will automatically be maintained.

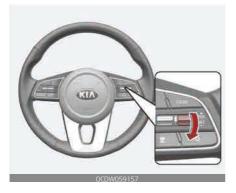
If there is a vehicle in front of you, the speed may decrease to maintain the distance to the vehicle ahead.

On a steep grade, the vehicle may slow down or speed up slightly while going uphill or downhill.

Vehicle speed may decrease on an upward slope and increase on a downward slope.

The speed will be set to 30 km/h when there is a vehicle ahead and your vehicle speed is 0~30 km/h.

Also, the speed will be set to 30 km/h when there is no vehicles ahead and your vehicle speed is 10~30 km/h.



To increase cruise control set speed:



Follow either of these procedures:

• Move the lever up (to RES+), and hold it.

Your vehicle set speed will increase by 10 km/h (5 mph). Release the lever at the speed you want.

• Move the lever up (to RES+), and release it immediately.

The cruising speed will increase by 1.0 km/h (1.0 mph) each time you move the lever up (to RES+) in this manner.

• You can set the speed to 180 km/h (110 mph).

A CAUTION

Check the driving condition before using the toggle switch. Driving speed sharply increases, when you push up and hold the toggle switch. To decrease the crusie control set speed:



Follow either of these procedures:

 Move the lever down (to SET-), and hold it. Your vehicle set speed will

decrease by 10 km/h (5 mph). Release the lever at the speed you want.

- Move the lever down (to SET-), and release it immediately. The cruising speed will decrease by 1.0 km/h (1.0 mph) each time you move the lever down (to SET-) in this manner.
- You can set the speed to 30 km/h (20 mph).

To temporarily accelerate with the cruise control on:

If you want to speed up temporarily when the cruise control is on, depress the accelerator pedal. Increased speed will not interfere with cruise control operation or change the set speed.

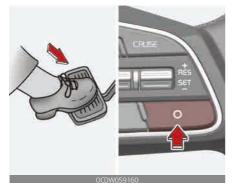
To return to the set speed:

• Take your foot off the accelerator. If you move the lever down (to SET-) at increased speed, the increased cruising speed will be set again.

* NOTICE

Be careful when accelerating temporarily, because the speed is not controlled automatically at this time even if there is a vehicle in front of you.

Smart cruise control will be temporarily canceled when:



Canceled manually

The smart cruise control is temporarily canceled when the brake pedal is depressed or the CANCEL button is pressed. Depress the brake pedal and press the CANCEL button at the same time, when the vehicle is at a standstill. The speed and vehicle to vehicle distance indicator on the cluster is disappeared and the CRUISE indicator is illuminated continuously.

Canceled automatically

- The driver's door is opened.
- The shift lever is shifted to N (Neutral), R (Reverse) or P (Paking).
- The EPB (electronic parking brake) is applied.
- The vehicle speed is over 190 km/h (120 mph).
- The ESC, ABS or TCS is operating.
- The ESC is turned off.
- The sensor or the cover is dirty or blocked with foreign matter.
- The accelerator pedal is continuously depressed for long time.
- The engine speed is in dangerous range.
- The SCC system has malfunctioned.
- When activating the ISG mode.
- When the braking control is operated for Forward Collision-Avoidance Assist (FCA).
- The vehicle is stopped for more than 5 minutes.
- The vehicle stops and goes repeatedly for a long period of time.
- The driver starts driving by pushing the toggle switch up (RES+)/down (SET-) or depressing the accelerator pedal, after the

vehicle is stopped by the Smart Cruise Control system with no other vehicle ahead.

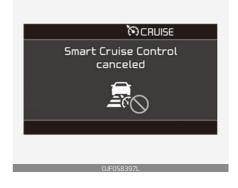
- When the parking brake is locked.
- Engine has some problems.

Each of these actions will cancel the smart cruise control operation. (the set speed and vehicle to vehicle distance on the LCD display will go off.) In a condition the smart cruise control is canceled automatically, the smart cruise control will not resume even though the RES+ or SET-lever is moved.

In a condition the Smart Cruise Control is cancelled automatically when the vehicle stops, the EPB will activate and the parking brake will be locked.

▲ CAUTION

If the smart cruise control is canceled by other than the reasons mentioned, have the system checked by a professional workshop. Kia recommends to visit an authorized Kia dealer/service partner.



A CAUTION

If the system is automatically canceled, the warning chime will sound and a message will appear for a few seconds.

You must adjust the vehicle speed by depressing the accelerator or brake pedal according to the road condition ahead and driving condition. Always check the road conditions. Do not rely on the warning chime.

To resume cruise control set speed:



If any method other than the CRUISE button was used to cancel cruising speed and the system is still activated, the cruising speed will automatically resume when you move the lever up (to RES+).

If you move the lever up (to RES+), the speed will resume to the recently set speed. However, if vehicle speed drops below 10 km/h (5mph), it will resume when there is a vehicle in front of your vehicle.

* NOTICE

To reduce the risk of an accident, always check the road conditions when reactivating the smart cruise control using the RES+ lever to ensure the road conditions permit safe use of the cruise control.

To turn cruise control off:



• Press the CRUISE button. (the CRUISE indicator in the instrument cluster will go off).

When the Smart Cruise Control System is not needed, press the [CRUISE] switch and deactivate the system.

* NOTICE

The mode changes, as below, whenever the CRUISE button is pressed.

System off → Smart Cruise Control

Vehicle to vehicle distance setting

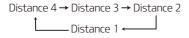
To set vehicle to vehicle distance:



This function allows you to program the vehicle to maintain relative distance to the vehicle ahead without depressing the accelerator pedal or brake pedal.

The vehicle to vehicle distance will automatically activate when the smart cruise control system is on. Select the appropriate distance according to road conditions and vehicle speed.

Each time the button is pressed, the vehicle to vehicle distance changes as follows:



For example, if you drive at 90 km/h (56 mph), the distance maintain as follows;

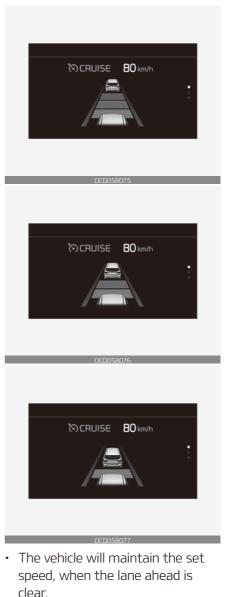
- Distance 4 approximately 52.5 m
- Distance 3 approximately 40 m
- Distance 2 approximately 32.5 m
- Distance 1 approximately 25 m

* NOTICE



The distance is set to the last set distance when the system is used for the first time after starting the engine.





• The vehicle will slow down or speed up to maintain the selected distance, when there is a vehicle

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ahead of you in the lane. (A vehicle will appear in front of your vehicle in the LCD display only when there is an actual vehicle in front of you)

- If the vehicle ahead speeds up, your vehicle will travel at a steady cruising speed after accelerating to the selected speed.
- If distance from the front vehicle has been changed due to accelerating or decelerating of front vehicle, the distance on the LCD may be changed.



When using the Smart Cruise Control System:

- The warning message appears and warning chime sounds if the vehicle is unable to maintain the selected distance from the vehicle ahead.
- If the warning message appears and warning chime sounds, depress the brake pedal to actively adjust the vehicle speed, and the distance to the vehicle ahead.

- Even if the warning message does not appear and warning chime does not sound, always pay attention to the driving conditions to prevent dangerous situations from occurring.
- Playing the vehicle audio system at high volume may offset the system warning sounds.



If the vehicle ahead (vehicle speed: less than 30km/h) disappears to the next lane, the warning chime will sound and a message will appear. Adjust your vehicle speed for vehicles or objects that can suddenly appear in front of you by depressing the brake pedal according to the road condition ahead and driving condition.

In traffic situation



Use switch or pedal to accelerate

- In traffic, your vehicle will stop if the vehicle ahead of you stops. Also, if the vehicle ahead of you starts moving, your vehicle will start as well. However, if the vehicle stops for more than 3 seconds, you must depress the accelerator pedal or push up the toggle switch (RES+) to start driving.
- If you push the smart cruise control toggle switch (RES+ or SET-) while Auto Hold and smart cruise control is operating the Auto Hold will be released regardless of accelerator pedal operation and the vehicle will start to move. The AUTO HOLD indicator changes from green to white. (if equipped with EPB (Electronic Parking Brake))

Radar to detect distance to the vehicle ahead



The sensor detects the distance to the vehicle ahead.

If the sensor is covered with dirt or other foreign matter, the vehicle to vehicle distance control may not operate correctly.

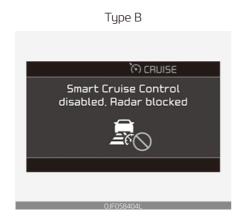
Always keep the area in front of the sensor clean.

Radar check message

Type A

Smart Cruise Control disabled. Radar blocked

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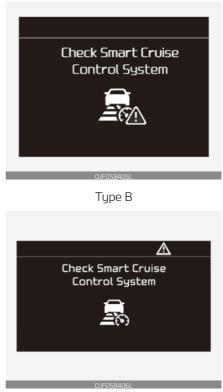
If the radar or cover is dirty or obscured with foreign matter such as snow, this message will appear and it will disappear after for a while.

In this case, the system may not function temporarily, but it does not indicate a malfunction of the smart cruise control System. Clean the radar or cover by using a soft cloth and it will operate normally.

The Smart Cruise Control system may not properly activate, if the radar is totally contaminated, or if any substance is not detected after turning ON the engine (e.g. in an open terrain).

SCC (smart cruise control) malfunction message

Type A



The message will appear when the vehicle to vehicle distance control system is not functioning normally.

In this case, have the system checked by a professional workshop. Kia recommends to visit an authorized Kia dealer/service partner.

- Do not install accessories around the sensor and do not replace the bumper by yourself. It may interfere with the sensor performance.
- Always keep the sensor and bumper clean.
- To prevent sensor cover damage from occurring, wash the car with a soft cloth.
- Do not damage the sensor or sensor area by a strong impact. If the sensor moves slightly off position, the smart cruise control system will not operate correctly without any warning or indicator from the cluster. If this occurs, have the system checked by a professional workshop. Kia recommends to visit an authorized Kia dealer/service partner.
- Use only a genuine Kia sensor cover for your vehicle. Do not paint anything on the sensor cover.

To adjust the sensitivity of smart cruise control

The sensitivity of vehicle speed when following the front vehicle to maintain the set distance can be adjusted. Go to the User Settings Mode(Driver Assistance) and select SCC Reaction. You may select one of the three stages you prefer.

Slow:

Vehicle speed following the front vehicle to maintain the set distance is slower than normal speed.

• Normal:

Vehicle speed following the front vehicle to maintain the set distance is normal

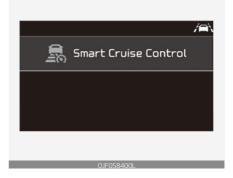
• Fast:

Vehicle speed following the front vehicle to maintain the set distance is faster than normal speed.

* NOTICE

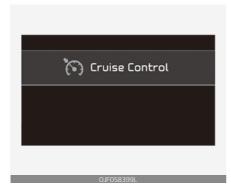
The last selected mode remains In the system.

To convert to cruise control mode:



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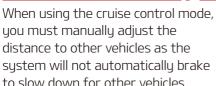


The driver may choose to only use the cruise control mode (speed control function) by doing as follows:

- 1. Turn the smart cruise control system on (the cruise indicator light will be on but the system will not be activated).
- 2. Push the distance to distance switch for more than 2 seconds.
- 3. Choose between "smart cruise control (SCC) mode" and "Cruise control (CC) mode".

When the system is canceled using the CRUISE button or the CRUISE button is used after the engine is turned on, the Smart Cruise Control mode will turn on.

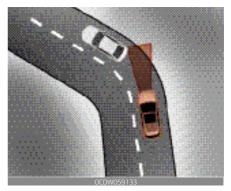
A WARNING



Limitations of the system

The smart cruise control system may have limits to its ability to detect distance to the vehicle ahead due to road and traffic conditions.

On curves



- On curves, the smart cruise control system may not detect a moving vehicle in your lane, and then your vehicle could accelerate to the set speed. Also, the vehicle speed will rapidly down when the vehicle ahead is recognized suddenly.
- Select the appropriate set speed on curves and adjust your vehicle speed by depressing the accelerator or brake pedal according to the road condition ahead and driving condition.



 Your vehicle speed can be reduced due to a vehicle in the adjacent lane. Adjust your vehicle speed by depressing the brake pedal according to the road condition ahead and driving condition. Apply the accelerator pedal and select the appropriate set speed. Check to be sure that the road conditions permit safe operation of the smart cruise control.

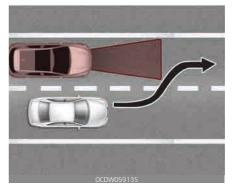
On inclines



 During uphill or downhill driving, the smart cruise control system may not detect a moving vehicle in your lane, and cause your vehicle to accelerate to the set speed. Also, the vehicle speed will rapidly down when the vehicle ahead is recognized suddenly.

 Select the appropriate set speed on inclines and adjust your vehicle speed by depressing the accelerator or brake pedal according to the road condition ahead and driving condition.

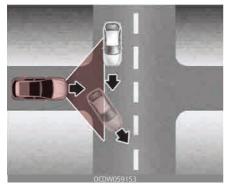
Lane changing



- A vehicle which moves into your lane from an adjacent lane cannot be recognized by the sensor until it is in the sensor's detection range.
- The sensor may not detect immediately when a vehicle cuts in suddenly. Always pay attention to the traffic, road and driving conditions.
- If a vehicle which moves into your lane is slower than your vehicle, your speed may decrease

to maintain the distance to the vehicle ahead.

• If a vehicle which moves into your lane is faster than your vehicle, your vehicle will accelerate to the selected speed.



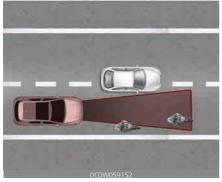
- Your vehicle may accelerate when a vehicle ahead of you disappears.
- When you are warned that the vehicle ahead of you is not detected, drive with caution.

- Narrow vehicles such as motorcycles or bicycles
- · Vehicles offset to one side
- Slow-moving vehicles or suddendecelerating vehicles
- Stopped vehicles
- Vehicles with small rear profile such as trailers with no loads

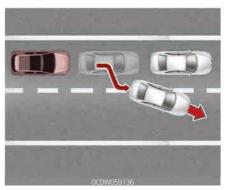
A vehicle ahead cannot be recognized correctly by the sensor if any of following occurs:

- When the vehicle is pointing upwards due to overloading in the trunk(tailgate)
- While making turns by steering
- When driving to one side of the lane
- When driving on narrow lanes or on curves

Adjust your vehicle speed by depressing the brake pedal according to the road condition ahead and driving condition.



Some vehicles ahead in your lane cannot be recognized by the sensor as follows:

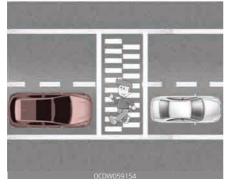


• When vehicles are at a standstill and the vehicle in front of you changes to the next lane, be

Vehicle recognition

careful when your vehicle starts to move because it may not recognize the stopped vehicle in front of you.

In this case, you must maintain a safe braking distance, and if necessary, depress the brake pedal to reduce your driving speed in order to maintain a safe distance.



• Always look out for pedestrians when your vehicle is maintaining a distance with the vehicle ahead.



• Always be cautious for vehicles with higher height or vehicles carrying loads that sticks out to the back of the vehicle.

A WARNING

- The smart cruise control system cannot guarantee the stop for every emergency situation. If an emergency stop is necessary, you must apply the brakes.
- Keep a safe distance according to road conditions and vehicle speed. If the vehicle to vehicle distance is too close during a high-speed driving, a serious collision may result.
- The smart cruise control system cannot recognize a stopped vehicle, pedestrians or an oncoming vehicle. Always look ahead cautiously to prevent unexpected and sudden situations from occurring.
- SCC system may have difficulty in maintaining the correct distance or speed, if the vehicle is driving on a steep incline or towing a trailer.
- When other vehicles are changing lanes in front of you frequently, the smart cruise control system may not operate appropriately. Always look ahead cautiously to prevent unexpected and sudden situations from occurring.
- The smart cruise control system is not a substitute for safe driving practices but a convenience function only. It is the responsibility of the driver to always check the speed and the distance to the vehicle ahead.

6

- Always be aware of the selected speed and vehicle to vehicle distance.
- Always maintain sufficient braking distance and decelerate your vehicle by applying the brakes if necessary.
- As the smart cruise control system may not recognize complex driving situations, always pay attention to driving conditions and control your vehicle speed.
- For safe operation, carefully read and follow the instructions in this manual before use.
- After an engine start, please stop for several seconds. If system initialization is not completed, the SCC does not normally operate.
- After an engine start, if any objects are not detected or the sensor cover is obscured with foreign substances, there is a possibility that the SCC system may not work.
- Below conditions are not allowed: over baggage loading in a trunk(tailgate), suspension remodeling, tire replacement with unauthorized tires or tires with different worn-out and pressure levels.
- Do not use smart cruise control when towing a trailer.

A CAUTION

The smart cruise control system may not operate temporarily due to electrical interference.

Leading vehicle departure alert (if equipped)

The Leading Vehicle Departure Alert system alerts the driver of the departure of the vehicle in front when the vehicle is stopped and the Smart Cruise Control (SCC) system is in activation.

System setting and operating conditions

System setting

With the engine ON, the Leading Vehicle Departure Alert system turns on and gets ready to be activated when the 'User Settings \rightarrow Driver Assistance \rightarrow Driving Assist \rightarrow Leading vehicle departure alert' is selected on the cluster. The system stops operation when the setting is deactivated. However, if the engine is turned off then on again, the system maintains the previous state. UFOSB402L While the Smart Cruise Control (SCC) system is in operation, your vehicle stops behind the vehicle in front when it stops. The message is displayed on the cluster within 3 seconds after the stop and the system will be in the standby position.

Use switch or pedal

to accelerate

SET -

Operating conditions



If the driver does not take action for a certain period of time after the vehicle in front departs, the message is displayed on the cluster. The vehicle departs automatically if the accelerator pedal is depressed or [RES +] or [SET -] switch is activated when there is a vehicle in front.

The Smart Cruise Control (SCC) system is deactivated if the accelerator pedal is depressed or [RES +] or [SET -] switch is activated when there is no vehicle in front.

A WARNING



Always check the front of the vehicle and road conditions before departure.

ISG (Idle Stop and Go) system (if equipped)

Your vehicle may be equipped with the ISG system, which reduces fuel consumption by automatically shutting down the engine, when the vehicle is at a standstill. (For example : red light, stop sign and traffic jam)

The engine starts automatically as soon as the starting conditions are met.

The ISG system is ON whenever the engine is running.

* NOTICE

When the engine automatically starts by the ISG system, some warning lights (ABS, ESC, ESC OFF, EPS or Parking brake warning light) may turn on for a few seconds. This happens because of low battery voltage. It does not mean the system has malfunctioned.

Auto stop

To stop the engine in idle stop mode



With manual transmission

- 1. Decrease the vehicle speed to less than 5 km/h (3 mph).
- 2. Shift into N (Neutral) position.
- 3. Release the clutch pedal.

With automatic transmission

- 1. Decrease the vehicle speed to 0 km/h.
- 2. Shift at D (Drive) / N (Neutral) position.
- 3. Press the brake pedal.

The engine will stop and the green AUTO STOP (A) indicator on the instrument cluster will illuminate.

* NOTICE

• You must reach a speed of at least 5km/h (3 mph) since last idle stop. (With manual transmission) You must reach a speed of at least 5km/h (3 mph) since last idle stop. (With automatic transmission)



* NOTICE

If you open the engine hood in auto stop mode, the following will happen (With automatic transmission):

• The ISG system will deactivate (the light on the ISG OFF button will illuminate).

Auto start

To restart the engine from idle stop mode

With manual transmission

- Press the clutch pedal when the shift lever is in the N (Neutral) position.
- A message "Press clutch pedal for Auto Start" will appear on the LCD display.

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 The engine will start and the green AUTO STOP (A) indicator on the instrument cluster will go out.



With automatic transmission

- 1. Release the brake pedal. or
- 2. When AUTO HOLD is operating, if you release the brake pedal, the engine keeps the stop state. But if you press the accelerator pedal, the engine will start again.

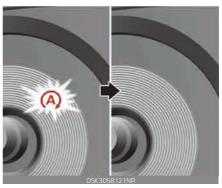
The engine will start and the green AUTO STOP indicator (A) on the instrument cluster will go out.

The engine will also restart automatically without the driver's any actions if the following occurs:

- The fan speed of manual climate control system is set above the 3rd position when the air conditioning is on.
- The fan speed of automatic climate control system is set

above the 5th position when the air conditioning is on.

- When a certain amount of time has passed with the climate control system on.
- When the defroster is on.
- The brake vacuum pressure is low.
- The battery charging status is low.
- The vehicle speed exceeds 6 km/h (4 mph). (With manual transmission)
- The vehicle speed exceeds 1.5 km/h (1 mph). (With automatic transmission)
- You shift the gear to P (park) position or you press the EPB switch in the AUTO HOLD state. (With automatic transmission)



The green AUTO STOP (A) indicator on the instrument cluster will blink for 5 seconds.

Condition of ISG system operation

The ISG system will operate under the following condition:

- The driver's seat belt is fastened.
- The driver's door and engine hood are closed.
- The brake vacuum pressure is adequate.
- The battery is sufficiently charged.
- The outside temperature is between -20°C to 50°C (-4°F to 122°F)
- The engine coolant temperature is not too low.
- The vehicle is not driven on a steep incline. (for automatic transmission vehicle)

* NOTICE

- If the ISG system does not meet the operation condition, the ISG system is deactivated. The light on the ISG OFF button will illuminate and the yellow AUTO STOP (A) indicator on the instrument cluster will illuminate.
- If the light comes on continuously, please check the operation condition.

ISG system deactivation



- If you wish to deactivate the ISG system, press the ISG OFF button. The light on the ISG OFF button will illuminate.
- If you press the ISG OFF button again, the system will be activated and the light on the ISG OFF button will turn off.

ISG system malfunction

The system may not operate when:



The ISG related sensors or system error occurs.

The following will happen:

- The yellow AUTO STOP (A)) indicator on the instrument cluster will stay on after blinking for 5 seconds.
- The light on the ISG OFF button will illuminate.

* NOTICE

- If the ISG OFF button light is not turned off by pressing the ISG OFF button again or if the ISG system continuously does not work correctly, have your vehicle inspected by a professional workshop as soon as possible. Kia recommends to contact an authorized Kia dealer/service partner.
- When the ISG OFF button light comes on, it may stop illuminating after driving your vehicle at approximately 80 km/h for a maximum of two hours and setting the fan speed control knob below the 2nd position. If the ISG OFF button light continues to be illuminated in spite of the procedure, have your vehicle inspected by a professional workshop as soon as possible. Kia recommends to contact an authorized Kia dealer/service partner.

When the engine is in Idle Stop mode, it's possible to restart the engine without the driver taking any action.

Before leaving the car or doing anything in the engine room area, stop the engine by turning the ignition switch to the LOCK/OFF position or removing the ignition key.

* NOTICE

If the AGM battery is reconnected or replaced, ISG function will not operate immediately. If you want to use the ISG function, the battery sensor needs to be calibrated for approximately 4 hours with the ignition off and then, turn the engine on and off 2 or 3 times.

WARNING

Sport system

The sport mode may be selected according to the driver's preference or road condition.



The mode changes whenever the Sport button is pressed.

- NORMAL mode: NORMAL mode provides soft driving and comfortable riding.
- SPORT mode: SPORT mode provides sporty but firm riding.

The driving mode will be set to NORMAL mode when the engine is restarted. if it is in NORMAL/SPORT mode. NORMAL mode will be set, when the engine is restarted.

SPORT mode

SPORT	

SPORT mode manages the driving dynamics by

automatically adjusting the steering effort, and the engine and transmission control logic for enhanced driver performance.

• When SPORT mode is selected by pressing the sport button, the SPORT indicator (orange color) will illuminate.

- Whenever the engine is restarted, the sport will revert back to NORMAL mode. If SPORT mode is desired, re-select SPORT mode from the sport button.
- When SPORT mode is activated:
 - The engine rpm will tend to remain raised over a certain length of time even after releasing the accelerator
 - Upshifts are delayed when accelerating

* NOTICE

In SPORT mode, the fuel efficiency may decrease.

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Lane Following Assist (LFA) system (if equipped)



The Lane Following Assist System is designed to center the vehicle in the chosen lane by using a front mounted camera on top of the windshield.

It can only become active in combination with the Smart Cruise Control (SCC) function and therefore assists the driver in his task to control the lateral and longitudinal movement of the vehicle.

* LFA stands for Lane Following Assist.

A WARNING



- It is the driver's responsibility to operate the steering wheel for safe driving.
- Do not turn the steering wheel hastily if LFA is in work.
- The LFA system assists the steering wheel control over the direction so that the vehicle can stay in the center of the

lane. The LFA system does not automatically control the steering wheel always, which means the driver must not take the hands off the wheel while driving.

 When using the LFA system, always be aware of your surroundings and road conditions that may interrupt or stop the LFA system.

A CAUTION

- Do not attach glass tinting, stickers, accessories to the windshield where the front camera near the indoor mirror is placed.
- The removal or re-assembly of the front camera to attach tinting, stickers, accessories may require the LFA system to be thoroughly inspected and modified. In such case, have the system be inspected by an authorized Kia dealer.
- Inspection or modification may be required when replacing parts related to the windshield or front camera, steering. Have the system be inspected by an authorized Kia dealer.
- Depending on your surroundings and road conditions, the LFA system could fail to recognize the lane and stop working. In turn, extra caution is required while driving with the LFA system on.

- Be sure to check the nonoperating conditions and cautions for the driver before using the LFA system.
- Do not place reflective materials such as white paper or mirror on the crash pad. Sunlight reflections can cause a malfunction in the LFA system.
- Too high volume from the sound system can interrupt the alarming sound from the LFA system.
- Keeping your hands off the wheel while driving will trigger the hands-off warning and deactivate the steering-assist system. Put your hands back on the wheel, then the steering-assist system will be reactivated.
- When driving at a high speed, the steering assist force can become weak and the vehicle can drive out of its lane. Extra caution is required, and comply with the speed limit.
- Attaching an object to the steering wheel could deter steering assistance.
- Attaching an object to the steering wheel could deter the handsoff alarming system.

LFA system operation

To use the Lane Following Assist two steps are necessary:

- 1. the LFA System has to be enabled, and
- 2. the SCC Function has to be activated

With the ignition [ON], select or release the setting from "User setting \rightarrow Driver assistance \rightarrow Driving assist \rightarrow LFA (Lane Following Assist)".

Select the LFA system in the user setting of the instrument panel.

The LFA system status is remembered by the system and therefore does not need to be enabled again for each new journey.



- 1. Press the CRUISE button, to turn the system on. The CRUISE indicator in the instrument cluster will illuminate.
- 2. Accelerate to the desired speed. The smart cruise control speed can be set as follows:
 - 10 km/h (5mph) ~ 180 km/h (110 mph): when there is no vehicle in front

• 0 km/h (0 mph) ~ 180 km/h (110 mph): when there is a vehicle in front



- Move the lever down (to SET-), and release it at the desired speed. The set speed and vehicle to vehicle distance on the screen will illuminate.
- 4. Release the accelerator pedal. The desired speed will automatically be maintained.

Once the system starts working, the indicator light \bigotimes comes on the instrument panel.

The indicator light colors according to the system status are as follows.

Green: Active

White: Standby

For more SCC settings and details refer to "Smart cruise control with stop & go system (if equipped)" on page 6-96.

LFA system activation

If the vehicle is inside the lane with both lanes recognized by the system, and there is no steep steering made by the driver, the LFA system changes into steering assist mode.

The indicator light will come on green, and the system helps the vehicle stay in line by controlling the steering wheel.

When the steering wheel is not controlled temporarily, the indicator light will flash green and changes to white.

Once the LFA system recognizes the lanes, the color of the lane on the screen will change from gray to white.

For more details, refer to "User settings mode" on page 4-75.

A WARNING

The LFA system ensures the vehicle stays in its lane. The LFA system does not guarantee 100% safety. Make sure you make decisions on the road after checking the road conditions and safety matters while driving. Never completely rely on your LFA system.

Warning



If you keep your hands off the wheel while driving with the LFA system assisting the steering, the hands-off warning will be triggered.

If the driver keeps hands off the wheel even with the hands-off warning on, the steering assist is temporarily released automatically.

If you put your hands back on the wheel with the LFA system released, the steering assist will restart.

A CAUTION

- Hands-off warnings may be delayed depending on road conditions. Always keep your hands on the steering wheel while driving.
- Hold the steering wheel tight. Otherwise, the LFA system could misjudge that the driver hands off the wheel, and a hands-off warning may occur.

LFA system malfunction Type A



OCDW0591

The warning message popped up (turned off after a certain period of time)means a problem with the LFA system. In this case, have the system checked by a professional workshop. Kia recommends to visit an authorized Kia dealer/service partner.

CAUTION

- It is the driver's responsibility to operate the steering wheel while driving.
- With the LFA system on, The driver can steer the vehicle by operating the wheel on his own.
- We recommend that the driver turns off the LFA system and operates the steering wheel by himself in the following cases
 - bad weather
 - bad road conditions
 - when frequent operation of the steering wheel is required
 - When towing other vehicle or trailers
- The steering wheel can feel heavy or light if the LFA system is assisting the steering.

Limitation of the system

- If the driver turns on the turn signal light or the emergency warning light to change the lane
 - Operate the turn signal light switch before changing the lane
 - If you change the lane without operating the turn signal lights, steering reaction force of the wheel may occur.
- Once the LFA system is turned on or the lane is changed, the vehicle should be in the center of the road to switch to the steering assist mode. If the driver keeps driving along the lane, the LFA system will not assist the steering.

- When the ESC or VSM is activated, the system does not assist steering.
- When driving on a curved road at a high speed, steering assist mode may not work.
- When driving at a speed faster than 180km/h, steering assist mode may not work.
- When sudden steering is made, the system could be temporarily deactivated.
- If you change the lane in a hurry, the system does not assist the steering.
- If the vehicle suddenly stops, it does not assist the steering.
- If the lane is too narrow or too wide, steering is not assisted.
- If either of the lanes is not recognized, the steering is not assisted.
- If the radius is too small for the curve.

Cautions for the driver

If the lane recognition is difficult or limited for the LFA system as shown below, the driver may need to be careful because it may not operate or may cause unnecessary operation.

Roads or lane markings in bad condition

• When the lane is tainted or invisible

- When the driver cannot see the lane due to rain, snow, dust, sand, oil, puddles, etc
- When roads are set or the colors of the lane and road are not distinctive
- If there is a sign other than the lane near the lane or a mark similar to the lane
- When the lane is not clear or damaged
- If the road is covered in the shadows of objects around the road, such as medians, guard rails, noise walls, and trees
- If the number of lanes increases or decreases, or if the lanes intersect with each other more intensely (tollgate entry section, road section / joining section, etc.)
- When there are two or more lane markings such as a construction section, a designated lane, etc.
- When the lane is crowded such as the construction section or the lane is replaced by some structures
- If there is a road marking such as a zigzag lane, crosswalk mark, or road surface milestone
- When a lane suddenly becomes invisible or disappears from an intersection

The external environment affecting the system

• If the outside brightness of the vehicle suddenly changes, such

as when entering or exiting the tunnel or passing under the bridge

- If the vehicle's headlights are not used at night or in the tunnel, or the brightness of the headlights is too weak
- If there are boundary structures such as tollgate booths and sidewalk blocks
- If it is difficult to distinguish lanes due to the reflection on the wet road made by sunlight, streetlight, and oncoming traffic.
- When the backlight is strongly reflected in the direction of the vehicle
- When driving to the left or right lane by bus lane or on the bus lane
- If there is no enough distance between the front car or if the lane is covered by the car ahead of me
- When the lane change is large, such as a steep curve or a continuous curve
- When passing through speed bump, sudden up / down or left / right slope
- If the vehicle is severely shaken
- When the temperature around the mirror is very high due to direct sunlight

If the front camera clock is of poor quality

• If the windshield of the vehicle and the front part of the lens of the

product are covered with dust, fingerprints, or tinting

- If the clock doesn't work properly due to bad weather such as fog, heavy rain or heavy snow.
- If moisture is not completely removed from the windscreen.
- When placing an object on the crash pad, etc.

Lane Keeping Assist (LKA) system (if equipped)

The Lane Keeping Assist (LKA) system detects the lane markers and road edge on the road with a front view camera at the front windshield, and assists the driver's steering to help keep the vehicle in the lanes.



When the system detects the vehicle straying from its lane or road, it alerts the driver with a visual and audible warning, while applying a slight counter-steering torque, trying to prevent the vehicle from moving out of its lane or road.

A WARNING

- Driver is responsible for being aware of surroundings and steering the vehicle for safe driving practices.
- Do not steer the steering wheel suddenly when the steering wheel is being assisted by the system.
- LKA system helps prevent the driver from moving out of the lane or road unintentionally by assisting the driver's steering. However, the system is just a convenience function and the steering wheel is not always controlled. While driving, the driver should pay attention to the steering wheel.
- The operation of the LKA system can be canceled or not work properly according to road condition and surroundings. Always be cautious when driving.
- Do not disassemble a front view camera temporarily for tinted window or attaching any types of coatings and accessories.
 If you disassemble the camera and assemble it again, take your vehicle to an authorized Kia dealer and have the system checked to need a calibration.
- When you replace the windshield glass, front view camera or related parts of the steering, take your vehicle to an authorized

Kia dealer and have the system checked to need a calibration.

- The system detects lane markers and road edge and controls the steering wheel by a front view camera, therefore, if the lane markers are hard to detect, the system may not work properly. Always be cautious when using the system.
- When the lane markers and road edge are hard to detect, please refer to "DRIVER'S ATTENTION" on page 6-95.
- Do not remove or damage the related parts of LKA system.
- Do not place objects on the crash pad that reflects light such as mirrors, white paper, etc. it may cause malfunction of LKA system if the sunlight is reflected.
- You may not hear warning sound of LKA system because of the excessive audio sound.
- While other beeps such as the seat belt warning sound are in operation and override the LKA alarming system, LKA beeps may not occur.
- If the vehicle speed is high, steering torque for assistance will not be enough to keep your vehicle within the lane. If so, the vehicle may move out of its lane. Obey speed limit when using LKA system.

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- If you attach objects to the steering wheel, the system may not assist steering.
- If you attach objects to the steering wheel, hands off alarm may not work properly.

LKA system operation



To activate/deactivate the LKA:

 With the ignition switch in the ON position, LKA turns on automatically. The indicator

 (initially illuminate white. If you press the LKA button located on the instrument panel on the lower left hand side of the driver, LKA will be turned off and the indicator on the cluster display will go off.

The color of indicator will change depend on the condition of LKA.

• White: Sensor does not detect the lane marker or vehicle speed is less than 60km/h(37mph).

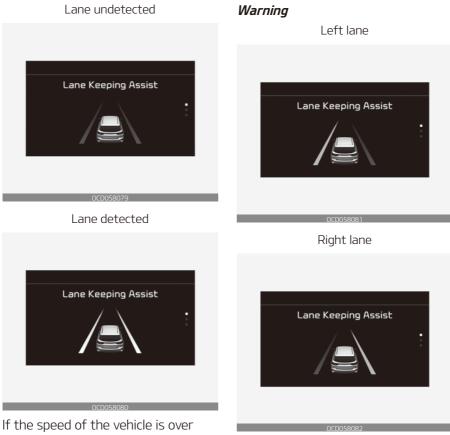
• **Green**: Sensor detects the lane marker or road edge and system is able to control the steering.

LKA system activation

- To see the LKA system screen on the LCD display in the cluster, Tab to the ASSIST mode ().
- For further details, refer to "User settings mode" on page 4-75, [crash pad].
- After LKA system is activated, if both lane markers or road edge are detected, vehicle speed is over 64km/h (40mph) and all the activation conditions are satisfied, a green steering wheel indicator will illuminate and the steering wheel will be controlled.

A WARNING

The Lane Keeping Assist System is a system to help prevent the driver from leaving the lane or road edge. However, the driver should not solely rely on the system but always check the road conditions when driving.



60 km/h (37 mph) and the system detects lane markers, the color changes from gray to white.

If LKA can assist steering, a green steering wheel indicator will illuminate.

If the vehicle leaves a lane or road edge, the lane marker or road edge you cross will blink on the LCD display and the warning sound is provided.

* Haptic specification

If the vehicle leaves a lane, the lane marker you cross will blink on the LCD display with steering wheel vibration warning.

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If the driver takes hands off the steering wheel for several seconds while the LKA is activated, the system will warn the driver.

A WARNING

- The warning message may appear late according to road conditions. Therefore, always have your hands on the steering wheel while driving.
- If you hold the steering wheel lightly, the system would generate hands off warning because LKA system can treat the situation as you do not grab the wheel.

A WARNING

- The driver is responsible for accurate steering.
- Even though the steering is assisted by the system, the driver may control the steering wheel.
- Turn off the system and drive the vehicle in below situations.
 - In bad weather

- In bad road condition
- When the steering wheel needs to be controlled by the driver frequently.
- When towing a vehicle or trailer.
- The steering wheel may feel heavier when the steering wheel is assisted by the system than when it is not.

* NOTICE

- Even though the steering is assisted by the system, the driver may control the steering.
- The steering wheel may feel heavier when the steering wheel is assisted by the system than when it is not.

The system will be canceled when:

- You change lanes with the turn signal.
 - Using the turn signal to change lanes.
 - If you change lanes without the turn signal on, the steering wheel might be controlled.
- LKA system can transit to steering assist mode when the car is near to middle of the lane after system on or the lane was changed. LKA system can not assist steering if the vehicle follows lane marker too close continuously before transition to steering assist mode.

- The control of ESC (Electronic Stability Control) or VSM (Vehicle Stability Management) is activated.
- The steering will not be assisted when your drive fast on a sharp curve.
- The steering will not be assisted when vehicle speed is below 60 km/h (37 mph) and over 180km/h (125 mph).
- The steering will not be assisted when you change lanes or road edge fast.
- The steering will not be assisted when you brake suddenly.
- The steering will not be assisted when the lane is very wide or narrow.
- The steering will not be assisted when only one side lane marker is detected.
- There are more than two lane markers such as a construction area.
- Radius of a curve is too small.
- When you turn steering wheel suddenly, the LKA system will be disabled temporarily.
- Driving on a steep slope or hill.

DRIVER'S ATTENTION

The driver must be cautious in the below situations may not work properly when recognition of the lane marker is poor or limited:

When lane and road condition is poor

- It is difficult to distinguish the lane marker or road edge from road when the lane marker or road edge is covered with dust or sand.
- It is difficult to distinguish the color of the lane marker from road.
- There is something looks like a lane marker
- The lane marker or road edge is indistinct or damaged.
- The number of lanes increases/ decreases or the lane lines are crossing (Driving through a toll plaza/toll gate, merged/divided lane).
- There are more than two lane markers.
- The lane marker is very thick or thin.
- The lane marker or road edge is not visible due to snow, rain, stain, a puddle or other factors.
- A shadow is on the lane marker or road edge because of a median strip, guardrail, noise barriers and others.
- When the lane markers are complicated or a structure substitutes for the lines such as a construction area.
- There are crosswalk signs or other symbols on the road.
- The lane suddenly disappears such as at the intersection.

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- The lane marker or road edge in a tunnel is covered with dirt or oil and etc.
- The lane is very wide or narrow.

When external condition is intervened

- The brightness of outside changes suddenly when entering/existing a tunnel or passing under a bridge.
- The headlamps are not on at night or in a tunnel, or light level is low.
- There is a boundary structure in the roadway.
- The light of street, sun, oncoming vehicle and so on reflects from the water on the road.
- When light shines brightly in the reverse direction you drive.
- Road surface is not even.
- The distance from the vehicle ahead is very short or the vehicle ahead drives hiding the lane line or road edge.
- You drive on a steep grade or a sharp curve.
- The vehicle vibrates heavily.
- The temperature near inside mirror is very high due to direct sun light and etc.

When front visibility is poor

- The lens or windshield is covered by strange materials.
- The sensor cannot detect the lane because of fog, heavy rain or snow.

- The windshield is fogged by humid air in the vehicle.
- Putting something on the crash pad and etc.

A WARNING

The Lane Keeping Assist System is a system to help prevent the driver from leaving the lane. However, the driver should not solely rely on the system but always take the necessary actions for safe driving practices.



 If there is a problem with the system a message will appear.
 If the problem continues the LKA system fail indicator will illuminate.

LKA system fail indicator

The LKA system fail indicator (yellow) will illuminate with an audible warning if the LKA system is not working properly. In this case, have the system checked by a professional workshop. Kia recommends to visit an authorized Kia dealer/service partner.

When there is a problem with the system do one of the following:

- Turn the system on after turning the engine off and on again.
- Check if the ignition switch is in the ON position.
- Check if the system is affected by the weather. (ex: fog, heavy rain, etc.)
- Check if there is foreign matter on the camera lens

If the problem is not solved, have the system checked by a professional workshop. Kia recommends to visit an authorized Kia dealer/service partner

LKA system function change

The driver can change LKA to Lane Departure Warning (LDW) or change the LKA mode from the User Settings Mode on the LCD display.

Lane Keeping Assist

The LKA mode guides the driver to keep the vehicle within the lanes. It rarely controls the steering wheel, when the vehicle drives well inside the lanes. However, it starts to control the steering wheel, when the vehicle is about to deviate from the lanes.

Lane Departure Warning

LDW alerts the driver with a visual and acoustic warning when the system detects the vehicle leaving the lane. In this mode, the steering wheel will not be controlled. When the vehicle's front wheel contacts the inside edge of lane line, LKA issues the lane departure warning.

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Forward collision-avoidance assist-lane-change oncoming function (if equipped)

The Forward Collision-Avoidance Assist-Lane-Change Oncoming function detects the oncoming vehicle with a front view camera at the front wihdshield. And it assists the driver's steering to help avoiding the collision to oncoming vehicle and keeping the vehicle in the lanes, when the vehicle drives over the centerline.

- This function is only a supplemental system. So, it does not replace the need for extreme care and attention of the driver. The sensing range of oncoming vehicle is limited. Pay attention to the road conditions at all times.
- Always drive cautiously to prevent unexpected and sudden situations from occurring. The function does not steer the vehicle completely and is not a collision avoidance system.

Function operation

Driver can activate (or deactivate) the function from the User Settings mode:

"User Settings \rightarrow Driver assistance \rightarrow Forward Collision-Avoidance Assist (FCA)" For further details, refer to "System setting and activation" on page 6-63.

Warning message and function control



- After FCA is on, vehicle speed is over 60 km/h and if the vehicle crosses the centerline with an oncoming vehicle approaching, this warning message appears on the LCD display with audible warning.
- Additionally, steering assist is provided in order to return the car in between the lanes.

A WARNING

- The steering control can not completely avoid the collision to oncoming vehicle. Driver is reponsible for being aware of surroundings and steering the vehicle in a safely manner.
- The function operates within certain conditions, such as the distance and speed from the oncoming vehicle, the driver's vehicle speed, etc.

The function can be cancelled or not work properly according to

road condition and surroundings. Always be cautious when driving.

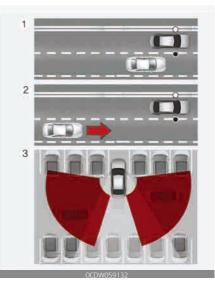
• Never drive deliberately and dangerously to activate the system.

Limitations

- Refer to "The system will be canceled when:" on page 6-130.
- Refer to "Recognizing vehicles" on page 6-69, "Recognizing vehicles" on page 6-79.

Blind-spot Collision Warning (BCW) (if equipped)

The BCW (Blind-Spot Collision Warning) system uses a radar sensor to alert the driver while driving.



It senses the rear side territory of the vehicle and provides information to the driver.

- BCW (Blind-Spot Collision Warning)
 - 1. Blind Spot Area

Warning range is dependent on your vehicle speed. However, if the speed of your vehicle is faster by 10km/h or more than other nearby vehicles, the warning is not operated.

2. Closing at high speed When vehicles are approaching to your vehicle at high speed, the warning is operated. Distance from the approaching vehicle can be seen differently according to the relative speed.

3. RCCW (Rear Cross-Traffic Collision Warning)

When your vehicle moves backward, the sensor detects approaching vehicles to the left or right side direction and warning is operated.

Distance from the approaching vehicle can be seen differently according to the relative speed.

A WARNING

- Always check the road condition while driving for unexpected situations even though the BCW (Blind-Spot Collision Warning) system is operating.
- BCW (Blind-Spot Collision Warning) system is a system made for convenience. Do not solely rely on the system but always pay attention to drive safely.

BCW (Blind-Spot Collision Warning) (if equipped)

Operating conditions



 The indicator on the switch will illuminate when the BCW (Blind-Spot Collision Warning) system switch is pressed with the ignition switch ON. If the vehicle speed exceeds 30 km/h (18.6 mph), the system will activate. If you press the switch again, the switch indicator and system will be turned off.

If the ignition switch is turned OFF and ON the system returns to the previous state.

When the system is not used turn the system off by pressing the switch.

When the system is turned on the warning light will illuminate for 3 seconds on the outside rearview mirror.

• The driver can activate the system by placing the ignition

switch to the ON position and by selecting "User Settings \rightarrow Driver assistance \rightarrow Blind-spot safety"

- The BCW turns on and gets ready to be activated when 'Warning only' is selected. Then, if a vehicle approaches the driver's blind spot area a warning sounds.
- The system is deactivated and the indicator on the BCW button is extinguished when 'Off' is selected.
- If you press BCW button while 'Warning only' is selected the indicator on the button extinguishes and the system deactivates.
- If you press BCW button while the system is cancelled the indicator on the button illuminates and the system activates. In this case, the system returns to the state before the engine turned off.

Warning type

The system will activate when:

- 1. The system is on.
- 2. Vehicle speed is above 30 km/h (18.6 mph)
- 3. Other vehicles are detected in the rear side

A WARNING

 Always check the road condition while driving for unexpected situations even though the BlindSpot Collision Warning System (BCW) is operating.

- The Blind-Spot Collision Warning System (BCW) is a supplemental system to assist you. Do not entirely rely on the system. Always pay attention, while driving, for your safety.
- The Blind-Spot Collision Warning System (BCW) is not a substitute for proper and safe driving. Always drive safely and use caution when changing lanes or backing the vehicle up. The Blind-Spot Collision Warning System (BCW) may not detect every object alongside the vehicle.

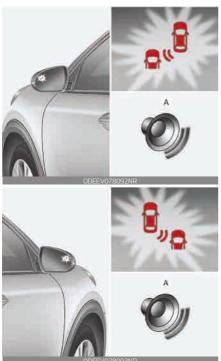
1st stage



If a vehicle is detected within the boundary of the system, a warning light will illuminate on the outside rearview mirror.

If the detected vehicle is not in detection range, the warning will be turned off.

2nd stage



The second stage alarm will activate when:

- 1. The first stage alert is on
- 2. The turn signal is on to change a lane

When the second stage alert is activated, a warning light will be blinking on the outside rearview mirror and an alarm will sound.

If you move the turn signal switch to origin position, the second stage alert will be deactivated.

CAUTION

The alarm function helps alert the driver. Deactivate this function only when it is necessary.

WARNING

- The warning light on the outside rearview mirror will illuminate whenever a vehicle is detected at the rear side by the system. To avoid accidents, do not focus only on the warning light and neglect to see the surrounding of the vehicle.
- Drive safely even though the vehicle is equipped with a Blind-Spot Collision Warning System (BCW). Do not solely rely on the system but check your surrounding before changing lanes or backing the vehicle up.
- The system may not alert the driver in some conditions so always check your surroundings while driving.

A CAUTION

- The driver should always use extreme caution while operating the vehicle, whether or not the warning light on the outside rearview mirror illuminates or there is a warning alarm.
- Playing the vehicle audio system at high volume may offset the Blind-Spot Collision Warning System warning sounds.

• The warning of the Blind-Spot Collision Warning System may not sound while other system's warning sounds.

Detecting sensor

The sensors are located inside the rear bumper.

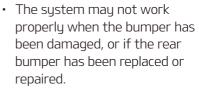






Always keep the rear bumper clean for the system to work properly.

CAUTION



- The sensing range differs somewhat according to the width of the road. When the road is narrow, the system may detect other vehicles in the next lane.
- The system may turn off due to strong electro-magnetic waves.
- Always keep the sensors clean.
- NEVER arbitrarily disassemble the sensor component nor apply any impact on the sensor component.
- Be careful not to apply unnecessary force on the radar sensor or sensor cover. If the sensor is forcibly moved out of proper alignment, the system may not operate correctly. In this case, a warning message may not be displayed. Take your vehicle to a professional workshop and have the sustem checked. Kia recommends to visit an authorized Kia dealer/service partner.
- Do not apply foreign objects such as a bumper sticker or a bumper guard near the radar sensor or apply paint to the sensor area. Doing so may adversely affect the performance of the sensor.

Warning message

Blind-Spot Collision Warning (BCW) system disabled. Radar blocked

The message will appear to notify the driver if there are foreign substances on the surface or inside the rear bumper or it is hot near the rear bumper. The light on the switch and the system will be turned off automatically.

Remove the foreign substance on the rear bumper.

After the foreign substance is removed, if you drive for approximately 10 minutes, the system will work normally.

If the system does not work normally even though the foreign substance, trailer or carrier, or other equipment is removed, take your vehicle to a professional workshop and have the system checked. Kia recommends to visit an authorized Kia dealer/service partner.

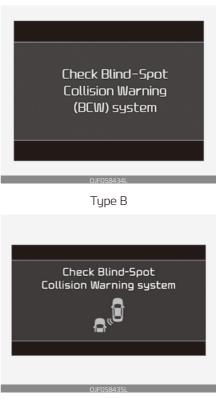
It is possible to get the message with no foreign substance on the rear bumper, for example, when driving in sparse rural or open area, such as desert, where there is insufficient data for operation.

This message may also activate during heavy rain or due to road spray.

In this case, the vehicle does not need service.

When the cargo area or other equipment is being used, turn all functions of the system [OFF].





If the system does not work properly, a warning message will appear and the light on the switch will turn off. The system will turn off automatically.

In this case, have the system checked by a professional workshop. Kia recommends to visit an authorized Kia dealer/service partner.

Limitations of the system

The driver must be cautious in the below situations, because the system may not detect other vehicles or objects in certain circumstances.

- When a trailer or carrier is installed.
- The vehicle drives in inclement weather such as heavy rain or snow.
- The sensor is polluted with rain, snow, mud, etc.
- The rear bumper where the sensor is located is covered with a foreign object such as a bumper sticker, a bumper guard, a bike rack, etc.
- The rear bumper is damaged, or the sensor is out of the original default position.
- The vehicle height gets lower or higher due to heavy loading in a trunk, abnormal tire pressure, etc.
- When the temperature of the rear bumper is high.

- When the sensors are blocked by other vehicles, walls or parkinglot pillars.
- The vehicle drives on a curved road.
- The vehicle drives through a tollgate.
- The road pavement (or the peripheral ground) abnormally contains metallic components (i.e. possibly due to subway construction).
- There is a fixed object near the vehicle, such as a guardrail.
- While going down or up a steep road where the height of the lane is different.
- Driving on a narrow road where trees or grass or overgrown.
- Driving in rural areas where the sensor does not detect another vehicle or structure for an extended period of time.
- Driving on a wet road.
- Driving on a road where the guardrail or wall is in double structure.
- A big vehicle is near such as a bus or truck.
- When the other vehicle approaches very close.
- When the other vehicle passes at a very fast speed.
- While changing lanes.
- If the vehicle has started at the same time as the vehicle next to you and has accelerated.

- When the vehicle in the next lane moves two lanes away from you OR when the vehicle two lanes away moves to the next lane from you.
- A motorcycle or bicycle is near.
- A flat trailer is near.
- If there are small objects in the detecting area such as a shopping cart or a baby stroller.
- If there is a low height vehicle such as a sports car.
- The brake pedal is depressed.
- ESC (Electronic Stability Control) is activated.
- ESC (Electronic Stability Control) malfunctions.
- The tire pressure is low or a tire is damaged.
- The brake is reworked.
- The vehicle abruptly changes driving direction.
- The vehicle makes sharp lane changes.
- The vehicle sharply stops.
- Temperature is extremely low around the vehicle.
- The vehicle severely vibrates while driving over a bumpy road, uneven/bumpy road, or concrete patch.
- The vehicle drives on a slippery surface due to snow, water puddle, or ice.
- The Lane Keeping Assist (LKA) or Lane Departure Warning (LDW) do not operate normally. (if equipped) For more information refer to

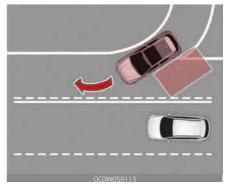
"Lane Keeping Assist (LKA) system (if equipped)" on page 6-126.

Driving on a curve



The BCW systems may not operate properly when driving on a curved road. In certain instances the system may not detect the vehicle in the next lane.

Always pay attention to road and driving conditions, while driving.



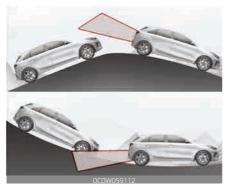
The BCW systems may not operate properly when driving on a curved road. In certain instances the system may recognize a vehicle in the same lane.

Always pay attention to road and driving conditions, while driving.

Driving where the road is merging/ dividing

The BCW systems may not operate properly when driving where the road is merging/dividing. In certain instances the system may not detect the vehicle in the next lane. Always pay attention to road and driving conditions, while driving.

Driving on a slope

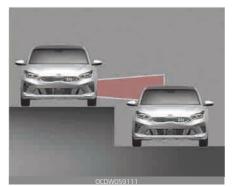


The BCW systems may not operate properly when driving on a slope. In certain instances the system may not detect the vehicle in the next lane.

Also, in certain instances the system may wrongly recognize the ground or structures.

Always pay attention to road and driving conditions, while driving.

Driving where the heights of the lanes are different



The BCW systems may not operate properly when driving where the heights of the lanes are different.

In certain instances, the system may not detect the vehicle on a road with different lane heights (underpass joining section, grade separated intersections, etc.).

Always pay attention to road and driving conditions, while driving.

Driving where there is a structure beside the road



[A]: noise barrier, [B]: guardrail

The BCW systems may not operate properly when driving where there is structure beside the road.

In certain instances, the system may wrongly recognize the structures (noise barriers, guardrail, double guardrail, median strip, bollard, street light, road sign, tunnel wall, etc.) beside the road.

Always pay attention to road and driving conditions, while driving.

RCCW (Rear Cross-Traffic Collision Warning)



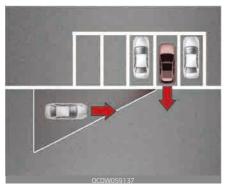
When your vehicle moves backwards from a parking position, the sensor detects approaching vehicles to the left or right side direction and gives information to the driver.

Operating conditions

- Select RCCW (Rear Cross-Traffic Collision Warning) in "User Settings" → "Driver Assistance" → "Blind-Spot Safety" → "Rear Cross-Traffic Safety" on the instrument cluster. The system will turn on and stand by to be activated.
- Select RCCW again, to turn the system off.
- If the vehicle is turned off and on again, the RCCW system will return to the state right before the vehicle was turned off. Turn the RCCW system off when not in use.
- The system is operated when the vehicle speed is below 10km/h with the shift lever in R (Reverse).

 The RCCW (Rear Cross-Traffic Collision Warning) detection range is approximately 0.5m~20m based on side direction. If an approaching vehicle speed is 8 km/h~36 km/h in detection range, The warning is on. However, the system sensing range is different based on conditions. Always pay attention to surrounding.

Warning type







- If an approaching vehicle detected by sensors, the warning is chime and the warning light will blink on the outside rearview mirror.
- If the detected vehicle is out of detection range, moving away in the opposite direction or moving slow, or if the vehicle is right behind your vehicle, if the direction of the other vehicle is not heading towards your vehicle, the warning is canceled.
- The system may not be operating properly due to other factors or circumstances, so always pay attention to your surrounding.
- * If the bumper on either side is blocked by a barrier or vehicles, the system sensing ability may be deteriorated.

The driver can select the initial warning activation time in the User Settings in the LCD display by selecting "User Settings \rightarrow Driver assistance \rightarrow Warning timing". The options for the initial Rear Cross-

Traffic Collision Warning includes the following:

• Normal:

When this condition is selected, the initial Rear Cross-Traffic Collision Warning is activated normally. If this setting feels too sensitive change the option to 'late'.

The warning activation time may feel late if the side/rear vehicle abruptly accelerates.

• Later:

Select this warning activation time when the traffic is light and you are driving in a low speed. However, if you change the warning activation time, the warning activation time of vehicle's other system may also change. Check the warning activation time before changing it.

▲ CAUTION

- When the operation condition of the Rear Cross-Traffic Collision Warning System is satisfied the warning will occur every time a vehicle approaches the side/rear of your stopped (0 km/h vehicle speed) vehicle.
- The system's warning or brake may not operate properly if the left/right of your vehicle's rear bumper is blocked by a vehicle or obstacle.
- The driver should always use extreme caution while operating

the vehicle, whether or not the warning light on the outside rearview mirror illuminates or there is a warning alarm.

- Playing the vehicle audio system at high volume may offset the system's warning sounds.
- The warning of the Rear Cross-Traffic Collision Warning System may not sound while other system's warning sounds.

A WARNING

 When the BCW system is being activated, The warning light on the outside rearview mirror will illuminate whenever a vehicle is detected at the rear side by the system.

To avoid accidents, do not focus only on the warning light and neglect to see the surrounding of the vehicle.

- Drive safely even though the vehicle is equipped with a BCW (Blind-Spot Collision Warning) system. Do not solely rely on the system but check for yourself before changing lanes. The system may not alert the driver in some conditions so always check the surroundings while driving.
- The Blind-Spot Collision Warning system (BCW) and Rear Cross-Traffic Collision Warning (RCCW) are not a substitute for proper

and safe driving practices. Always drive safely and use caution when changing lanes or backing up your vehicle. The Blind-Spot Collision Warning system (BCW) may not detect every object alongside the vehicle.

- The driver is responsible for accurate brake control.
- Always pay extreme caution while driving. The Rear Cross-Traffic Collision Warning System and Rear Cross-Traffic Collision-Avoidance Assist System may not operate properly or unnecessarily operate in accordance with your driving situations.

Detecting sensor

The sensors are located inside the rear bumper.



Type A

Type B



Always keep the rear bumper clean for the system to work properly.

- The system may not work properly when the bumper has been damaged, or if the rear bumper has been replaced or repaired.
- The sensing range differs somewhat according to the width of the road. When the road is narrow, the system may detect other vehicles in the next lane.
- The system may turn off due to strong electro-magnetic waves.
- · Always keep the sensors clean.
- NEVER arbitrarily disassemble the sensor component nor apply any impact on the sensor component.
- Be careful not to apply unnecessary force on the radar sensor or sensor cover. If the sensor is forcibly moved out of proper alignment, the system may not operate correctly.

In this case, a warning message may not be displayed. Take your vehicle to a professional workshop and have the system checked. Kia recommends to visit an authorized Kia dealer/service partner.

 Do not apply foreign objects such as a bumper sticker or a bumper guard near the radar sensor or apply paint to the sensor area.
 Doing so may adversely affect the performance of the sensor.

Warning message

Blind-Spot Collision Warning (BCW) system disabled. Radar blocked

IF058433L

The message will appear to notify the driver if there are foreign substances on the surface or inside the rear bumper or it is hot near the rear bumper. The light on the switch and the system will be turned off automatically.

Remove the foreign substance on the rear bumper.

After the foreign substance is removed, if you drive for

approximately 10 minutes, the system will work normally.

If the system does not work normally even though the foreign substance, trailer or carrier, or other equipment is removed, take your vehicle to a professional workshop and have the system checked. Kia recommends to visit an authorized Kia dealer/service partner.

It is possible to get the message with no foreign substance on the rear bumper, for example, when driving in sparse rural or open area, such as desert, where there is insufficient data for operation.

This message may also activate during heavy rain or due to road spray.

In this case, the vehicle does not need service.

When the cargo area or other equipment is being used, turn all functions of the system [OFF].

Type A

Check Blind-Spot Collision Warning (BCW) system

JF058434I

Type B



If the system does not work properly, a warning message will appear and the light on the switch will turn off. The system will turn off automatically.

In this case, have the system checked by a professional workshop. Kia recommends to visit an authorized Kia dealer/service partner.

A CAUTION

- The system may not work properly if the bumper has been replaced or if a repair work has been done near the sensor.
- The detection area differs according to the roads width. If the road is narrow the system may detect other vehicles in the second next lane.
- On the contrary, if the road is very wide the system may not detect other vehicles in the next lane.

 The system might be turned off due to strong electro-magnetic waves.

Non-operating condition

Outside rearview mirror may not alert the driver when:

- The outside rearview mirror housing is damaged or covered with debris.
- The window is covered with debris.
- The windows are severely tinted.

Limitations of the system

The driver must be cautious in the below situations, because the system may not detect other vehicles or objects in certain circumstances.

- When a trailer or carrier is installed.
- The vehicle drives in inclement weather such as heavy rain or snow.
- The sensor is polluted with rain, snow, mud, etc.
- The rear bumper where the sensor is located is covered with a foreign object such as a bumper sticker, a bumper guard, a bike rack, etc.
- The rear bumper is damaged, or the sensor is out of the original default position.

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- The vehicle height gets lower or higher due to heavy loading in a trunk, abnormal tire pressure, etc.
- When the temperature of the rear bumper is high.
- When the sensors are blocked by other vehicles, walls or parkinglot pillars.
- The vehicle drives on a curved road.
- The road pavement (or the peripheral ground) abnormally contains metallic components (i.e. possibly due to subway construction).
- There is a fixed object near the vehicle, such as a guardrail.
- While going down or up a steep road where the height of the lane is different.
- Driving on a narrow road where trees or grass or overgrown.
- Driving in rural areas where the sensor does not detect another vehicle for an extended period of time.
- Driving on a wet road.
- Driving on a road where the guardrail or wall is in double structure.
- A big vehicle is near such as a bus or truck.
- When the other vehicle approaches very close.
- When the other vehicle passes at a very fast speed.
- While changing lanes.

- If the vehicle has started at the same time as the vehicle next to you and has accelerated.
- When the vehicle in the next lane moves two lanes away from you OR when the vehicle two lanes away moves to the next lane from you.
- A motorcycle or bicycle is near.
- A flat trailer is near.
- If there are small objects in the detecting area such as a shopping cart or a baby stroller.
- If there is a low height vehicle such as a sports car.
- The brake pedal is depressed.
- ESC (Electronic Stability Control) is activated.
- ESC (Electronic Stability Control) malfunctions.
- The tire pressure is low or a tire is damaged.
- The brake is reworked.
- The vehicle sharply stops.
- Temperature is extremely low around the vehicle.
- The vehicle severely vibrates while driving over a bumpy road, uneven/bumpy road, or concrete patch.
- The vehicle drives on a slippery surface due to snow, water puddle, or ice.

Driving where there is a vehicle or structure near



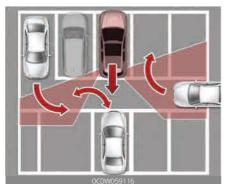
[A]: Structure

The system may not operate properly when driving where there is a vehicle or structure near.

In certain instances, the system may not detect the vehicle approaching from behind and the warning or brake may not operate properly.

Always pay attention to your surrounding while driving.

When the vehicle is in a complex parking environment



The system may not operate properly when the vehicle is in a complex parking environment.

In certain instances, the system may not be able to exactly determine the risk of collision for the vehicles which are parking or pulling out near your vehicle (e.g. a vehicle escaping beside your vehicle, a vehicle parking or pulling out in the rear area, a vehicle approaching your vehicle making a turn, etc.).

In this case, the warning or brake may not operate properly.

When the vehicle is parked diagonally



[A]: Vehicle

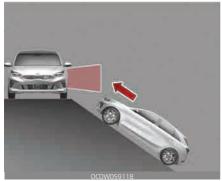
The system may not operate properly when the vehicle is parked diagonally.

In certain instances, when the diagonally parked vehicle is pulled out of the parking space, the system may not detect the vehicle

approaching from the rear left/ right of your vehicle. In this case, the warning or brake may not operate properly.

Always pay attention to your surrounding while driving.

When the vehicle is on/near a slope



The system may not operate properly when the vehicle is on/near a slope.

In certain instances, the system may not detect the vehicle approaching from the rear left/right and the warning or brake may not operate properly.

Always pay attention to your surrounding while driving.

Pulling into the parking space where there is a structure



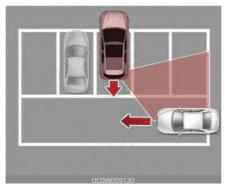
[A]: Structure, [B]: Wall

The system may not operate properly when pulling in the vehicle to the parking space where there is a structure at the back or side of your vehicle.

In certain instances, when backing into the parking space, the system may not detect the vehicle moving in front of your vehicle. In this case, the warning or brake may not operate properly.

Always pay attention to the parking space while driving.

When the vehicle is parked rearward



If the vehicle is parked rearward and the sensor detects the another vehicle in the rear area of the parking space, the system can warn or control braking. Always pay attention to the parking space while driving.

Driver Attention Warning (DAW) (if equipped)

The Driver Attention Warning (DAW), system is to warn the driver with any hazardous driving situations upon detecting the driver's fatigue level or inattentive driving practices.

System setting and activation

System setting

- The Driver Attention Warning system is set to be in the OFF position, when your vehicle is first delivered to you from the factory.
- To turn ON the Driver Attention Warning system, turn on the engine, and then select 'User Settings → Driver assistance → Driver Attention Warning → High sensitivity/Normal sensitivity' on the LCD display.
- The driver can select the Driver Attention Warning system mode.
 - Off: The Driver Attention Warning system is deactivated.
 - Normal sensitivity: The Driver Attention Warning system alerts the driver of his/her fatigue level or inattentive driving practices.
 - High sensitivity: The Driver Attention Warning system alerts the driver of his/her fatigue level or inattentive driving practices faster than Normal mode.
- The set-up of the Driver Attention Warning system will be

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maintained, as selected, when the engine is re-started.

Display of the driver's attention level

Attention Level	
Low High	
Last Break 05:27	

- The driver can monitor their driving conditions on the LCD display.
 - Select 'User Settings Mode' and then 'Driver assistance' on the LCD display. (For more information, refer to "LCD windows (if equipped)" on page 4-69.)
- The driver's attention level is displayed on the scale of 1 to 5. The lower the number is, the more inattentive the driver is.
- The number decreases when the driver does not take a break for a certain period of time.
- The number increases when the driver attentively drives for a certain period of time.
- When the driver turns on the system while driving, it displays

"Last Break time" and level reflected that.

Take a break



- The "Consider taking a break" message appears on the LCD display and a warning sounds in order to suggest the driver to take a break, when the driver's attention level is below 1.
- The Driver Attention Warning system does not suggest the driver to take a break, when the total driving time is shorter than 10 minutes.

Resetting the system



- The last break time is set to 00:00 and the driver's attention level is set to 5 (very attentive) when the driver resets the Driver Attention Warning system.
- The driver attention warning system resets in the following situations.
 - The engine is turned OFF.
 - The driver unfastens the seat belt and then opens the driver's door.
 - Stop lasting more than 10 minutes.
- The driver attention warning system operates again, when the driver restarts driving.

System disabled

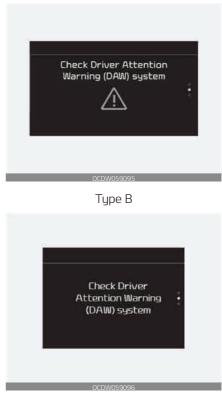
The Driver Attention Warning system enters the ready status and displays the 'Disabled' screen in the following situations.

• The camera sensor keeps failing to detect the lanes.

• Driving speed remains under 60 km/h or over 180 km/h.

System malfunction

Type A



When the "Check System" warning message appears, the system is not working properly. In this case, we recommend you to have the vehicle inspected by an authorized Kia dealer.



- The Driver Attention Warning system is not a substitute for safe driving practices, but a convenience function only. It is the responsibility of the driver to always drive cautiously to prevent unexpected and sudden situations from occurring. Pay attention to the road conditions at all times.
- It may suggest a break according to the driver's driving pattern or habits even if the driver doesn't feel fatigued.
- The driver, who feels fatigued, should take a break, even though there is no break suggestion by the Driver Attention Warning system.

* NOTICE

The Driver Attention Warning system utilizes the camera sensor on the front windshield for its operation. To keep the camera sensor in the best condition, you should observe the followings:

- Do not disassemble camera temporarily for tinted window or attaching any types of coatings and accessories. If you disassemble a camera and assemble it again, take your vehicle to an authorized Kia dealer and have the system checked to need a calibration.
- Do not locate any reflective objects (i.e. white paper, mirror)

over the dashboard. Any light reflection may cause a malfunction of the Driver Attention Warning (DAW) system.

- Pay extreme caution to keep the camera sensor out of water.
- Do not arbitrarily disassemble the camera assembly, nor apply any impact on the camera assembly.
- Playing the vehicle audio system at high volume may offset the Driver Attention Warning system warning sounds.

A CAUTION

The Driver Attention Warning system may not properly operate with limited alerting in the following situations:

- The lane detection performance is limited. (For more information, refer to "Lane Keeping Assist (LKA) system (if equipped)" on page 6-126.)
- The vehicle is violently driven or is abruptly turned for obstacle avoidance (e.g. construction area, other vehicles, fallen objects, bumpy road).
- Forward drivability of the vehicle is severely undermined (possibly due to wide variation in tire pressures, uneven tire wear-out, toe-in/ toeout alignment).
- The vehicle drives on a curvy road.
- The vehicle drives on a bumpy road.

- The vehicle drives through a windy area.
- The vehicle is controlled by the following driving assist systems:
 - Lane Keeping Assist System (LKA)
 - Forward collision-avoidance assist (FCA) System
 - Smart Cruise Control (SCC) System

Economical operation

Your vehicle's fuel economy depends mainly on your style of driving, where you drive and when you drive.

Each of these factors affects how many kilometers (miles) you can get from a liter (gallon) of fuel. To operate your vehicle as economically as possible, use the following driving suggestions to help save money in both fuel and repairs:

 Drive smoothly. Accelerate at a moderate rate. Don't make "jack-rabbit" starts or fullthrottle shifts and maintain a steady cruising speed. Don't race between stoplights. Try to adjust your speed to the traffic so you don't have to change speeds unnecessarily. Avoid heavy traffic whenever possible. Always maintain a safe distance

from other vehicles so you can avoid unnecessary braking. This also reduces brake 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.
- Don't "ride" the brake pedal. This can increase fuel consumption and also increase wear on these components. In addition, driving with your foot resting on the

brake pedal may cause the brakes to overheat, which reduces their effectiveness and may lead to more serious consequences.

- Take care of your tires. Keep them inflated to the recommended pressure. Incorrect inflation, either too much or too little, results in unnecessary tire wear. Check the tire pressures at least once a month.
- Be sure that the wheels are aligned correctly. Improper alignment can result from hitting curbs or driving too fast over irregular surfaces. Poor alignment causes faster tire wear and may also result in other problems as well as greater fuel consumption.
- Keep your car in good condition. For better fuel economy and reduced maintenance costs, maintain your car in accordance with the "Normal maintenance schedule - for Europe (Except Russia)" on page 8-15. If you drive your car in severe conditions, more frequent maintenance is required (Refer to "Maintenance under severe usage conditions - for Europe (Except Russia)" on page 8-19, "Severe driving conditions" on page 8-20).
- Keep your car clean. For maximum service, your vehicle should be kept clean and free of corrosive materials. It is especially important that mud, dirt, ice, etc.

not be allowed to accumulate on the underside of the car. This extra weight can result in increased fuel consumption and also contribute to corrosion.

- Travel lightly. Don't carry unnecessary weight in your car. 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.
- Remember, your vehicle does not require extended warm-up. After the engine has started, allow the engine to run for 10 to 20 seconds prior to placing the vehicle in gear. In very cold weather, however, give your engine a slightly longer warmup period.
- Don't "lug" or "over-rev" the engine. Lugging is driving too slowly in too high a gear resulting in the engine bucking. If this happens, shift to a lower gear. Overrevving is racing the engine beyond its safe limit. This can be avoided by shifting at the recommended speeds.
- Use your air conditioning sparingly. The air conditioning system is operated by engine power so your fuel economy is reduced when you use it.
- Open windows at high speeds can reduce fuel economy.

• Fuel economy is less in crosswinds and headwinds. To help offset some of this loss, slow down when driving in these conditions.

Keeping a vehicle in good operating condition is important both for economy and safety. Therefore, have the system serviced by a professional workshop.

Kia recommends to visit an authorized Kia dealer/service partner.

A WARNING

Engine off during motion

Never turn the engine off to coast down hills or anytime the vehicle is in motion. The power steering and power brakes will not function properly without the engine running. Instead, keep the engine on and downshift to an appropriate gear for engine braking effect. In addition, turning off the ignition while driving could engage the steering wheel lock resulting in loss of vehicle steering which could cause serious injury or death.

Special driving conditions

Hazardous driving conditions

When hazardous driving conditions are encountered such as water, snow, ice, mud, sand, or similar hazards, follow these suggestions:

- Drive cautiously and allow extra distance for braking.
- Avoid sudden braking or steering.
- When braking with non-ABS brakes pump the brake pedal with a light up-and-down motion until the vehicle is stopped.

A WARNING

ABS

Do not pump the brake pedal on a vehicle equipped with ABS.

- If stalled in snow, mud, or sand, use second gear. Accelerate slowly to avoid spinning the drive wheels.
- Use sand, rock salt, tire chains, or other non-slip material under the drive wheels to provide traction when stalled in ice, snow, or mud.

Rocking the vehicle

If it is necessary to rock the vehicle to free it from snow, sand, or mud, first turn the steering wheel right and left to clear the area around your front wheels. Then, shift back and forth between 1st (First) and R (Reverse) in vehicles equipped with

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a manual transmission. Do not race the engine, and spin the wheels as little as possible. If you are still stuck after a few tries, have the vehicle pulled out by a tow vehicle to avoid engine overheating and possible damage to the transmission.

A CAUTION

Prolonged rocking may cause engine over-heating, transmission damage or failure, and tire damage.

A WARNING

Spinning tires

Do not spin the wheels, especially at speeds more than 56 km/h (35 mph). Spinning the wheels at high speeds when the vehicle is stationary could cause a tire to overheat which could result in tire damage that may injure bystanders.

* NOTICE

The ESC system should be turned OFF prior to rocking the vehicle.

WARNING

If your vehicle becomes stuck in snow, mud, sand, etc., then you may attempt to rock the vehicle free by moving it forward and backward. Do not attempt this procedure if people or objects are anywhere near the vehicle. During the rocking operation the vehicle may suddenly move forward of backward as it becomes unstuck, causing injury or damage to nearby people or objects.

Smooth cornering



Avoid braking or gear changing in corners, especially when roads are wet. Ideally, corners should always be taken under gentle acceleration. If you follow these suggestions, tire wear will be held to a minimum.

Driving at night



Because night driving presents more hazards than driving in the daylight, here are some important tips to remember:

- Slow down and keep more distance between you and other vehicles, as it may be more difficult to see at night, especially in areas where there may not be any street lights.
- Adjust your mirrors to reduce the glare from other driver's headlights.
- Keep your headlights clean and properly aimed on vehicles not equipped with the automatic headlight aiming feature. Dirty or improperly aimed headlights 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're not prepared for the slick pavement. Here are a few things to consider when driving in the rain:

- A heavy rainfall will make it harder to see and will increase the distance needed to stop 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 missing areas on the windshield.
- If your tires are not in good condition, making a quick stop on wet pavement can cause a 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 go through puddles, try to drive through them slowly.

 If you believe you may have gotten your brakes wet, apply them lightly while driving until normal braking operation returns.

Driving in flooded areas

Avoid driving through flooded areas unless you are sure the water is no higher than the bottom of the wheel hub. Drive through any water slowly. Allow adequate stopping distance because brake performance may be affected.

After driving through water, dry the brakes by gently applying them several times while the vehicle is moving slowly.

Driving off-road

Drive carefully off-road because your vehicle may be damaged by rocks of roots of trees. Become familiar with the off-road conditions where you are going to drive before you begin driving.

Highway driving

Tires



Adjust the tire inflation pressures to specification. Low tire inflation pressures will result in overheating and possible failure of the tires.

Avoid using worn or damaged tires which may result in reduced traction or tire failure.

* NOTICE

Never exceed the maximum tire inflation pressure shown on the tires.

WARNING

• Underinflated or overinflated tires can cause poor handling, loss of vehicle control, and sudden tire failure leading to accidents, injuries, and even death. Always check tires for proper inflation before driving. For proper tire pressures, refer to "Tires and wheels (5 Door, Wagon, Shooting brake)" on page 9-6, "Tires and wheels (CUV)" on page 9-7.

 Driving on tires with no or insufficient tread is dangerous. Worn-out tires can result in loss of vehicle control, collisions, injury, and even death. Worn-out tires should be replaced as soon as possible and should never be used for driving. Always check the tire tread before driving your car. For further information and tread limits, refer to "Tires and wheels (5 Door, Wagon, Shooting brake)" on page 9–6, "Tires and wheels (CUV)" on page 9–7.

Fuel, engine coolant and engine oil

High speed travel consumes more fuel than urban motoring. Do not forget to check both engine coolant and engine oil.

Drive belt

A loose or damaged drive belt may result in overheating of the engine.

Winter driving



More severe weather conditions of winter result in greater wear and other problems. To minimize winter driving problem, you should follow these suggestions:

* Snow tires and tire chains for the national language (Icelandic, Bulgarian) see the Appendix to chapter 10.

Snowy or icy conditions

To drive your vehicle in deep snow, it may be necessary to use snow tires or to install tire chains on your tires. If snow tires are needed, it is necessary to select tires equivalent in size and type of the original equipment tires. Failure to do so may adversely affect the safety and handling of your car. Furthermore, speeding, rapid acceleration, sudden brake applications, and sharp turns are potentially very hazardous practices.

During deceleration, use engine braking to the fullest extent. Sudden brake applications on snowy or icy roads may cause skids to occur. You need to keep sufficient distance between the vehicle in operation in front and your vehicle. Also, apply the brake gently. It should be noted that installing tire chains on the tire will provide a greater driving force, but will not prevent side skids.

* NOTICE

Tire chains are not legal in all countries. Check the country laws before fitting tire chains.

Snow tires

If you mount snow tires on your vehicle, make sure they are radial tires of the same size and load range as the original tires. Mount snow tires on all four wheels to balance your vehicle's handling in all weather conditions. Keep in mind that the traction provided by snow tires on dry roads may not be as high as your vehicle's original equipment tires. You should drive cautiously even when the roads are clear. Check with the tire dealer for maximum speed recommendations.

A WARNING

Snow tire size

Snow tires should be equivalent in size and type to the vehicle's standard tires. Otherwise, the safety and handling of your vehicle may be adversely affected.

Do not install studded tires without first checking local, state and municipal regulations for possible restrictions against their use.

Tire chains



Since the sidewalls of radial tires are thinner, they can be damaged by mounting some types of snow chains on them. Therefore, the use of snow tires is recommended instead of snow chains. Do not mount tire chains on vehicles equipped with aluminum wheels; snow chains may cause damage to the wheels. If snow chains must be used, use wire-type chains with a thickness of less than 12 mm (0.47 in). Damage to your vehicle caused by improper snow chain use is not covered by your vehicle manufacturers warranty.

Install tire chains only on the front tires.

CAUTION

- Make sure the snow chains are the correct size and type for your tires. Incorrect snow chains can cause damage to the vehicle body and suspension and may not be covered by your vehicle manufacturer warranty. Also, the snow chain connecting hooks may be damaged from contacting vehicle components causing the snow chains to come loose from the tire. Make sure the snow chains are SAE class "S" certified.
- Always check chain installation for proper mounting after driving approximately 0.5 to 1 km (0.3 to 0.6 miles) to ensure safe mounting. Retighten or remount the chains if they are loose.
- Even with the appropriate chain installed, do not make a full turn(turn the steering wheel fully to one side) when driving the vehicle. (If you are making a full turn, drive with the speed below 10km/h.)
- If your vehicle has 225/40R18 size tires, do not use tire chain; they can damage your vehicle (wheel, suspension and body).

Chain installation

When installing chains, follow the manufacturer's instructions and mount them as tightly as you can.

Drive slowly with chains installed. If you hear the chains contacting the body or chassis, stop and tighten them. If they still make contact, slow down until it stops. Remove the chains as soon as you begin driving on cleared roads.

WARNING

Mounting chains

When mounting snow chains, park the vehicle on level ground away from traffic. Turn on the vehicle Hazard Warning flashers and place a triangular emergency warning device behind the vehicle if available. Always place the vehicle in P (Park), apply the parking brake and turn off the engine before installing snow chains.

6

WARNING

Tire chains

- The use of chains may adversely affect vehicle handling.
- Do not exceed 30 km/h (20 mph) or the chain manufacturer's recommended speed limit, whichever is lower.
- Drive carefully and avoid bumps, holes, sharp turns, and other road

hazards, which may cause the vehicle to bounce.

• Avoid sharp turns or locked-wheel braking.

CAUTION

Tire chains

- Chains that are the wrong size or improperly installed can damage your vehicle's brake lines, suspension, body and wheels.
- Stop driving and retighten the chains any time you hear them hitting the vehicle.

Use high quality ethylene glycol coolant

Your vehicle is delivered with high quality ethylene glycol coolant in the cooling system. It is the only type of coolant that should be used because it helps prevent corrosion in the cooling system, lubricates the water pump and prevents freezing. Be sure to replace or replenish your coolant in accordance with the maintenance schedule in section 8.

Before winter, have your coolant tested to assure that its freezing point is sufficient for the temperatures anticipated during the winter.

Check battery and cables

Winter puts additional burdens on the battery system. Visually inspect the battery and cables as described in section 8. Have the level of charge in your battery checked by a professional workshop. Kia recommends to visit an authorized Kia dealer/service partner.

Change to "winter weight" oil if necessary

In some climates it is recommended that a lower viscosity "winter weight" oil be used during cold weather. See section 9 for recommendations. If you aren't sure what weight oil you should use, Kia recommends to consult an authorized Kia dealer/service partner.

Check spark plugs and ignition system

Inspect your spark plugs as described in section 8 and replace them if necessary. Also check all ignition wiring and components to be 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 glycerine into the key opening. If a lock is covered with ice, squirt it with an approved de-icing fluid to remove the ice. If the lock is frozen internally, you may be able to thaw it out by using a heated key. Handle the heated key with care to avoid injury.

Use approved window washer anti-freeze in system

To keep the water in the window washer system from freezing, add an approved window washer anti-freeze solution in accordance with instructions on the container. Window washer anti-freeze is available from an authorized Kia dealer/service partner and most auto parts outlets. 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 in the engaged position. This is most likely to happen when there is an accumulation of snow or ice around or near the rear brakes or if the brakes are wet. If there is a risk the parking brake may freeze, apply it only temporarily while you put the shift lever in first or reverse gear (manual transmission) and block the rear wheels so the vehicle cannot roll. Then release the parking brake.

Don't let ice and snow accumulate underneath

Under some conditions, snow and ice can build up under the fenders and interfere with the steering. When driving in severe winter conditions where this may happen, you should periodically check underneath the car to be sure the movement of the front wheels and the steering components is not obstructed.

Carry emergency equipment

Depending on the severity of the weather, you should carry appropriate emergency equipment. Some of the items you may want to carry include tire chains, tow straps or chains, flashlight, emergency flares, sand, shovel, jumper cables, window scraper, gloves, ground cloth, coveralls, blanket, etc.

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Trailer towing (For europe)

If you are considering towing with your car, you should first check with your country's Department of Motor Vehicles to determine their legal requirements.

Since laws vary the requirements for towing trailers, cars, or other types of vehicles or apparatus may differ. Kia recommends to ask an authorized Kia dealer/service partner.

A WARNING

Towing a trailer

If you don't use the correct equipment and drive improperly, you can lose control when you pull a trailer.

For example, if the trailer is too heavy, the brakes may not work well – or even at all. You and your passengers could be seriously or fatally injured. Pull a trailer only 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.

* NOTICE

 The technically permissible maximum load on the rear axle(s) mau be exceeded bu not more than 15 % and the technically permissible maximum laden mass of the vehicle may be exceeded by not more than 10 % or 100 kg (220.4 lbs), whichever value is lower. In this case, do not exceed 100 km/h (62.1 mph) for vehicle of category M1 or 80 km/h (49.7 mph) for vehicle of category N1. When towing a trailer, the additional load imposed at the trailer coupling device may cause the rear tire maximum load ratings to be exceeded, but not bu more than 15%. In such a case, do not exceed 100 km/h, and the rear tire pressure should be at least 20 kPa(0.2 bar) above the tire pressure(s) as recommended for normal use (i.e. without a trailer attached).

A CAUTION

Pulling a trailer improperly can damage your vehicle and result in costly repairs not covered by your warranty. To pull a trailer correctly, follow the advice in this section.

Your vehicle can tow a trailer. To identify what the vehicle trailering capacity is for your vehicle, refer to "Weight of the trailer" on page 6-177 that appears later in this section.

Remember that trailering is different than just driving your vehicle by itself. Trailering means changes in handling, durability, and fuel economy. Successful, safe trailering requires correct equipment, and it has to be used properly.

This section contains many timetested, important trailering tips and safety rules. Many of these are important for your safety and that of your passengers. Please read this section carefully before you pull a trailer.

Load-pulling components such as the engine, transmission, wheel assemblies, and tires are forced to work harder against the load of the added weight. The engine is required to operate at relatively higher speeds and under greater loads. This additional burden generates extra heat. The trailer also considerably adds wind resistance, increasing pulling requirements.

Type A



Type B



* NOTICE

Location of trailer mounting The mounting hole for hitches are located on both sides of the underbody behind the rear tires.

Hitches

It's important to have the correct hitch equipment. Crosswinds, large trucks going by, and rough roads are a few reasons why you'll need the

right hitch. Here are some rules to follow:

- Do you have to make any holes in the body of your vehicle when you install a trailer hitch? If you do, then be sure to seal the holes later when you remove the hitch. If you don't seal them, deadly carbon monoxide (CO) from your exhaust can get into your vehicle, as well as dirt and water.
- The bumpers on your vehicle are not intended for hitches. Do not attach rental hitches or other bumper-type hitches. Use only a frame-mounted hitch that does not attach to the bumper.
- Kia trailer hitch accessary is available at an authorized Kia dealer/service partner.

Safety chains

You should always attach chains between your vehicle and your trailer. Cross the safety chains under the tongue of the trailer so that the tongue will not drop to the road if it becomes separated from the hitch.

Instructions about safety chains may be provided by the hitch manufacturer or by the trailer manufacturer. Follow the manufacturer's recommendation for attaching safety chains. Always leave just enough slack so you can turn with your trailer. And, never allow safety chains drag on the ground.

Trailer brakes

If your trailer is equipped with a braking system, make sure it conforms to your country's regulations and that it is properly installed and operating correctly.

If your trailer weighs more than the maximum trailer weight without trailer brakes loaded, then it needs its own brakes and they must be adequate. Be sure to read and follow the instructions for the trailer brakes so you'll be able to install, adjust and maintain them properly.

• Don't tap into your vehicle's brake system.

A WARNING

Trailer brakes

Do not use a trailer with its own brakes unless you are absolutely certain that you have properly set up the brake system. This is not a task for amateurs. Use an experienced, competent trailer shop for this work.

Driving with a trailer

Towing a trailer requires a certain amount of experience. Before setting out for the open road, you must get to know your trailer. Acquaint yourself with the feel of handling and braking with the added weight of the trailer. And always keep in mind that the vehicle you are driving is now a good deal longer and not nearly so responsive as your vehicle is by itself.

Before you start, check the trailer hitch and platform, safety chains, electrical connector(s), lights, tires and mirror adjustment. If the trailer has electric brakes, start your vehicle and trailer moving 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.

During your trip, check occasionally to be sure that the load is secure, and that the lights and trailer brakes are still working.

Following distance

Stay at least twice as far behind the vehicle ahead as you would when driving your vehicle without a trailer. This can help you avoid situations that require heavy braking and sudden turns.

Passing

You'll need more passing distance up ahead when you're towing a trailer. And, because of the increased vehicle length, you'll need to go much farther beyond the passed vehicle before you can return to your lane.

Backing up

Hold the bottom of the steering wheel with one hand. Then, to move the trailer to the left, just move your hand to the left. To move the trailer to the right, move your hand to the right. Always back up slowly and, if possible, have someone guide you.

Making turns

When you're turning with a trailer, make wider turns than normal. Do this so your trailer won't strike soft shoulders, curbs, road signs, trees, or other objects. Avoid jerky or sudden maneuvers. Signal well in advance.

Turn signals when towing a trailer

When you tow a trailer, your vehicle has to have a different turn signal flasher and extra wiring. The green arrows on your instrument panel will flash whenever you signal a turn or lane change. Properly connected, the trailer lights will also flash to alert other drivers you're about to turn, change lanes, or stop.

When towing a trailer, the green arrows on your instrument panel will flash for turns even if the bulbs on the trailer are burned out. Thus, you may think drivers behind you are seeing your signals when, in fact, they are not. It's important to check occasionally to be sure the trailer bulbs are still working. You must also check the lights every time you disconnect and then reconnect the wires.

Do not connect a trailer lighting system directly to your vehicle's lighting system. Use only an approved trailer wiring harness.

Have yourself assisted by a professional workshop in installing the wiring harness.

Kia recommends to visit an authorized Kia dealer/service partner.

WARNING

Failure to use an approved trailer wiring harness could result in damage to the vehicle electrical system and/or personal injury.

Driving on grades

Reduce the speed and shift to a lower gear before you start down a long or steep downgrade. If you don't shift down, you might have to use your brakes so much that they would get hot and no longer operate efficiently. On a long uphill grade, shift down and reduce your speed to around 70 km/h (45 mph) to reduce the possibility of engine and transmission overheating.

A CAUTION

- When towing a trailer on steep grades (in excess of 6%) pay close attention to the engine coolant temperature gauge to ensure the engine does not overheat. If the needle of the coolant temperature gauge moves across the dial towards "H (HOT) (or 130°C / 260°F)", pull over and stop as soon as it is safe to do so, and allow the engine to idle until it cools down. You may proceed once the engine has cooled sufficiently.
- You must decide the driving speed depending on trailer weight and uphill grade to reduce the possibility of engine and transmission overheating.

Parking on hills

Generally, if you have a trailer attached to your vehicle, you should not park your vehicle on a hill. People can be seriously or fatally injured, and both your vehicle and the trailer can be damaged if unexpectedly roll down hill.

WARNING



Parking on a hill

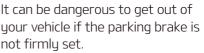
Parking your vehicle on a hill with a trailer attached could cause serious injury or death, should the trailer break loose.

However, if you ever have to park your trailer on a hill, here's how to do it:

- 1. Pull the vehicle into the parking space. Turn the steering wheel in the direction of the curb (right if headed down hill, left if headed up hill).
- 2. If the vehicle has a manual transmission, place the car in neutral.
- 3. Set the parking brake and shut off the vehicle.
- 4. Place chocks under the trailer wheels on the down hill side of the wheels.
- 5. Start the vehicle, hold the brakes, shift to neutral, release the parking brake and slowly release the brakes until the trailer chocks absorb the load.
- 6. Reapply the brakes, reapply the parking brake and shift the vehicle to R (Reverse) for manual transmission.
- 7. Shut off the vehicle and release the vehicle brakes but leave the parking brake set.

A WARNING

Parking brake



If you have left the engine running, the 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. With the manual transmission in Neutral, apply your brakes and hold the brake pedal down while you:
 - Start your engine;
 - Shift into gear; and
 - Release the parking brake.
- 2. Slowly remove your foot from the brake pedal.

6

- 3. Drive slowly until the trailer is clear of the chocks.
- 4. Stop and have someone pick up and store the chocks.

Maintenance when trailer towing

Your vehicle will need service more often when you regularly pull a trailer. Important items to pay particular attention to include engine oil, axle lubricant and cooling system fluid. Brake condition is another important item to frequently check. Each item is covered in this manual, and the Index will help you find them quickly. If you're trailering, it's a good idea to review these sections before you start your trip. Don't forget to also maintain your trailer and hitch. Follow the maintenance schedule that accompanied your trailer and check it periodically. Preferably, conduct the check at the start of each day's driving. Most importantly, all hitch nuts and bolts should be tight.

A CAUTION

- Due to higher load during trailer usage, overheating might occur in hot days or during uphill driving. If the coolant gauge indicates overheating, switch off the A/C and stop the vehicle in a safe area to cool down the engine.
- When towing, 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 do decide to pull a trailer

Here are some important points if you decide to pull a trailer:

- Consider using a sway control. You can ask a hitch dealer about sway control.
- Do not do any towing with your car during its first 2,000 km (1,200 miles) in order to allow the engine to properly break in. Failure

to heed this caution may result in serious engine or transmission damage.

- When towing a trailer, Kia recommends that you consult an authorized Kia dealer/ service partner on additional requirements such as a towing kit, etc.
- Always drive your vehicle at a moderate speed (less than 100 km/h (60 mph)).
- On a long uphill grade, do not exceed 70 km/h (45 mph) or the posted towing speed limit, whichever is lower.
- The chart contains important considerations that have to do with weight:

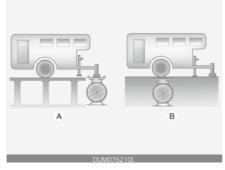
ltem		G1.0 T-GDI		G1.4 T-GDI		G1.4 T-GDI	G1.4 MPI		
		6MT		6MT		7DCT	6MT		
		Fuel economy package	Stan- dard package	Fuel economy package	Standard package	Standard package	Fuel	Standard package	
				Standard package package / Trailer package	Standard package package / Trailer package	Standard package package / Trailer package	Fuel economy package		
Maximum trailer weight kg (lbs.)	Without brake	600 (1323)	600 (1323)	450 (992) / 600 (1323)	450 (992) / 600 (1323)	450 (992) / 600 (1323)	600 (1323)	600 (1323)	
	With brake	1200 (2645)	1200 (2645)	1000 (2205) / 1410 (3108)	1000 (2205) / 1410 (3108)	1000 (2205) / 1410 (3108)	1200 (2645)	1200 (2645)	
Maximum permissible static vertical load on the coupling device kg (lbs.)		75 (165)							
Recom- mended distance from rear wheel center to	5 Door	880 (34.6)							
	Wagon	1,170 (46.1)							
	Shoo- ting brake	1,145 (45.1)							
coupling point mm (inch)	CUV	915 (36.0)							

ltem		G1.6 MPI 6M/T Standard package	G 1.6 MPI 6AT Standard package	G1.6 T-GDI 6MT Standard package	G1.6 T-GDI 7DCT Standard package	
Maximum trailer weight kg (lbs.)	Without brake	600 (1323)	600 (1323)	600 (1323)	600 (1323)	
	With brake	1200 (2645)	1200 (2645)	1200 (2645)	1200 (2645)	
Maximum perm static vertical lo the coupling de (lbs.)	oad on	75 (165)				

ltem		G1.6 MPI	G1.6 MPI	G1.6 T-GDI	G1.6 T-GDI		
		6M/T	6AT	6MT	7DCT		
		Standard package	Standard package	Standard package	Standard package		
Recom- mended distance from rear wheel center to coupling point mm (inch)	5 Door	880 (34.6)					
	Wagon	1,170 (46.1)					
	Shoo- ting brake	1,145 (45.1)					
	CUV	915 (36.0)					

		D1 6M	D1.6 7DCT			
ltem		Fuel economy package				
		Standard package package / Trailer package	Standard package package / Trailer package	Standard package package / Trailer package		
Maximum trailer weight	Without brake	600 (1323) / 650 (1433)	600 (1323) / 650 (1433)	600 (1323) / 650 (1433)		
kg (lbs.)	With brake	1200 (2645) / 1500 (3307)	1200 (2645) / 1500 (3307)	1200 (2645) / 1500 (3307)		
Maximum permissible stati on the coupling device kg (II		75 (165)				
	5 Door	880 (34.6)				
Recommended distance	Wagon	1,170 (46.1)				
from rear wheel center to coupling point mm (inch)	Shooting brake	1,145 (45.1)				
	CUV	915 (36.0)				

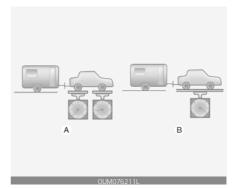
Weight of the trailer



- A: Tongue Load
- B: Total Trailer Weight

What is the maximum safe weight of a trailer? It should never weigh more than the maximum trailer weight with trailer brakes. But even that can be too heavy.

It depends on how you plan to use your trailer. For example, speed, altitude, road grades, outside temperature and how often your vehicle is used to pull a trailer are all important. The ideal trailer weight can also depend on any special equipment that you have on your vehicle. Weight of the trailer tongue



A: Gross Axle Weight

B: Gross Vehicle Weight

The tongue load of any trailer is an important weight to measure because it affects the total gross vehicle weight (GVW) of your vehicle. This weight includes the curb weight of the vehicle, any cargo you may carry in it, and the people who will be riding in the vehicle. And if you tow a trailer, you must add the tongue load to the GVW because your vehicle will also be carrying that weight.

The trailer tongue should weigh a maximum of 10% of the total loaded trailer weight, within the limits of the maximum trailer tongue load permissible.

After you've loaded your trailer, weigh the trailer and then the tongue, separately, to see if the weights are proper. If they aren't, you may be able to correct them

simply by moving some items around in the trailer.

A 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 and/or personal injury. Check weights and loading at a commercial scale or highway patrol office equipped with scales.
- An improperly loaded trailer can cause loss of vehicle control.

Vehicle weight

This section will guide you in the proper loading of your vehicle, to keep your loaded vehicle weight within its design rating capability. Properly loading your vehicle will provide maximum return of the vehicle design performance. Before loading your vehicle, familiarize yourself with the following terms for determining your vehicle's weight ratings, from the vehicle's specifications and the certification label:

Base curb weight

This is the weight of the vehicle including a full tank of fuel and all standard equipment. It does not include passengers, cargo, or optional equipment.

Vehicle curb weight

This is the weight of your new vehicle when you picked it up from your dealer plus any aftermarket equipment.

Cargo weight

This figure includes all weight added to the Base Curb Weight, including cargo and optional equipment.

GAW (Gross axle weight)

This is the total weight placed on each axle (front and rear) – including vehicle curb weight and all payload.

GAWR (Gross axle weight rating)

This is the maximum allowable weight that can be carried by a single axle (front or rear). These numbers are shown on the certification label.

The total load on each axle must never exceed its GAWR.

GVW (Gross vehicle weight)

This is the Base Curb Weight plus actual Cargo Weight plus passengers.

GVWR (Gross vehicle weight rating)

This is the maximum allowable weight of the fully loaded vehicle (including all options, equipment, passengers and cargo). The GVWR is shown on the certification label located on the driver's (or front passenger's) door sill.

Overloading

A 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's (or front passenger's) door. Exceeding these ratings can cause an accident or vehicle damage. You can calculate the weight of your load by weighing the items (and people) before putting them in the vehicle. Be careful not to overload your vehicle.

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WHAT TO DO IN AN EMERGENCY

ROAD WARNING

Hazard warning flasher

Type A







The hazard warning flasher serves as a warning to other drivers to exercise extreme caution when approaching, overtaking, or passing your vehicle. It should be used whenever emergency repairs are being made or when the vehicle is stopped near the edge of a roadway.

Depress the flasher switch with the ignition switch in any position. The flasher switch is located in the center console switch panel. All turn signal lights will flash simultaneously.

- The hazard warning flasher operates whether your vehicle is running or not.
- The turn signals do not work when the hazard flasher is on.
- Care must be taken when using the hazard warning flasher while the vehicle is being towed.

7 -

IN CASE OF AN EMERGENCY WHILE DRIVING

If the engine stalls at a crossroad or crossing

- If the engine stalls at a crossroad or crossing, set the shift lever in the N (Neutral) position and then push the vehicle to a safe place.
- If your vehicle has a manual transmission not equipped with a ignition lock switch, the vehicle can move forward by shifting to the 2 (second) or 3 (third) gear and then turning the starter without depressing the clutch pedal.

If you have a flat tire while driving

If a tire goes flat while you are driving:

- Take your foot off the accelerator pedal and let the vehicle slow down while driving straight ahead. Do not apply the brakes immediately or attempt to pull off the road as this may cause a loss of control. When the vehicle has slowed down to such a speed that it is safe to do so, brake carefully and pull off the road. Drive off the road as far as possible and park on a firm level ground. If you are on a divided highway, do not park in the median area between the two traffic lanes.
- 2. When the vehicle is stopped, turn on your emergency hazard

flashers, set the parking brake and put the transmission in reverse (manual transmission).

- 3. Have all passengers get out of the vehicle. Be sure they all get out on the side of the vehicle that is away from traffic.
- 4. When changing a flat tire, follow the instruction provided later in this section.

If engine stalls while driving

- 1. Reduce your speed gradually, keeping a straight line. Move cautiously off the road to a safe place.
- 2. Turn on your emergency flashers.
- 3. Try to start the engine again. If your vehicle does not start, consult a professional workshop. Kia recommends to consult an authorized Kia dealer/service partner.

IF THE ENGINE WILL NOT START

If engine doesn't turn over or turns over slowly

- 1. Check the battery connections to be sure they are clean and tight.
- 2. Turn on the interior light. If the light dims or goes out when you operate the starter, the battery is discharged.
- 3. Check the starter connections to be sure they are securely tightened.
- 4. Do not push or pull the vehicle to start it. See instructions for "Jump starting".

A WARNING

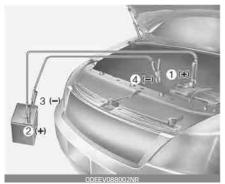
If the engine will not start, do not push or pull the vehicle to start it. This could result in a collision or cause other damage. In addition, push or pull starting may cause the catalytic converter to be overloaded and create a fire hazard.

If engine turns over normally but does not start

- 1. Check the fuel level.
- 2. With the ignition switch in the LOCK 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 a professional workshop. Kia recommends to call an authorized Kia dealer/service partner.

EMERGENCY STARTING



Connect cables in numerical order and disconnect in reverse order.

Jump starting

Jump starting can be dangerous if done incorrectly. Therefore, to avoid harm to yourself or damage to your vehicle or battery, follow the jump starting procedures. If in doubt, we strongly recommend that you have a competent technician or towing service jump start your vehicle.

A CAUTION

Use only a 12-volt jumper system. You can damage a 12-volt starting motor, ignition system, and other electrical parts beyond repair by use of a 24- volt power supply (either two 12-volt batteries in series or a 24-volt motor generator set).

WARNING



Never attempt to check the electrolyte level of the battery as this may cause the battery to rupture or explode causing serious injury.

A WARNING

Battery

- Keep all flames or sparks away from the battery. The battery produces hydrogen gas which may explode if exposed to flame or sparks. If these instructions are not followed exactly, serious personal injury and damage to the vehicle may occur! If you are not sure how to follow this procedure, seek gualified assistance. Automobile batteries contain sulfuric acid. This is poisonous and highly corrosive. When jump starting, wear protective glasses and be careful not to get acid on yourself, your clothing or on the vehicle.
- Do not attempt to jump start the vehicle if the discharged battery is frozen or if the electrolyte level is low; the battery may rupture or explode.
- Do not allow the (+) and (-) jumper cables to touch. It may cause sparks.
- The battery may rupture or explode when you jump start with a low or frozen battery.

Jump starting procedure

- 1. Make sure the booster battery is 12-volt and that its negative terminal is grounded.
- 2. If the booster battery is in another vehicle, do not allow the vehicles come in contact.
- 3. Turn off all unnecessary electrical loads.
- 4. Connect the jumper cables in the exact sequence shown in the illustration. First connect one end of a jumper cable to the positive terminal of the discharged battery (1), then connect the other end to the positive terminal on the booster battery (2). Proceed to connect one end of

Proceed to connect one end of the other jumper cable to the negative terminal of the booster battery (3), then the other end to a solid, stationary, metallic point (for example, the engine lifting bracket) away from the battery (4). Do not connect it to or near any part that moves when the engine is cranked.

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 making connections.

A CAUTION

Battery cables

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, releasing battery acid. Make sure to 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.

5. Start the engine of the vehicle with the booster battery and let it run at 2,000 rpm, then start the engine of the vehicle with the discharged battery.

If the cause of your battery discharging is not apparent, have the system checked by a professional workshop. Kia recommends to visit an authorized Kia dealer/service partner.

Push-starting

Your manual transmission-equipped vehicle should not be push-started because it might damage the emission control system.

Vehicles equipped with automatic transmission / dual clutch transmission cannot be pushstarted.

Follow the directions in this section for jump-starting.

7

A WARNING

Never tow a vehicle to start it because the sudden surge forward when the engine starts could cause a collision with the tow vehicle.

IF THE ENGINE OVERHEATS

If your temperature gauge indicates overheating, you will experience a loss of power, or hear loud pinging or knocking, 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. Place the shift lever in P (automatic transmission) or neutral (manual transmission) and set the parking brake. If the air conditioning is on, turn it off.
- 3. If engine coolant is running out under the vehicle or steam is coming out from the hood, stop the engine. Do not open the hood until the coolant has stopped running or the steaming has stopped. If there is no visible loss of engine coolant and no steam, leave the engine running and check to be sure the engine cooling fan is operating. If the fan is not running, turn the engine off.
- 4. Check to see if the water pump drive belt is missing. If it is not missing, check to see that it is tight. If the drive belt seems to be satisfactory, check for coolant leaking from the radiator, hoses or under the vehicle. (If the air conditioning had been in use, it is normal for cold water to be draining from it when you stop).

WARNING

While the engine is running, keep hair, hands and clothing away from moving parts such as the fan and drive belts to prevent injury.

5. If the water pump drive belt is broken or engine coolant is leaking out, stop the engine immediately and call a professional workshop. Kia recommends to call an authorized Kia dealer/service partner.

A WARNING

Do not remove the radiator cap when the engine is hot. This can allow coolant to blow out of the opening and cause serious burns.

- 6. If you cannot find the cause of the overheating, wait until the engine temperature has returned to normal. Then, if coolant has been lost, carefully add coolant to the reservoir to bring the fluid level in the reservoir up to the halfway mark.
- 7. Proceed with caution, keeping alert for further signs of overheating. If overheating happens again, call a professional workshop. Kia recommends to call an authorized Kia dealer/service partner.

CAUTION

• Serious loss of coolant indicates there is a leak in the cooling

system. In this case, have the system checked by a professional workshop. Kia recommends to visit an authorized Kia dealer/ service partner.

 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.

9

Tire pressure monitoring system (TPMS) (Type A) (if equipped)





- 1. Low tire pressure telltale/TPMS malfunction indicator
- 2. Low tire pressure position telltale (Shown on the LCD display)

Check tire pressure

- You can check the tire pressure in the assist mode on the cluster.
 - Refer to "User settings mode" on page 4-75.
- Tire pressure is displayed 1~2 minutes later after driving.

- If tire pressure is not displayed when the vehicle is stopped, "Drive to display" message displays. After driving, check the tire pressure.
- You can change the tire pressure unit in the user settings mode on the cluster.
 - psi, kpa, bar (Refer to "User settings mode" in chapter 4).

Each tire, including the spare (if provided), should be checked monthly when cold and inflated to the inflation pressure recommended by the vehicle manufacturer on the vehicle placard or tire inflation pressure label.

(If your vehicle has tires of a different size than the size indicated on the vehicle placard or tire inflation pressure label, you should determine the proper tire inflation pressure for those tires.)

As an added safety feature, your vehicle has been equipped with a tire pressure monitoring system (TPMS) that illuminates a low tire pressure telltale when one or more of your tires is significantly underinflated. 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 1 minute and then remain continuouslu illuminated. This sequence will continue upon subsequent vehicle start-ups as long as the malfunction exists. When the TPMS malfunction indicator remains illuminated after blinking for approximately 1 minute, the system may not be able to detect or signal low tire pressure as intended.

TPMS malfunctions may occur for a variety of reasons, including the installation of replacement or alternate tires or wheels on the vehicle that prevent the TPMS from functioning properly. Always check the TPMS malfunction telltale after replacing one or more tires or wheels on your vehicle to ensure that the replacement or alternate tires and wheels allow the TPMS to continue to function properly.

* NOTICE

If any of the below happens, have the system checked by a professional workshop. Kia recommends to visit an authorized Kia dealer/service partner.

- 1. The low tire pressure telltale/ TPMS malfunction indicator do not illuminate for 3 seconds when the ignition switch is turned to the ON position or engine is running.
- 2. The TPMS malfunction indicator remains illuminated after blinking for approximately 1 minute.
- 3. The Low tire pressure position telltale remains illuminated.



Low tire pressure position telltale



When the tire pressure monitoring system warning indicators are illuminated and warning massage displayed on the cluster LCD display, one or more of your tires is significantly under-inflated. The low tire pressure position telltale light will indicate which tire is significantly under-inflated by illuminating the corresponding position light.

If either telltale illuminates, immediately reduce your speed, avoid hard cornering and anticipate increased stopping distances. You should stop and check your tires as soon as possible. Inflate the tires to the proper pressure as indicated on the vehicle 's placard or tire inflation pressure label located on the driver's side center pillar outer panel. If you cannot reach a service station or if the tire cannot hold the newly added air, replace the low pressure tire with a spare tire.

If you drive the vehicle for about 10 minutes at speeds above 25 km/h after replacing the low pressure tire with the spare tire, one of the following will happen:

 The TPMS malfunction indicator may blink for approximately 1 minute and then remain continuously illuminated because the TPMS sensor is not mounted on the spare wheel. (changed tire equipped with a sensor not in the vehicle) The TPMS malfunction indicator will remain continuously illuminated while driving because the TPMS sensor is not mounted on the spare wheel. (changed tire equipped with a sensor in the vehicle)

A CAUTION

- In winter or cold weather, the low tire pressure telltale may illuminate if the tire pressure was adjusted to the recommended tire inflation pressure in warm weather. It does not mean your TPMS is malfunctioning because the decreased temperature leads to a lowering of tire pressure.
- When you drive your vehicle from a warm area to a cold area or from a cold area to a warm area, or the outside temperature is higher or lower, you should check the tire inflation pressure and adjust the tires to the recommended tire inflation pressure.
- When filling tires with more air, conditions to turn off the low tire pressure telltale may not be met. This is because a tire inflator has a margin of error in performance. The low tire pressure telltale will be turned off if the tire pressure is above the recommended tire inflation pressure.

WARNING

Low pressure damage

Significantly low tire pressure makes the vehicle unstable and can contribute to loss of vehicle control and increased braking distances. Continued driving on low pressure tires can cause the tires to overheat and fail.

TPMS (Tire Pressure Monitoring System) malfunction indicator (!)

The TPMS malfunction indicator will illuminate after it blinks for approximately one minute when there is a problem with the Tire Pressure Monitoring System.

In this case, have the system checked by a professional workshop to determine the cause of the problem. Kia recommends to visit an authorized Kia dealer/service partner.

* NOTICE

If there is a malfunction with the TPMS, the low tire pressure position telltale will not be displayed even though the vehicle has an underinflated tire.

 The TPMS malfunction indicator may blink for approximately 1 minute and then remain continuously illuminated if the vehicle is moving around electric power supply cables or radios transmitter such as at police stations, government and public offices, broadcasting stations, military installations, airports, or transmitting towers, etc. This can interfere with normal operation of the Tire Pressure Monitoring System (TPMS).

 The TPMS malfunction indicator may blink for approximately 1 minute and then remain continuously illuminated if snow chains are used or some separate electronic devices such as notebook computer, mobile charger, remote starter or navigation etc., are used in the vehicle.

This can interfere with normal operation of the Tire Pressure Monitoring System (TPMS).

Changing a tire with TPMS

If you have a flat tire, the low Tire Pressure and Position telltales will come on. In this case, have the system checked by a professional workshop. Kia recommends to visit an authorized Kia dealer/service partner.

7

A CAUTION

We recommend that you use the sealant approved by Kia. The sealant on the tire pressure sensor and wheel shall be eleminated when you replace the tire with a new one.

Each wheel is equipped with a tire pressure sensor mounted inside the tire behind the valve stem. You must use TPMS specific wheels. Have your tires serviced by a professional workshop. Kia recommends to visit an authorized Kia dealer/service partner.

If you drive the vehicle for about 10 minutes at speeds above 25 km/h after replaceing the low pressure tire with the spare tire, one of the following will happen:

- The TPMS malfunction indicator may blink for approximately 1 minute and then remain continuously illuminated because the TPMS sensor is not mounted on the spare wheel. (changed tire equipped with a sensor not in the vehicle)
- The TPMS malfunction indicator will remain continuously illuminated while driving because the TPMS sensor is not mounted on the spare wheel. (changed tire equipped with a sensor in the vehicle)

You may not be able to identify a low tire by simply looking at it.

Always use a good quality tire pressure gauge to measure the tire's inflation pressure. Please note that a tire that is hot (from being driven) will have a higher pressure measurement than a tire that is cold (from sitting stationary for at least 3 hours and 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 to the recommended pressure.

A cold tire means the vehicle has been sitting for 3 hours and driven for less than 1 mile (1.6 km) in that 3 hour period.

A CAUTION

We recommend that you use the sealant approved by Kia if your vehicle is equipped with a Tire Pressure Monitoring System. The liquid sealant can damage the tire pressure sensors.

WARNING

TPMS

- The TPMS cannot alert you to severe and sudden tire damage caused by external factors such as nails or road debris.
- If you feel any vehicle instability, immediately take your foot off the accelerator, apply the brakes

gradually and with light force, and slowly move to a safe position off the road.

A WARNING

Protecting TPMS

Tampering with, modifying, or disabling the Tire Pressure Monitoring System (TPMS) components may interfere with the system's ability to warn the driver of low tire pressure conditions and/ or TPMS malfunctions. Tampering with, modifying, or disabling the Tire Pressure Monitoring System (TPMS) components may void the warranty for that portion of the vehicle.

WARNING

For EUROPE

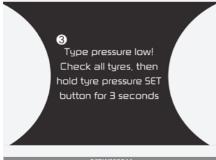
- Do not modify the vehicle, it may interfere with the TPMS function.
- The wheels on the market do not have a TPMS sensor. For your safety, use parts for replacement from a professional workshop. Kia recommends to visit an authorized Kia dealer/service partner.
- If you use the wheels on the market, use a TPMS sensor approved by an authorized Kia dealer. If your vehicle is not equipped with a TPMS sensor or TPMS does not work properly, you may fail the periodic vehicle

inspection conducted in your country.

- All vehicles sold in the EUROPE market during below period must be equipped with TPMS.
 - New model vehicle : Nov. 1, 2012~
 - Current model vehicle : Nov.
 1, 2014~ (Based on vehicle registrations)

Tire pressure monitoring system (TPMS) (Type B) (if equipped)





- Low Tire Pressure Telltale/TPMS Malfunction Indicator
- TPMS SET button
- Low Tire Pressure Telltale (Shown on the LCD display)

The TPMS on this vehicle monitors and compares the rolling radius and rotational characteristics of each wheel and tire while you are driving. And it checks whether any tire is significantly under-inflated. You should reset the system by pushing the TPMS SET button according to the procedure and store the current tire pressure.

After that, if one or more tires are significantly under-inflated, the low tire pressure indicator illuminates and a message is shown on the cluster.

Also, if there is a malfunction with the TPMS, the TPMS malfunction indicator will illuminate.

TPMS reset procedure

You should reset TPMS in below situations.

- After repairing or replacing tires (or wheels)
- After rotating tires
- After adjusting tire pressure
- When the low tire pressure indicator illuminates
- After replacing suspension or ABS system
- 1. Park the vehicle on a level, firm surface.
- 2. Inflate the tires to the proper pressure as indicated on the vehicle's placard or tire inflation pressure label located on the driver's side center pillar outer panel.
- 3. Starting the engine, press and hold the TPMS SET button for about three seconds to reset TPMS.

The reset process completes automatically.



- 4. Then check that the low tire pressure indicator turns off after blinking for four seconds. In case of supervision cluster, check that "Tire pressures stored" message is shown on the cluster.
- 5. After resetting the TPMS, drive the vehicle for approximately 20 minutes to store the new tire pressure in the system.
- * If the low tire pressure indicator turns on repeat step 3.

When resetting TPMS, the current tire pressure is stored as a standard tire pressure.

A CAUTION

• Without inflating the tires, if you reset TPMS, the system may not inform you properly even though the tires are significantly underinflated. You must check the proper tire pressure before resetting TPMS.

- The TPMS may not function properly if you do not reset TPMS although the TPMS needs to be reset.
- If you push the TPMS reset button while driving, the TPMS reset process is not activated. You must push the TPMS reset button while the vehicle is at a complete stop.
- Tire pressure should be checked and inflated while the tires are cold.

A cold tire means the vehicle has been sitting for 3 hours and driven for less than 1.6 km (1 mile) in that 3 hour period.

Tire pressure monitoring system

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.).

▲ WARNING

Over-inflation or under-inflation can reduce tire life, adversely affect vehicle handling, and lead to sudden tire failure that may cause loss

of vehicle control resulting in an accident.

As an added safety feature, your vehicle has been equipped with a tire pressure monitoring system (TPMS) that illuminates a low tire pressure telltale when one or more of your tires is significantly underinflated. Accordingly, when the low tire pressure telltale illuminates, you should stop and check your tires as soon as possible, and inflate them to the proper pressure. Driving on a significantly under-inflated tire causes the tire to overheat and can lead to tire failure.

Under-inflation also reduces fuel efficiency and tire tread life, and may affect the vehicle's handling and stopping ability.

Please note that the TPMS is not a substitute for proper tire maintenance, and it is the driver's responsibility to maintain correct tire pressure, even if under-inflation has not reached the level to trigger illumination of the TPMS low tire pressure telltale.

Your vehicle has also been equipped with a TPMS malfunction indicator to indicate when the system is not operating properly. The TPMS malfunction indicator is combined with the low tire pressure telltale. When the system detects a malfunction, the telltale will flash for approximately one minute and then remain continuously illuminated. This sequence will continue upon subsequent vehicle start-ups as long as the malfunction exists.

When the malfunction indicator is illuminated, the system may not be able to detect or signal low tire pressure as intended. TPMS malfunctions may occur for a variety of reasons, including the installation of replacement or alternate tires or wheels on the vehicle that prevent the TPMS from functioning properly.

Always check the TPMS malfunction telltale after replacing one or more tires or wheels on your vehicle to ensure that the replacement or alternate tires and wheels allow the TPMS to continue to function properly.

* NOTICE

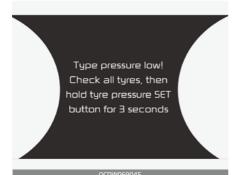
If any of the below happens, have the system checked by an authorized Kia dealer/service partner.

- 1. The Low Tire Pressure Telltale/ TPMS Malfunction Indicator does not illuminate for 3 seconds when the ignition switch is placed to the ON position or engine is running.
- 2. The TPMS Malfunction Indicator remains illuminated after blinking for approximately 1 minute.

3. The Low Tire Pressure Position Telltale remains illuminated.

Low tire pressure telltale $\langle \underline{!} \rangle$

Low tire pressure position telltale and tire pressure telltale



When the tire pressure monitoring system warning indicators are illuminated and warning message displayed on the cluster LCD display, one or more of your tires is significantly under-inflated. The Low Tire Pressure Position Telltale will indicate which tire is significantly underinflated.

If either telltale illuminates, immediately reduce your speed, avoid hard cornering and anticipate increased stopping distances. You should stop and check your tires as soon as possible. Inflate the tires to the proper pressure as indicated on the vehicle's placard or tire inflation pressure label located on the driver's side center pillar outer panel. Then, reset TPMS according TPMS reset procedure.

Tire pressure monitoring system (TPMS)

(Type B)

If you cannot reach a service station or if the tire cannot hold the newly added air, replace the low pressure tire with the spare tire.

The Low Tire Pressure Telltale will remain on and the TPMS Malfunction Indicator may blink for one minute and then remain illuminated until you have the low pressure tire repaired and replaced on the vehicle.

In winter or cold weather, the Low Tire Pressure Telltale may be illuminated if the tire pressure was adjusted to the recommended tire inflation pressure in warm weather. It does not mean your TPMS is malfunctioning because the decreased temperature leads to a proportional lowering of tire pressure.

When you drive your vehicle from a warm area to a cold area or from a cold area to a warm area, or the outside temperature is greatly higher or lower, you should check the tire inflation pressure and adjust the tires to the recommended tire inflation pressure.

Then, reset TPMS according TPMS reset procedure.

The TPMS may not calibrate properly in below conditions.

- You do not reset TPMS properly.
- You do not use original tires.
- You drive on snowy or slippery roads.
- You rapidly accelerate, decelerate or turn the steering wheel.
- Driving too slow or too fast.
- There is heavier and uneven load on the tires.
- Spare tire or snow chains are used.

A WARNING

Low pressure damage

Significantly low tire pressure makes the vehicle unstable and can contribute to loss of vehicle control and increased braking distances. Continued driving on low pressure tires can cause the tires to overheat and fail.

IF YOU HAVE A FLAT TIRE (WITH SPARE TIRE, IF EQUIPPED)

Jack and tools

5 Door



Wagon



Shooting Brake



CUV



The jack, jack handle, wheel lug nut wrench are stored in the luggage compartment.

Pull up the luggage box cover to reach this equipment.

- 1. lack handle
- 2. lack
- 3. Wheel lug nut wrench

Jacking instructions

The jack is provided for emergency tire changing only.

To prevent the jack from "rattling" while the vehicle is in motion, store it properly.

Follow jacking instructions to reduce the possibility of personal injury.

WARNING

Changing tires

- · Never attempt vehicle repairs in the traffic lanes of a public road or highway.
- · Always move the vehicle completely off the road and onto the shoulder before trying to change a tire. The jack should be used on firm level ground. If you cannot find a firm level place off the road, call a towing service company for assistance.
- Be sure to use the correct front and rear jacking positions on the vehicle; never use the bumpers or any other part of the vehicle for jacking support.
- The vehicle can roll off the jack causing serious injury or death.
- Do not get under a vehicle that is supported by a jack.
- Do not start or run the engine while the vehicle is on the jack.
- Do not allow anyone 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 from the vehicle to be raised with the jack.

Removing and storing the spare tire



Turn the tire hold-down wing bolt counterclockwise to remove. Store the tire in the reverse order of removal.

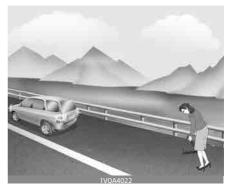
To prevent the spare tire and tools from "rattling" while the vehicle is in motion, store them properly.

A WARNING

Ensure the spare tire retainer is properly aligned with the center of the spare tire to prevent the spare tire from "rattling".

Otherwise, it may cause the spare tire to fall off the carrier and lead to an accident.

Changing tires



- 1. Park on a level surface and apply the parking brake firmly.
- 2. Shift the shift lever into R (Reverse) with manual transmission.
- 3. Activate the hazard warning flasher.



- 4. Remove the wheel lug nut wrench, jack, jack handle, and spare tire from the vehicle.
- 5. Block both the front and rear of wheel that is diagonally opposite the jack position.

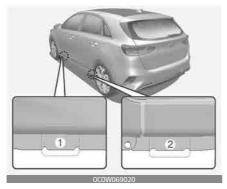


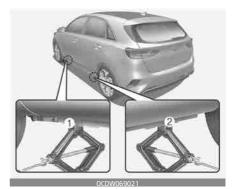
Changing a tire

- To prevent vehicle movement while changing a tire, always set the parking brake fully, and always block the wheel diagonally opposite the wheel being changed.
- We recommend that the wheels of the vehicle be chocked, and that no person remain in a vehicle that is being jacked.



6. Loosen the wheel lug nuts counterclockwise one turn each, but do not remove any nut until the tire has been raised off the ground.





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 raised dot to index with the jack.

WARNING

Jack location

To reduce the possibility of injury, be sure to use only the jack provided with the vehicle and in the correct jack position; never use any other part of the vehicle for jack support.

8. Insert the jack handle into the jack and turn it clockwise, raising the vehicle until the tire just clears the ground. This measurement is approximately 30 mm (1.2 in). Before removing the wheel lug nuts, make sure the vehicle is stable and that there is no chance for movement or slippage. 7



 Loosen the wheel nuts and remove them with your fingers. 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 up the holes with the studs and slide the wheel onto them.

If this is difficult, tip the wheel slightly and get the top hole in the wheel lined up with the top stud. Then jiggle the wheel back and forth until the wheel can be slid over the other studs.

A WARNING



Wheels may have sharp edges. Handle them carefully to avoid possible severe injury. Before putting the wheel into place, be sure that there is nothing on the hub or wheel (such as mud, tar, gravel, etc.) that interferes with the wheel from fitting solidly against the hub. If there is, remove it. If there is not good contact on the mounting surface between the wheel and hub, 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. This may cause serious injury or death.

- 10. To reinstall the wheel, hold it on the studs, put the wheel nuts on the studs and tighten them finger tight. Jiggle the tire to be sure it is completely seated, then tighten the nuts as much as possible with your fingers again.
- 11. Lower the vehicle to the ground by turning the wheel nut wrench counterclockwise.



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Then position the wrench as shown in the drawing and tighten the wheel nuts. Be 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 other nut until they are all tight. Then doublecheck each nut for tightness. After changing wheels, have the system checked by a professional workshop. Kia recommends to visit an authorized Kia dealer/service partner.

Wheel nut tightening torque:

Steel wheel & aluminum alloy wheel:

11~13 kgf·m (79~94 lbf·ft)

If you have a tire gauge, remove the valve cap and check the air pressure. If the pressure is lower than recommended, drive slowly to the nearest service station and inflate to the correct pressure. If it is too high, adjust it until it is correct. Always reinstall the valve cap after checking or adjusting tire pressure. If the cap is not replaced, air may leak from the tire. If you lose a valve cap, buy another and install it as soon as possible.

After you have changed wheels, always secure the flat tire in its place and return the jack and tools to their proper storage locations.

A CAUTION

Your vehicle has metric threads on the wheel studs and nuts. Make certain during wheel removal that the same nuts that were removed are reinstalled – or, if replaced, that nuts with metric threads and the same chamfer configuration are used. Installation of a non-metric thread nut on a metric stud or viceversa will not secure the wheel to the hub properly and will damage the stud so that it must be replaced. Note that most lug nuts do not have metric threads. Be sure to use extreme care in checking for thread style before installing aftermarket lug nuts or wheels. If in doubt, consult a professional workshop. Kia recommends to consult an authorized Kia dealer/service partner.

A WARNING

If the studs are damaged, they may lose their ability to retain the wheel. This could lead to the loss of the wheel and a collision resulting in serious injuries.

To prevent the jack, jack handle, wheel lug nut wrench and spare tire from rattling while the vehicle is in motion, store them properly.

WARNING

Inadequate spare tire pressure

Check the inflation pressures as soon as possible after installing the spare tire. Adjust it to the specified pressure, if necessary. Refer to "Tires and wheels (5 Door, Wagon, 7

Shooting brake)" on page 9-6, "Tires and wheels (CUV)" on page 9-7.

Important - use of compact spare tire (if equipped)

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 is designed for temporary use only.

A CAUTION

- You should drive carefully when the compact spare is in use. The compact spare should be replaced by the proper conventional tire and rim at the first opportunity.
- The operation of this vehicle is not recommended with more than one compact spare tire in use at the same time.

A WARNING

The compact spare tire is for emergency use only. Do not operate your vehicle on this compact spare at the speed over 80 km/h (50 mph). The original tire should be repaired or replaced as soon as possible to avoid failure of the spare possibly leading to personal injury or death.

The compact spare should be inflated to 420 kPa (60 psi).

A CAUTION

Check the inflation pressure after installing the spare tire. Adjust it to the specified pressure, as necessary.

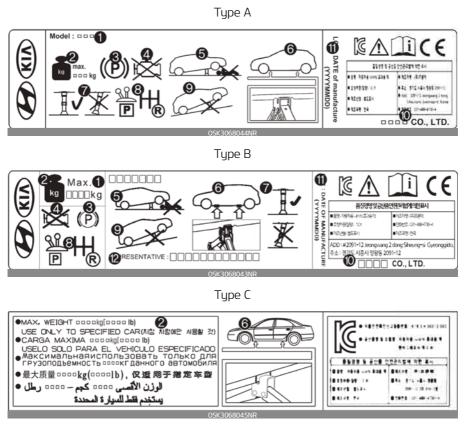
When using a compact spare tire, observe the following precautions:

- Under no circumstances should you exceed 80 km/h (50 mph); a higher speed could damage the tire.
- Ensure that you drive slowly enough to avoid all hazards. Any road hazard, such as a pothole or debris, could seriously damage the compact spare.
- Any continuous road use of this tire could result in tire failure, loss of vehicle control, and possible personal injury.
- Do not exceed the vehicle's maximum load rating or the loadcarrying 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 2.5 cm (1 inch), which could result in damage to the vehicle.
- Do not take the vehicle through an automatic car wash while the compact spare tire is installed.
- Do not use tire chains on the temporary compact tire. Because of the smaller size, a tire chain

will not fit properly. This could damage the vehicle and result in loss of the chain.

- Temporary compact tire should not be installed on the front axle if the vehicle must be driven in snow or on ice.
- Do not use the temporary compact tire on any other vehicle because this tire has been designed especially for your vehicle.
- The temporary compact tire tread life is shorter than a regular tire. Inspect your temporary compact tire regularly and replace worn compact spare tires with the same size and design, mounted on the same wheel.
- The temporary compact tire should not be used on any other wheels, nor should standard tires, snow tires, wheel covers or trim rings be used with the temporary compact spare wheel. If such use is attempted, damage to these items or other car components may occur.
- Do not use more than one temporary compact tire at a time.
- Do not tow a trailer while the temporary compact tire is installed.

Jack label



- * The actual Jack label in the vehicle may differ from the illustration. For more detailed specifications, refer to the label attached to the jack.
- 1. Model Name
- 2. Maximum allowable load
- 3. When using the jack, set your parking brake.
- 4. When using the jack, stop the engine.
- 5. Do not get under a vehicle that is supported by a jack.
- 6. The designated locations under the frame
- 7. When supporting the vehicle, the base plate of jack must be vertical under the lifting point.
- 8. Shift into Reverse gear on vehicles with manual transmission.
- 9. The jack should be used on firm level ground.

- 10. Jack manufacturer
- 11. Production date
- 12. Representative company and address

EC Declaration of Conformity for Jack

EC Declaration of Conformity according to EC Machinery Directive 2006/42/EC		
2091-12 Jeongw	ang 2(i)-dong Siheung-si Gyeonggi-d ,Korea	
declare under our	sole responsibility that the product	
Product	: JACK-ASSY	
Type Designatio	en(s) : 1200KG, 1000KG, 800KG, 700KG, 500KG	
Serial No.	: N/A (prototype)	
Year of Manufac	ture : 2013	
to which this decl	aration relates is in conformity with the following standard(s) or other normative	
document(s);		
EN ISO12100	Safety of machinery - General principles for design - Risk assessmen	
(2010)	and risk reduction	
EN 1494/A1	Mobile or movable jacks and associated lifting equipment	
(2008)		
following the provi	ision of Direction(c):	
2006/42/EC	isions of Directive(s); Directive on the approximation of the laws of Member States relating to	
2000/42/20	machinery (OJ L157 Jun, 9, 2006)	
	4	
	A	
	ggi-d ,Korea / 15.07.2013 SOO HONG, MIN President	
(Place and date o	f issue)(Name and signature or equivalent making of authorized person)	
* T.C.F Compiling	Location:	
- Address: PRII	30RSKA 280, 739 42 FRYDEK MISTEK, CHLEBOVICE, CZECH REPUBLIC	
- Team: Purcha	se team	

Shooting Brake

IF YOU HAVE A FLAT TIRE (WITH TIRE MOBILITY KIT, IF EQUIPPED)

5 Door



Wagon





CUV



Please read the instructions before using the Tire Mobility Kit.

- 1. Compressor
- 2. Sealant bottle

The Tire Mobility Kit is a temporary fix to the tire and have the tire inspected by a professional workshop as soon as possible. Kia recommends to visit an authorized Kia dealer/service partner.

A CAUTION

One sealant for one tire

When two or more tires are flat, do not use the tire mobility kit because the supported one sealant of Tire Mobility Kit is only used for one flat tire.

WARNING

Tire wall

Do not use the Tire Mobility Kit to repair punctures in the tire walls. This can result in an accident due to tire failure.

A WARNING

Temporary fix

Have your tire repaired as soon as possible. The tire may lose air pressure at any time after inflating with the Tire Mobility Kit.

A CAUTION

- When replacing or repairing the tire after using tire sealant, make certain to remove the sealant attached to the inner part of the tire and wheel. If the sealant is not removed, noise and vibration may occur.
- We recommend use original Kia manufactured sealant.
- If the TPMS warning light illuminates after using the TMK, have your vehicle inspected by a professional workshop. Kia recommends to contact an

authorized Kia dealer/service partner.

Introduction



With the Tire Mobility Kit (TMK) you stay mobile even after experiencing a tire puncture.

The system of compressor and sealing compound effectively and comfortably seals most punctures in a passenger car tire caused by nails or similar objects and reinflates the tire.

After you ensured that the tire is properly sealed you can drive cautiously on the tire (up to 200 km (120 miles)) at a max. speed of 80 km/h (50 mph) in order to reach a vehicle or tire dealer to have the tire replaced.

It is possible that some tires, especially with larger punctures or damage to the sidewall, cannot be sealed completely.

Air pressure loss in the tire may adversely affect tire performance.

For this reason, you should avoid abrupt steering or other driving maneuvers, especially if the vehicle is heavily loaded or if a trailer is in use.

The TMK is not designed or intended as a permanent tire repair method and is to be used for one tire only.

This instruction shows you step by step how to temporarily seal the puncture simply and reliably.

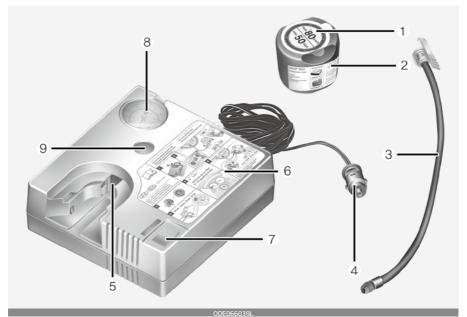
Read the section "Notes on the safe use of the TMK".

A WARNING



Do not use the TMK if a tire is severely damaged by driving run flat or with insufficient air pressure. Only punctured areas located within the tread region of the tire can be sealed using the TMK.

Components of the Tire Mobility Kit (TMK)



- 1. Speed restriction label
- 2. Sealant bottle and label with speed restriction
- 3. Filling hose from sealant bottle to wheel
- 4. Connectors and cable for the power outlet direct connection
- 5. Holder for the sealant bottle
- 6. Compressor
- 7. On/off switch
- 8. Pressure gauge for displaying the tire inflation pressure
- 9. Button for reducing tire inflation pressure

Connectors, cable and connection hose are stored in the compressor housing.

A WARNING

Before using the Tire Mobility Kit, follow the instructions on the sealant bottle.

Remove the label with the speed restriction from the sealant bottle and apply it to the steering wheel. Please note the expiry date on the sealant bottle.

Using the Tire Mobility Kit

- Detach the speed restriction label (1) from the sealant bottle (2), and place it in a highly visible place inside the vehicle such as on the steering wheel to remind the driver not to drive too fast.
- 2. Filling the sealant Strictly follow the specified sequence, otherwise the sealant may escape under high pressure.
- 3. Shake the sealant bottle.



W069046

4. Connect the filling hose (3) onto the connector of the sealant bottle (A).

- 5. Ensure that button (9) on the compressor is not pressed.
- 6. Unscrew the valve cap from the valve of the defective wheel and screw filling hose (3) of the sealant bottle onto the valve.
- 7. Insert the sealant bottle into the housing of the compressor so that the bottle is upright (B).



8. Ensure that the compressor is switched off, position 0.



9. Connect between compressor and the vehicle power outlet using the cable and connectors.



Only use the front passenger side power outlet.

- 10. With the ignition switched on or ENGINE START/STOP button position on: Switch on the compressor and let it run for approximately 3 minutes to fill the sealant. The inflation pressure of the tire after filling is unimportant.
- 11. Switch off the compressor.
- 12. Detach the hose from the sealant bottle connector and from the tire valve.

Distributing the sealant

 Immediately drive approximately 7~10km (4~6miles or, about 10min) to evenly distribute the sealant in the tire.

Return the Tire Mobility Kit to its storage location in the vehicle.

A WARNING

Carbon monoxide poisoning and suffocation is possible if the engine is left running in a poorly ventilated or unventilated location (such as inside a building).

A CAUTION

Do not exceed a speed of 60 km/h (35 mph). If possible, do not fall below a speed of 20 km/h (12 mph). While driving, if you experience any unusual vibration, ride disturbance or noise, reduce your speed and drive with caution until you can safely pull off of the side of the road. Call for road side service or towing. When you use the Tire Mobility Kit, the wheel may be stained by sealant. Therefore, remove the wheel stained by sealant and have the vehicle inspected at a professional workshop. Kia recommends to visit an authorized Kia dealer/service partner.

Checking the tire inflation pressure

- After driving approximately 7~10 km (4~6 miles or about 10 minutes), stop at a suitable location.
- 2. Connect the filling hose (3) of the compressor (clip mounted side) directly and then connect the filling hose (3) (opposite side) to the tire valve.
- 3. Connect between compressor and the vehicle battery using the cable and connectors.
- 4. Adjust the tire inflation pressure to 200 kPa (29 psi). With the ignition switched on, proceed as follows.
 - To increase the inflation pressure: Switch on the compressor, position I. To check the current inflation pressure

/

setting, briefly switch off the compressor.

A WARNING



Do not let the compressor run for more than 10 minutes, otherwise the device will overheat and may be damaged.

- To reduce the inflation pressure: Press the button (9) on the compressor.

▲ CAUTION

If the inflation pressure is not maintained, drive the vehicle a second time, refer to "Checking the tire inflation pressure" on page 7-35. Then repeat steps 1 to 4. Use of the TMK may be ineffectual for tire damage larger than approximately 4 mm (0.16 in). Contact a professional workshop if the tire cannot be made roadworthy with the Tire Mobility Kit. Kia recommends to visit an authorized Kia dealer/service partner.

WARNING

The tire inflation pressure must be at least 200 kPa (29 psi). If it is not, do not continue driving. Call for road side service or towing.

Notes on the safe use of the Tire Mobility Kit

- Park your car at the side of the road so that you can work with the TMK away from moving traffic. Place your warning triangle in a prominent place to make passing vehicles aware of your location.
- To be sure your vehicle will not move, even when you're on fairly level ground, always set your parking brake.
- Only use the TMK for sealing/ inflation passenger car tires. Do not use on motorcycles, bicycles or any other type of tires.
- Do not remove any foreign objects such as nails or screws - that have penetrated the tire.
- Before using the TMK, read the precautionary advice printed on the sealant bottle!
- Provided the car is outdoors, leave the engine running. Otherwise operating the compressor may eventually drain the car battery.
- Never leave the TMK unattended while it is being used.
- Do not leave the compressor running for more than 10 min. at a time or it may overheat.
- Do not use the TMK if the ambient temperature is below -30°C (-22°F).
- When the tire and wheel are damaged, do not use Tire Mobility Kit for your safety.

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Technical Data

For 15/16 inch tire (except for CUV)

- System voltage: DC 12 V
- Working voltage: DC 10 15 V
- Amperage rating: max. 10 A
- Suitable for use at temperatures: -30 ~ +70°C (-22 ~ +158°F)
- Max. working pressure: 6 bar (87 psi)
- Size
 - Compressor: 161 x 150 x 55.8 mm (6.3 x 5.9 x 2.2 in.)
 - Sealant bottle: 81 x 85.5 ø mm (3.2 x 3.4 ø in.)
 - Compressor weight: 0.7 kg (1.5 lbs)
 - Sealant volume: 200 ml (12.2 cu. in.)

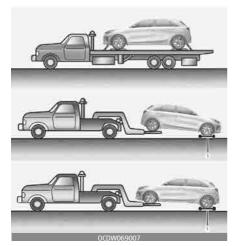
For 17/18 inch tire (including 16/18 inch tire of CUV)

- System voltage: DC 12 V
- Working voltage: DC 10 15 V
- Amperage rating: max. 15 A
- Suitable for use at temperatures: -30 ~ +70°C (-22 ~ +158°F)
- Max. working pressure: 6 bar (87 psi)
- Size
 - Compressor: 161 x 150 x 55.8 mm (6.3 x 5.9 x 2.2 in.)
 - Sealant bottle: 104 x 85 ø mm (4.1 x 3.3 ø in.)
 - Compressor weight: 0.7 kg (1.5 lbs)

- Sealant volume: 300 ml (18.3 cu. in.)
- * Sealant and spare parts can be obtained and replaced at an authorized vehicle or tire dealer. Empty sealant bottles may be disposed of at home. Liquid residue from the sealant should be disposed of by your vehicle or tire dealer or in accordance with local waste disposal regulations.

TOWING

Towing service



If emergency towing is necessary, we recommend having it done by an 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.

It is acceptable to tow the vehicle with the rear wheels on the ground (without dollies) and the front wheels off the ground.

If any of the loaded wheels or suspension components are damaged or the vehicle is being towed with the front wheels on the ground, use a towing dolly under the front wheels. When being towed by a commercial tow truck and wheel dollies are not used, the front of the vehicle should always be lifted, not the rear.



A CAUTION

- Do not tow the vehicle backwards with the front wheels on the ground as this may cause damage to the vehicle.
- Do not tow with sling-type equipment. Use wheel lift or flatbed equipment.

When towing your vehicle in an emergency without wheel dollies :

- 1. Set the ignition switch in the ACC position.
- 2. Place the transmission shift lever in N (Neutral).
- 3. Release the parking brake.

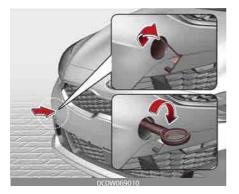
A CAUTION

TOWING

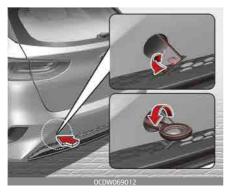
Failure to place the transmission shift lever in N (Neutral) may cause internal damage to the transmission.

Removable towing hook (if equipped)

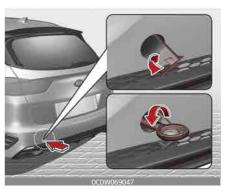
Front



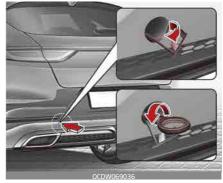
Rear (For 5 Door)



Rear (For Wagon)



Rear (For Shooting Brake)



Rear (For CUV)



1. Open the tailgate, and remove the towing hook from the tool case.

- 2. Remove the hole cover pressing the upper (front) or lower (rear) part of the cover on the bumper.
- 3. Install the towing hook by turning it clockwise into the hole until it is fully secured.
- 4. Remove the towing hook and install the cover after use.

Emergency towing

Front



Rear (For 5 Door)

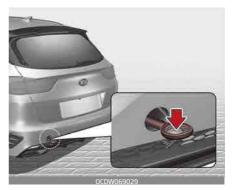


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Rear (For Shooting Brake)



Rear (For Wagon)



Rear (For CUV)



If towing is necessary, we recommend you to have it done

by an authorized Kia dealer or a commercial tow truck service.

If towing service is not available in an emergency, your vehicle may be temporarily towed using a cable or chain secured to the emergency towing hook under the front (or rear) of the vehicle. Use extreme caution when towing the vehicle. A driver must be in the vehicle to steer it and operate the brakes.

Towing in this manner may be done only on hard-surfaced roads for a short distance and at low 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.

▲ CAUTION

- 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.
- 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.

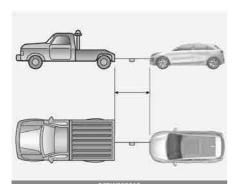
WARNING

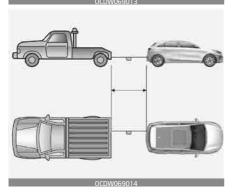
Use extreme caution when towing the vehicle.

- 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 5 m (16 feet) long. Attach a white or red cloth (about 30 cm (12 inches) wide) in the middle of the strap for easy visibility.
- 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.

Emergency towing precautions

- Turn the ignition switch to ACC so the steering wheel isn't locked.
- Place the transmission shift lever in N (Neutral).
- Release the parking bake.
- The vehicle should be towed at a speed of 25 km/h (16 mph) or less within the distance of 20 km (12 miles).
- 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.

A CAUTION

- Automatic transmission / Dual clutch transmission
- If the car is being towed with all four wheels on the ground, it can be towed only from the front. Be sure that the transmission is in neutral. Be sure the steering is unlocked by placing the ignition switch in the ACC position. A driver

must be in the towed vehicle to operate the steering and brakes.

- To avoid serious damage to the automatic transmission / dual clutch transmission, limit the vehicle speed to 15 km/h (10 mph) and drive less than 1.5 km (1 mile) when towing.
- Before towing, check the automatic transmission / dual clutch transmission for fluid leaks under your vehicle. If the automatic transmission / dual clutch transmission fluid is leaking, flatbed equipment or a towing dolly must be used.

EMERGENCY COMMODITY (IF EQUIPPED)

There are some emergency commodities in the vehicle to help you respond to the emergency situation.

Fire extinguisher (if equipped)

If there is small fire and you know how to use the fire extinguisher, take the following steps carefully.

- 1. Pull the pin at the top of the extinguisher that keeps the handle from being accidentally pressed.
- 2. Aim the nozzle toward the base of the fire.
- 3. Stand approximately 2.5 m (8 ft) away from the fire and squeeze the handle to discharge the extinguisher. If you release the handle, the discharge will stop.
- 4. Sweep the nozzle back and forth at the base of the fire. After the fire appears to be out, watch it carefully since it may re-ignite.

First aid kit (if equipped)

There are some items such as scissors, bandage and adhesive tape and etc. in the kit to give first aid to an injured person.

Triangle reflector (if equipped)

Place the triangle reflector on the road to warn oncoming vehicles

during emergencies, such as when the vehicle is parked by the roadside due to any problems.

Tire pressure gauge (If equipped)

Tires normally lose some air in dayto- day use, and you may have to add a few pounds of air periodically and it is not usually a sign of a leaking tire, but of normal wear. Always check tire pressure when the tires are cold because tire pressure increases with temperature.

To check the tire pressure, take the following steps;

- 1. Unscrew the inflation valve cap that is located on the rim of the tire.
- 2. Press and hold the gauge against the tire valve. Some air will escape as you begin and more will escape if you don't press the gauge in firmly.
- 3. A firm non-leaking push will activate the gauge.
- 4. Read the tire pressure on the gauge to know whether the tire pressure is low or high.
- 5. Adjust the tire pressures to the specified pressure. Refer to "Tires and wheels (5 Door, Wagon, Shooting brake)" on page 9-6, "Tires and wheels (CUV)" on page 9-7.
- 6. Reinstall the inflation valve cap.

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 Back up lamp (Bulb type) bulb replacement – Rear combination lamp for wagon (type A, B), CUV 	.8-95
• Back up lamp (LED type) bulb replacement - Rear	

 combination lamp for shooting brake
Headlamp and front fog lamp aiming (for Europe) 8-105
Appearance care8-118
• Exterior care
Interior care
Emission control system (if equipped)
• Lean NOx Trap

MAINTENANCE

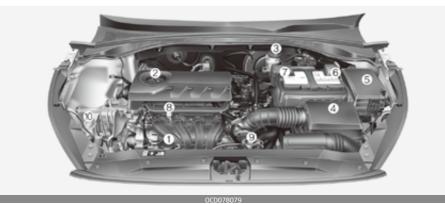
Engine compartment

Kappa 1.0L T-GDI Engine (Gasoline)



OCDW079001

Kappa 1.4L MPI Engine (Gasoline)



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

- 1. Engine coolant reservoir
- 2. Engine oil filler cap
- 3. Brake / clutch fluid reservoir
- 4. Air cleaner
- 5. Fuse box
- 6. Negative battery terminal
- 7. Positive battery terminal
- 8. Engine oil dipstick

- 9. Radiator cap
- 10. Windshield washer fluid reservoir



Kappa 1.4L T-GDI Engine (Gasoline)

OCD078080

Gamma 1.6L MPI Engine (Gasoline)



DCD078081

- * The actual engine room in the vehicle may differ from the illustration.
- 1. Engine coolant reservoir
- 2. Engine oil filler cap
- 3. Brake / clutch fluid reservoir
- 4. Air cleaner
- 5. Fuse box
- 6. Negative battery terminal
- 7. Positive battery terminal
- 8. Engine oil dipstick
- 9. Radiator cap
- 10. Windshield washer fluid reservoir



Gamma 1.6L T-GDI Engine (Gasoline)



- * The actual engine room in the vehicle may differ from the illustration.
- 1. Engine coolant reservoir
- 2. Engine oil filler cap
- 3. Brake / clutch fluid reservoir
- 4. Air cleaner
- 5. Fuse box
- 6. Negative battery terminal
- 7. Positive battery terminal
- 8. Engine oil dipstick
- 9. Radiator cap
- 10. Windshield washer fluid reservoir

8

Maintenance services

You should exercise the utmost care to prevent damage to your vehicle and injury to yourself whenever performing any maintenance or inspection procedures.

Inadequate, incomplete or insufficient servicing may result in operational problems with your vehicle that could lead to vehicle damage, an accident, or personal injury.

Owner's responsibility

* NOTICE

Maintenance Service and Record Retention are the owner's responsibility.

Have your vehicle serviced by a professional workshop. Kia recommends to visit an authorized Kia dealer/service partner.

You should retain documents that show proper maintenance has been performed on your vehicle in accordance with the scheduled maintenance service charts shown on the following pages.

You need this information to establish your compliance with the servicing and maintenance requirements of your vehicle warranties. Detailed warranty information is provided in your Warranty & Maintenance book.

Repairs and adjustments required as a result of improper maintenance or a lack of required maintenance are not covered when your vehicle is covered by warranty.

Owner maintenance precautions

Improper or incomplete service may result in problems. This section gives instructions only for the maintenance items that are easy to perform.

* NOTICE

Improper owner maintenance during the warranty period may affect warranty coverage. For details, read the separate Warranty & Maintenance book provided with the vehicle. If you're unsure about any servicing or maintenance procedure, have the system serviced by a professional workshop. Kia recommends to visit an authorized Kia dealer/service partner.

A WARNING

Maintenance work

 Performing maintenance work on a vehicle can be dangerous. You can be seriously injured while performing some maintenance procedures. If you lack sufficient knowledge and experience or the proper tools and equipment to do the work, have the system serviced by a professional workshop.

Kia recommends to visit an authorized Kia dealer/service partner.

• Working under the hood with the engine running is dangerous. It becomes even more dangerous when you wear jewelry or loose clothing. These can become entangled in moving parts and result in injury.

Therefore, if you must run the engine while working under the hood, make certain that you remove all jewelry (especially rings, bracelets, watches, and necklaces) and all neckties, scarves, and similar loose clothing before getting near the engine or cooling fans.

- A CAUTION
- Do not put heavy objects or apply excessive force on top of the engine cover (if equipped) or fuel related parts.
- When you inspect the fuel system (fuel lines and fuel injection devices), contact a professional workshop. Kia recommends to visit an authorized Kia dealer/ service partner.

- Do not drive long time with the engine cover (if equipped) removed.
- When checking the engine room, do not go near fire. Fuel, washer fluid, etc. are flammable oils that may cause fire.
- Before touching the battery, ignition cables and electrical wiring, you should disconnect the battery "-" terminal. You may get an electric shock from the electric current.
- When you remove the interior trim cover with a flat bed (-) driver, be careful not to damage the cover.
- Be careful when you replace and clean bulbs to avoid burns or electrical shock.

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Owner maintenance

The following lists are vehicle checks and inspections that should be performed at the frequencies indicated to help ensure safe, dependable operation of your vehicle.

Any adverse conditions should be brought to the attention of your dealer as soon as possible.

These Owner Maintenance Checks are generally not covered by warranties and you may be charged for labor, parts and lubricants used.

Owner maintenance schedule

When you stop for fuel:

- Check the engine oil level.
- Check the coolant level in the coolant reservoir.
- Check the windshield washer fluid level.
- Look for low or under-inflated tires.

A WARNING

Be careful when checking your engine coolant level when the engine is hot. Scalding hot coolant and steam may blow out under pressure. This could cause burns or other serious injury.

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 or looseness in the steering wheel, or change in its straightahead position.
- Notice if your vehicle constantly turns slightly or "pulls" to one side when traveling on smooth, level road.
- When stopping, listen and check for unusual sounds, pulling to one side, increased brake pedal travel or "hard-to-push" brake pedal.
- If any slipping or changes in the operation of your transmission occurs, check the transmission fluid level.
- Check manual transmission operation, including clutch operation.
- 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 engine coolant reservoir.
- Check the operation of all exterior lights, including the stoplights, turn signals and hazard warning flashers.

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- Check the inflation pressures of all tires including the spare for tires that are worn, show uneven wear, or are damaged.
- Check for loose wheel lug nuts.

At least twice a year (i.e., every Spring and Fall):

- Check the radiator, heater and air conditioning hoses for leaks or damage.
- Check the windshield washer spray and wiper operation. Clean the wiper blades with clean cloth dampened with washer fluid.
- Check the headlight alignment.
- Check the muffler, exhaust pipes, shields and clamps.
- Check the lap/shoulder belts for wear and function.

At least once a year:

- Clean the body and door drain holes.
- Lubricate the door hinges and checks, and hood hinges.
- Lubricate the door and hood locks and latches.
- Lubricate the door rubber weatherstrips.
- · Check the air conditioning system.
- · Clean the battery and terminals.
- Check the brake fluid level.

Scheduled maintenance service

Scheduled maintenance service precaution

Follow the Normal Maintenance Schedule if the vehicle is usually operated where none of the following conditions apply. If any of the following conditions apply, follow the Maintenance Under Severe Usage Conditions.

- Repeated driving short distance of less than 8 km (5 miles) in normal temperature or less than 16 km(10 miles) in freezing temperature
- Extensive engine idling or low speed driving for long distances
- Driving on rough, dusty, muddy, unpaved, graveled or salt-spread roads
- Driving in areas using salt or other corrosive materials or in very cold weather
- Driving in heavy dust condition
- Driving in heavy traffic area
- Driving on uphill, downhill, or mountain road repeatedly
- Towing a trailer or using a camper, or roof rack
- Driving as a patrol car, taxi, other commercial use of vehicle towing
- Driving over 170 km/h (106 mile/h)
- Frequently driving in stop-and-go condition

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If your vehicle is operated under the above conditions, you should inspect, replace or refill more frequently than the following Normal Maintenance Schedule. After the periods or distance shown in the chart, continue to follow the prescribed maintenance intervals.

Normal maintenance schedule - for Europe (Except Russia)

The following maintenance services must be performed to ensure good emission control and performance. Keep receipts for all vehicle emission services to protect your warranty. Where both mileage and time are shown, the frequency of service is determined by whichever occurs first.

NO.	ITEM	REMARK
*1	Engine oil and engine oil filter	Check the engine oil level and leak every 500 km (350 miles) or before starting a long trip.
* 2	Engine oil and engine oil filter (For Diesel Engine, Europe)	 If the recommended oil is not available, replace engine oil and engine oil filter every 20,000 km (13,000 miles) or 12 months. The engine oil level should be checked regularly and maintained properly. Operating with an insufficient amount oil can damage the engine, and such damage is not covered by warranty. This maintenance schedule depends on fuel quality. It is applicable only when using a qualified fuel <"EN590 or equivalent">. If the diesel fuel specifications don't meet the EN590, it must be replaced according to the severe maintenance schedule.
* 3	Coolant (Engine)	When adding coolant, use only deionized water or soft water for your vehicle and never mix hard water in the coolant filled at the factory. An improper coolant mixture can result in serious malfunction or engine damage.
* 4	Drive belts (Engine)	 Adjust alternator, water pump and air conditioner drive belt. Inspect and if necessary repair or replace. Inspect drive belt tensioner, idler and alternator pulley and if necessary correct or replace.
* 5	Valve clearance	Inspect for excessive valve noise and/or engine vibration and adjust if necessary. In this case, have the system checked by a professional workshop. Kia recommends to visit an authorized Kia dealer/service partner.
* 6	Spark plug	For your convenience, it can be replaced prior to it's interval when you do maintenance of other items.
* 7	Manual transmission fluid	Manual transmission fluid should be changed anytime it has been submerged in water.
*8	Dual clutch transmission (DCT) fluid	Dual clutch transmission (DCT) fluid should be changed anytime it has been submerged in water.

NO.	ITEM	REMARK
* 9	Fuel additives (Gasoline)	Kia recommends that you use unleaded gasoline which has an octane rating of RON (Research Octane Number) 95 / AKI (Anti Knock Index) 91 or higher (for Europe) or Octane Rating of RON (Research Octane Number) 91 / AKI (Anti-Knock Index) 87 or higher (except Europe). For customers who do not use good quality gasolines including fuel additives regularly, and have problems starting or the engine does not run smoothly, one bottle of additives should be added to the fuel tank at every 15,000 km (10,000 miles) (for Europe, Australia and New Zealand)/10,000 km (6,500 miles) (except Europe, Australia and New Zealand, China, Brazil)/ 5,000 km (3,000 miles) (for China, Brazil). Additives are available from a professional workshop along with information on how to use them. Kia recommends to visit an authorized Kia dealer/service partner. Do not mix other additives.
* 10	Fuel filter cartridge (Diesel)	This maintenance schedule depends on fuel quality. It is applicable only when using a qualified fuel <"EN590 or equivalent">. If the diesel fuel specifications don't meet the EN590, it must be replaced more frequently. If there are some important safety matters like fuel flow restriction, surging, loss of power, hard starting problem etc., replace the fuel filter immediately regardless of maintenance schedule and consult a professional workshop for more details. Kia recommends to consult an authorized Kia dealer/service partner.

I: Inspect and if necessary, adjust, correct, clean or replace.

R: Replace or change.

	Normal Maintenance Schedule - For Europe (Except Russia)									
MAINTENANCE INTERVALS / MAINTENANCE ITEM	Number of months or driving distance, whichever comes first									
		Months	24	48	72	96	120	144	168	192
	N	/lilesx1,000	20	40	60	80	100	120	140	160
	l	Kmx1,000	30	60	90	120	150	180	210	240
	Gasoline	Kappa 1.0L T-GDI	Replace every 15,000 km (10,000 miles) or 12 months							
	Gasoline	Kappa 1.4L MPI	Replace every 15,000 km (10,000 miles) or 12 months							
Engine oil and engine oil filter *1, *2	Gasoline	Kappa 1.4L T-GDI	Replace every 15,000 km (10,000 miles) or 12 months							
	Gasoline	Gamma 1.6L ALL	Rep	lace e	very	,) km (onths	10,000) miles	i) or
	Diesel	SmartStream D 1.6	R	R	R	R	R	R	R	R

	Normal Maintenance Schedule - For Europe (Except Russia)									
MAINTENANCE	Nu	umber of months or	drivin	g dista	ance, \	whiche	ever co	omes f	irst	
INTERVALS /	Months			48	72	96	120	144	168	192
MAINTENANCE ITEM	Milesx1,000			40	60	80	100	120	140	160
		Kmx1,000	30	60	90	120	150	180	210	240
Coolant (Engine) *3	Gasoline, I	Gasoline, Diesel			nonth	s afte	r that,	n (140, Repla or 24	ce eve	ery
Drive belts (Engine) *4	Gasoline, I	Gasoline, Diesel			s afte	r that	, Inspe	60,000 ect eve 24 moi	ery 30,	
Timing belt	Diesel	iesel SmartStream D 1.6			every	120,00	00 km	(80,00	00 mile	es)
Timing belt system (Timing belt, Oil belt, Tensioner, Idler)	Diesel	iesel SmartStream D 1.6			every 2	240,00)0 km	(160,0)00 mi	iles)
	Gasoline	Kappa 1.0L T-GDI	-	-	I	-	-	I	-	-
Valve clearance *5	Gasoline	Gamma 1.6L ALL	-	-	1	-	-	1	-	-
Vacuum hoses and crankcase ventilation hoses	Gasoline	Gasoline			I	I	I	I	I	I
	Gasoline	Kappa 1.0L T-GDI	Replace every 75,000 km (50,000 miles)							
	Gasoline	Kappa 1.4L MPI	Rep	lace e	every	150,00)0 km	(100,0)00 mi	iles)
Spark plugs *6	Gasoline	Kappa 1.4L T-GDI	Re	eplace	every	75,00)0 km	(50,00)0 mile	es)
Spark plags 0	Gasoline	Gamma 1.6L MPI	Re	eplace	every	60,00)0 km	(40,00)0 mile	es)
	Gasoline	Gamma 1.6L T-GDI	Re	place	every	75,00)0 km	(50,00)0 mile	<u>e</u> s)
Automatic transmis- sion fluid	Gasoline,	Diesel		No	check	k, No s	ervice	requii	ed	
Manual transmission fluid *7	Gasoline, I	Diesel	-	I	-	I	-	I	-	
Dual clutch transmission (DCT) fluid (if equipped) *8	Gasoline, I	Gasoline, Diesel		I	-	I	-	I	-	
Drive shaft and boots	Gasoline,	I	I	I	I	I	I	Ι		
Fuel additives (Gaso- line) *9	Gasoline		Ado	l ever	y 15,C		า (10,0 nths)00 mi	les) or	12
Fuel lines, hoses and	Gasoline		-	I	-	I	-	I	-	
connections	Diesel	Diesel			I	I	I	I	Ι	I

	Normal Maintenance Schedule - For Europe (Except Russi									
MAINTENANCE	Nu	mber of months or	drivin	g dista	ance, v	whiche	ever co	omes f	irst	
INTERVALS /		Months	24	48	72	96	120	144	168	192
MAINTENANCE ITEM	N	1ilesx1,000	20	40	60	80	100	120	140	160
	I	<mx1,000< th=""><th>30</th><th>60</th><th>90</th><th>120</th><th>150</th><th>180</th><th>210</th><th>240</th></mx1,000<>	30	60	90	120	150	180	210	240
Fuel tank air filter (Gasoline)	Gasoline	-	I	-	I	-	I	-	I	
Vapor hose and fuel filler cap (Gasoline)	Gasoline		-	I	-	I	-	I	-	I
Fuel filler cap (Diesel)	Diesel		-	I	-	I	-	I	-	I
Urea solution line & connections (if equipped)	Diesel		I	1		I	I	I	1	
Urea solution filler cap (if equipped)	Diesel	-	1	-		-	I	-		
Fuel filter cartridge (Diesel) *10	Diesel		I	R	1	R	I	R		R
Air cleaner filter	Gasoline, [Diesel	1	R	Ι	R		R	I	R
Intercooler, in/out hose, air intake hose	Gasoline	T-GDI ALL	Inspect every 15,000 km (10,000 miles) or 12 months							
Exhaust system	Gasoline, [Diesel	I	I	I	I	I	I	I	I
Cooling system	Gasoline, [Diesel	-	Ι	Ι	I	I	I	I	I
Air conditioner compressor/ refrigerant	Gasoline, [Diesel	I	I	I	I	I	I	I	1
Climate control air filter	Gasoline, [Diesel	R	R	R	R	R	R	R	R
Brake discs and pads	Gasoline, [Diesel	I		1	I	1	I	1	1
Brake lines, hoses and connections	Gasoline, [Diesel	I	I	I	I	I	I	I	I
Brake fluid	Gasoline, [Diesel	R	R	R	R	R	R	R	R
Parking brake (Hand type)	Gasoline, Diesel		I	I	I	I	I	I	I	
Steering gear rack, linkage and boots	Gasoline, Diesel		I	I	I	I	I	I	I	
Suspension ball joints	Gasoline, [Diesel	I	I	I	I	I	I	I	
Tire (pressure & tread wear)	Gasoline, [Diesel	I	I	I	I	Ι	I	I	I

	Normal Maintenance Schedule - For Europe (Except Russia)										
MAINTENANCE	Number of months or	Number of months or driving distance, whichever comes first									
INTERVALS /	Months	24	48	72	96	120	144	168	192		
MAINTENANCE ITEM	Milesx1,000	20	40	60	80	100	120	140	160		
	Kmx1,000	30	60	90	120	150	180	210	240		
Battery (12V) condition	Gasoline, Diesel	I	I	I	Ι	Ι	I	-	I		
Pan-European eCall s	Replace every 3 years.										

Maintenance under severe usage conditions - for Europe (Except Russia)

Maintenance operation

I: Inspect and if necessary, adjust, correct, clean or replace.

R: Replace or change.

MAINTEI	NANCE ITEI	М	MAINTE- NANCE OPERATION	MAINTENANCE INTERVALS	Driving Condition				
	Gasoline	Kappa 1.4L MPI	R	Every 7,500 km (5,000 miles) or 6 months					
Engine oil and	Gasoline	Gamma 1.6L MPI	R	Every 7,500 km (5,000 miles) or 6 months	A, B, C, D,				
engine oil filter	Gasoline	T-GDI ALL	R	Every 7,500 km (5,000 miles) or 6 months	E, F, G, H, I, J, K				
	Diesel	Smart- Stream D 1.6	R	Every 15,000 km (10,000 miles) or 12 months					
Spark plugs	Gas	oline	R	Replace more frequently depending on the condition	B, H, I, K				
Automatic transmission fluid	Gasolin	e, Diesel	R	Every 90,000 km (60,000 miles)	A, C, D, E, F, G, H, I, J				
Manual transmission fluid	Gasolin	e, Diesel	R	Every 120,000 km (80,000 miles)	C, D, E, F, G, H, I, J				
Dual clutch transmission (DCT) fluid	Gasoline, Diesel		Gasoline, Diesel		R	Every 120,000 km (80,000 miles)	C, D, E, F, G, H, I, J		
Drive shaft and boots	Gasoline Diesel		I	Inspect more frequently depending on the condition	C, D, E, F, G, H, I, J				
Air cleaner filter	Gasoline, Diesel		Gasoline, Diesel		aner filter Gasoline, Diesel		R	Replace more frequently depending on the condition	C, E
Climate control air filter	Gasoline, Diesel		Gasoline, Diesel		R	Replace more frequently depending on the condition	C, E, G		
Brake discs and pads, calipers and rotors	Gasoline, Diesel				I	Inspect more frequently depending on the condition	C, D, E, G, H		
Parking brake (Hand type)	Gasolin	e, Diesel	I	Inspect more frequently depending on the condition	C, D, G, H				

MAINTE	NANCE ITEM	MAINTE- NANCE OPERATION	MAINTENANCE INTERVALS	DRIVING CONDITION	
Steering gear rack, linkage and boots	Gasoline, Diesel	I	Inspect more frequently depending on the condition	C, D, E, F, G	
Suspension ball joints	Gasoline, Diesel	I	Inspect more frequently depending on the condition	C, D, E, F, G	

Severe driving conditions

A: Repeatedly driving short distance of less than 8 km (5miles) in normal temperature or less than 16 km (10 miles) in freezing temperature.

B: Extensive engine idling or low speed driving for long distances.

C: Driving on rough, dusty, muddy, unpaved, graveled or saltspread roads.

D: Driving in areas using salt or other corrosive materials or in very cold weather

E: Driving in heavy dust condition.

F: Driving in heavy traffic area.

G: Driving on uphill, downhill, or mountain roads repeatedly.

H: Towing a trailer or using a camper on roof rack.

I: Driving for patrol car, taxi, other commercial use of vehicle towing.

J: Driving over 170 km/h (106 mile/h).

K: Frequently driving in stop-and-go conditions.

Normal maintenance schedule - except Europe (Including Russia)

The following maintenance services must be performed to ensure good emission control and performance. Keep receipts for all vehicle emission services to protect your warranty. Where both mileage and time are shown, the frequency of service is determined by whichever occurs first.

NO.	ITEM	REMARK
* 1	Engine oil and engine oil filter	Check the engine oil level and leak every 500 km (350 miles) or before starting a long trip.
* 2	Engine oil and engine oil filter (For Diesel Engine, Europe)	 If the recommended oil is not available, replace engine oil and engine oil filter every 20,000 km(13,000 miles) or 12 months. The engine oil level should be checked regularly and maintained properly. Operating with an insufficient amount oil can damage the engine, and such damage is not covered by warranty. This maintenance schedule depends on fuel quality. It is applicable only when using a qualified fuel <"EN590 or equivalent">. If the diesel fuel specifications don't meet the EN590, it must be replaced according to the severe maintenance schedule.
*3	Coolant (Engine)	When adding coolant, use only deionized water or soft water for your vehicle and never mix hard water in the coolant filled at the factory. An improper coolant mixture can result in serious malfunction or engine damage.
* 4	Drive belts (Engine)	 Adjust alternator, water pump and air conditioner drive belt. Inspect and if necessary repair or replace. Inspect drive belt tensioner, idler and alternator pulley and if necessary correct or replace.
* 5	Valve clearance	Inspect for excessive valve noise and/or engine vibration and adjust if necessary. In this case, have the system checked by a professional workshop. Kia recommends to visit an authorized Kia dealer/service partner.
*6	Spark plug	For your convenience, it can be replaced prior to it's interval when you do maintenance of other items.
* 7	Manual transmission fluid	Manual transmission fluid should be changed anytime it has been submerged in water.
*8	Dual clutch transmission (DCT) fluid	Dual clutch transmission (DCT) fluid should be changed anytime it has been submerged in water.

NO.	ITEM	REMARK
* 9	Fuel additives (Gasoline)	Kia recommends that you use unleaded gasoline which has an octane rating of RON (Research Octane Number) 95 / AKI (Anti Knock Index) 91 or higher (for Europe) or Octane Rating of RON (Research Octane Number) 91 / AKI (Anti- Knock Index) 87 or higher (except Europe). For customers who do not use good quality gasolines including fuel additives regularly, and have problems starting or the engine does not run smoothly, one bottle of additives should be added to the fuel tank at every 15,000 km (10,000 miles) (for Europe, Australia and New Zealand)/10,000 km (6,500 miles) (except Europe, Australia and New Zealand, China, Brazil)/5,000 km (3,000 miles) (for China, Brazil). Additives are available from a professional workshop along with information on how to use them. Kia recommends to visit an authorized Kia dealer/service partner. Do not mix other additives.
* 10	Fuel filter cartridge (Diesel)	This maintenance schedule depends on fuel quality. It is applicable only when using a qualified fuel <"EN590 or equivalent">. If the diesel fuel specifications don't meet the EN590, it must be replaced more frequently. If there are some important safety matters like fuel flow restriction, surging, loss of power, hard starting problem etc., replace the fuel filter immediately regardless of maintenance schedule and consult a professional workshop for more details. Kia recommends to consult an authorized Kia dealer/service partner.

I: Inspect and if necessary, adjust, correct, clean or replace.

R: Replace or change.

MAINTE-	NORMAL MAINTENANCE SCHEDULE - EXCEPT EUROPE (INCLUDING RUSSIA)											
NANCE		Numbe	ing distance, whichever comes first									
INTERVALS / MAINTE-	Months			12 10	24	36	48	60	72	84	96	
NANCE ITEM	Milesx1,000				20	30	40	50	60	70	80	
		15	30	45	60	75	90	105	120			
	Gasoline	Kappa 1.0L	Except China	Replace every 10,000 km (6,500 miles) or 12 months								
		T-GDI	For China	Replace every 5,000 km (3,000 miles) or 6 months								
Engine oil and engine oil filter *1	Gasoline Kappa MPI		Except Middle East, India, Libia, Algeria, Morocco, Tunisia, Sudan, Egypt, Iran, Brazil, Central & South America, China	Replace every 15,000 km (10,000 miles) or 12 months								
		1.4L	For Middle East, India, Libia, Algeria, Morocco, Tunisia, Sudan, Egypt, Iran, Brazil, Central & South America	Replace every 15,000 km (10,000 miles)							s) or	
			For China	Replace every 5,000 km (3,000 miles) o months							or 6	
	Gasoline 1.4L	ine I.4L T-GDI For China		Replace every 10,000 km (6,500 miles) or 1. months								
				Replace every 5,000 km (3,000 miles) of months							or 6	

	NORMAL MAINTENANCE SCHEDULE - EXCEPT EUROPE (INCLUDING RUSSIA)										
MAINTE- NANCE		Numbe	er of months or drivi	ng dis	tance	, whic	hever	come	s first		
INTERVALS	Months			12	24	36	48	60	72	84	96
/ MAINTE- NANCE ITEM	Milesx1,000			10	20	30	40	50	60	70	80
NAINCETTEIVI		Kmx	1,000	15	30	45	60	75	90	105	120
Engine oil and engine oil filter *1	Except Middle East, India, Libia, Algeria, Morocco, 1.6L MPI Egypt, Iran, Brazil, Central & South America, China								0 miles) or		
	Gasoline	Gamma 1.6L T-GDI ALL, Gamma 1.6L MPI	For Middle East, India, Libia, Algeria, Morocco, Tunisia, Sudan, Egypt, Iran, Brazil, Central & South America	Algeria, inisia, Replace every 10,000 km (6,5 ot, Iran, months ral &						500 miles) or 12	
			For China	Replace every 5,000 km (3,000 miles) or 6 months							
	Diesel	Smart Stream	For Russia, Australia, New Zealand	Replace every 15,000 km (10,000 miles) or 12months						s) or	
_		Diesei Stream D 1.6	Except Russia, Australia, New Zealand	Replace every 10,000 km (6,500 miles) or 1. months						or 12	
Coolant (Engine) *3	Gasoline,	Diesel		At first, Replace 210,000 km (140,000 miles) or 120 months after that, Replace every 30,000 km (20,000 miles) or 24 months							
	Gasoline			-	Ι	-		-	Ι	-	I
Drive belts (Engine) *4	Diesel		For Russia, Australia and New Zealand	At first, Replace 90,000 km (60,000 miles) c 48months After that, Inspect every 30,000 km (20,000 miles) or 24months							
			Except Russia, Australia and New Zealand	At first, Replace 80,000 km (50,000 miles) o 48months After that, Inspect every 20,000 km (12,500 miles) or 12months							
Timing belt	Diesel	SmartSt	ream D 1.6	Inspect every 120,000 km (80,000 miles)							

	NORMAL MAINTENANCE SCHEDULE - EXCEPT EUROPE (INCLUDING RUSSIA))				
MAINTE- NANCE		Numbe	r of months or drivi	ving distance, whichever comes first									
INTERVALS	Months			12	24	36	48	60	72	84	96		
/ MAINTE- NANCE ITEM		Milesx1,000			20	30	40	50	60	70	80		
		Kmx	1,000	15	30	45	60	75	90	105	120		
Timing belt system (Timing belt, Oil belt, Tensioner, Idler)	Diesel SmartStream D 1.6			Replace every 240,000 km (160,000 miles)									
Valve	Gasoline	Kappa 1.	OL T-GDI	-	-	-	-	-	I	-	-		
clearance *5	Gasoline	Gamma	1.6L ALL	-	-	-	-	-	1	-	-		
Vacuum hoses and crankcase ventilation hoses	Gasoline	Gasoline			I	-	I	-	I	-	1		
	Gasoline	Kappa 1.0L T-GDI	Unleaded	Replace every 75,000 km (50,000 miles)							es)		
	Gasoline	Kappa 1.4L MPI	Unleaded	Replace every 150,000 km (100,000 miles)									
Spark plugs	Gasoline	Gamma 1.6L T-GDI	Unleaded	Replace every 75,000 km (50,000 miles)						es)			
*6	Gasoline	Kappa 1.4L T-GDI	Unleaded	Replace every 75,000 km (50,000 miles)							es)		
	Gasoline	Gamma 1.6L MPI	Unleaded	Replace every 60,000 km (40,000 miles)						es)			
	Gamma Gasoline 1.6L Leaded MPI			Replace every 30,000 km (20,000 miles)									
Automatic transmission fluid	Gasoline, Diesel				No check, No service required								
Manual transmission fluid *7	Gasoline, Diesel				_	_	I	_	_	-	I		

	NOR	MAL MAINTENANCE SCHEDUL	.E - E>	KCEPT	EUR) DPE (II	NCLUE	DING F	RUSSIA	\)
MAINTE- NANCE		Number of months or drivi	iving distance, whichever comes first							
INTERVALS	Months			24	36	48	60	72	84	96
/ MAINTE- NANCE ITEM		Milesx1,000	10	20	30	40	50	60	70	80
TU AVEL TI LIVI		Kmx1,000	15	30	45	60	75	90	105	120
Dual clutch transmission (DCT) fluid (if equipped) *8	Gasoline,	Diesel	-	-	-	I	-	-	-	1
Drive shaft and boots	Gasoline,	Diesel	-	I	-	I	-	I	-	I
		For Australia and New Zealand	Adc	lever	J 15,0	00 km mor)00 m	iles) o	r 12
Fuel additives (Gasoline) *9	Gasoline	Except Australia and New Zealand, China, Brazil	Add every 10,000 km (6,500 miles months				iles) o	es) or 6		
(dasonne) 5		For China, Brazil	Add every 5,000 km (3,000 miles) or 6 months					6		
Fuel filter (Gasoline)	Gasoline	For China, Brazil	-	I	-	R	-	I	-	R
Fuel lines,	Gasoline		-	-	-	I	-	-	-	Ι
hoses and connections	Diesel		-	1	-	I	-	1	-	1
Fuel tank		Except China	-	1	-	R	-	1	-	R
air filter (Gasoline)	Gasoline	For China	I		R	I	I	R	1	1
Vapor hose and fuel filler cap (Gasoline)	Gasoline		-	_	_	Ι	_	_	-	I
Fuel filler cap (Diesel)	Diesel		-	-	-	I	-	-	-	I
Urea solution line & connections (if equipped)	Diesel		-	I	-	I	-	I	-	I
Urea solution filler cap (if equipped)	Diesel			-	-	I	-	-	-	I
Fuel filter cartridge (Diesel) *10	Diesel	Diesel			-	R	-	I	-	R

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	NORMAL MAINTENANCE SCHEDULE - EXCEPT EUROPE (INCLUDING RUSSIA)							\)		
MAINTE- NANCE		Number of months or drivi	tance,	whicl	never	come	s first			
INTERVALS	Months			24	36	48	60	72	84	96
/ MAINTE- NANCE ITEM		Milesx1,000	10	20	30	40	50	60	70	80
10		Kmx1,000	15	30	45	60	75	90	105	120
Air cleaner filter	Gasoline, Diesel	Except China, India, Middle East	I	1	R	1	1	R	I	
	Diesei	For China, India, Middle East	R	R	R	R	R	R	R	R
Intercooler, in/out hose, air intake hose	Gasoline	T-GDI ALL	Inspect every 10,000 km (6,500 miles) o months					or 12		
Exhaust system	Gasoline,	Diesel	-	I	-	I	-	I	-	I
Cooling system	Gasoline,	Diesel	-	-	-	I	-	I	-	
Air conditioner compressor/ refrigerant	Gasoline, Diesel		ļ	I	I	I	I	I	I	I
Climate control air	Gasoline,	Except Australia and New Zealand	R	R	R	R	R	R	R	R
filter	Diesel	iesel For Australia and New Zealand		R		R	1	R		R
Brake discs and pads	Gasoline,	Diesel	-	I	-	I	-	I	-	
Brake lines, hoses and connections	Gasoline, Diesel		-	I	-	I	-	I	-	
Brake fluid	Gasoline,	Diesel	Ι	R	I	R	I	R	I	R
Parking brake (Hand type)	Gasoline, Diesel		-	I	-	I	-	I	-	
Steering gear rack, linkage and boots	Gasoline, Diesel		Ι	I	I	I	I	I	I	1
Suspension ball joints	Gasoline, Diesel		Ι	I	1	I	1	I	1	
Tire (pressure & tread wear)	Gasoline,	Diesel	Ι	I	I	I		I	I	

	NOR	MAL MAINTENANCE SCHEDUL	.E – E)	XCEP1	EUR	OPE (II	NCLUE)ING F	RUSSIA)
MAINTE- NANCE	Number of months or driving distance, whichever comes first									
INTERVALS		Months	12	24	36	48	60	72	84	96
/ MAINTE- NANCE ITEM	Milesx1,000		10	20	30	40	50	60	70	80
NAINCE ITEIVI	Kmx1,000			30	45	60	75	90	105	120
Battery	Caralian	Except Middle East	-	- - -					I	
(12V) condition	Gasoline, Diesel	For Middle East	Inspect every 10,000 km (6,500 miles) or months					or 6		
ERA-GLONASS system battery (if equipped)			Replace every 3 years.							

Maintenance under severe usage conditions – except Europe (Including Russia)

Maintenance operation

- I: Inspect and if necessary, adjust, correct, clean or replace.
- R: Replace or change.

MAINTENANCE ITEM			MAINTE- NANCE OPERATION	MAINTENANCE INTERVALS	Driving Condi- Tion	
	Ga-	Kappa 1.4L	Except Middle East, India, Libia, Algeria, Morocco, Tunisia, Sudan, Egypt, Iran, Brazil, Central & South America, China	R	Every 7,500 km (5,000 miles) or 6 months	A, B, C, D, E, F, G, H,
soline Engine oil and engine oil filter	MPI	For Middle East, India, Libia, Algeria, Morocco, Tunisia, Sudan, Egypt, Iran, Brazil, Central & South America	R	Every 5,000 km (3,000 miles) or 6 months	I, J, K	
Ga-	Ga- T-GDI	Except China	R	Every 5,000 km (3,000 miles) or 6 months	A, B, C, D,	
	soline		For China	R	Every 5,000 km (3,000 miles) or 3 months	E, F, G, H, I, J, K

	MAI	NTENANC	EITEM	MAINTE- NANCE OPERATION	MAINTENANCE INTERVALS	DRIVING CONDI- TION	
			Except Middle East, India, Libia, Algeria, Morocco, Tunisia, Sudan, Egypt, Iran, R Brazil, Central & South America, China		Every 7,500 km (5,000 miles) or 6 months		
Engine oil and engine oil filter	Ga- soline	Gamma 1.6L MPI	For Middle East, India, Libia, Algeria, Morocco, Tunisia, Sudan, Egypt, Iran, Brazil, Central & South America	R	Every 5,000 km (3,000 miles) or 6 months	A, B, C, D, E, F, G, H, I, J, K	
			For China	R	Every 5,000 km (3,000 miles) or 3 months		
	Diesel	Smart Diesel Stream D 1.6	For Russia, Australia, New Zealand	R	Every 7,500 km (5,000 miles) or 6 months		
			Except Russia, Australia, New Zealand	R	Every 5,000 km (3,000 miles) or 6 months		
Spark plugs	Gasolir	ie		R	Replace more frequently depending on the condition	B, H, I, K	
Automatic trans- mission fluid	Gasolir	ne, Diesel		R	Every 90,000 km (60,000 miles)	A, C, D, E, F, G, H, I, J	
Manual trans- mission fluid	Gasolir	ne, Diesel		R	Every 120,000 km (80,000 miles)	C, D, E, F, G, H, I, J	
Dual clutch trans- mission (DCT) fluid	Gasolir	ne, Diesel		R	Every 120,000 km (80,000 miles)	C, D, E, F, G, H, I, J	
Drive shaft and boots	Gasoline, Diesel		I	Inspect more frequently depending on the condition	C, D, E, F, G, H, I, J		

	MAINTENANCE ITEM	MAINTE- NANCE OPERATION	MAINTENANCE INTERVALS	DRIVING CONDI- TION
Air cleaner filter	Gasoline, Diesel	R	Replace more frequently depending on the condition	С, Е
Climate control air filter	Gasoline, Diesel	R	Replace more frequently depending on the condition	C, E, G
Brake discs and pads, calipers and rotors	Gasoline, Diesel	I	Inspect more frequently depending on the condition	C, D, E, G, H
Parking brake (Hand type)	Gasoline, Diesel	I	Inspect more frequently depending on the condition	C, D, G, H
Steering gear rack, linkage and boots	Gasoline, Diesel	I	Inspect more frequently depending on the condition	C, D, E, F, G
Suspension ball joints	Gasoline, Diesel	I	Inspect more frequently depending on the condition	C, D, E, F, G

Severe driving conditions

A: Repeatedly driving short distance of less than 8 km (5miles) in normal temperature or less than 16 km (10 miles) in freezing temperature.

B: Extensive engine idling or low speed driving for long distances.

C: Driving on rough, dusty, muddy, unpaved, graveled or saltspread roads.

D: Driving in areas using salt or other corrosive materials or in very cold weather

E: Driving in heavy dust condition.

F: Driving in heavy traffic area.

G: Driving on uphill, downhill, or mountain roads repeatedly.

H: Towing a trailer or using a camper on roof rack.

I: Driving for patrol car, taxi, other commercial use of vehicle towing.

J: Driving over 170 km/h (106 mile/h).

K: Frequently driving in stop-and-go conditions.

Explanation of scheduled maintenance items

Engine oil and filter

The engine oil and filter should be changed at the intervals specified in the maintenance schedule. If the vehicle is being driven in severe conditions, more frequent oil and filter changes are required.

Drive belts

Inspect all drive belts for evidence of cuts, cracks, excessive wear or oil saturation and replace if necessary. Drive belts should be checked periodically for proper tension and adjusted as necessary.

A CAUTION

When you are inspecting the belt, place the ignition switch in the LOCK/ OFF or ACC position.

Fuel filter cartridge (for diesel)

A clogged filter can limit the speed at which the vehicle may be driven, damage the emission system and cause multiple issues such as hard starting. If an excessive amount of foreign matter accumulates in the fuel tank, the filter may require replacement more frequently. After installing a new filter, run the engine for several minutes, and check for leaks at the connections. Have the fuel filter replaced by a professional workshop. Kia recommends to visit an authorized Kia dealer/service partner.

Fuel filter (for gasoline)

Kia gasoline vehicle is equipped a lifetime fuel filter that integrated with the fuel tank. Regular maintenance or replacement is not needed but depends on fuel quality. If there are some important safety matters like fuel flow restriction, surging, loss of power, hard starting problem etc, fuel filter inspection or replace is needed.

Have the fuel filter inspected or replaced by a professional workshop. Kia recommends to visit an authorized Kia dealer/service partner.

Fuel lines, fuel hoses and connections

WARNING

Check the fuel lines, fuel hoses and connections for leakage and damage. Have the fuel lines, fuel hoses and connections replaced by a professional workshop. Kia recommends to visit an authorized Kia dealer/service partner.

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Diesel only

Never work on the injection system with the engine running or within 30 seconds after shutting off the engine. High pressure pump, rail, injectors and high pressure pipes are subject to high pressure even after the engine stops. The fuel jet produced by fuel leaks may cause serious injury, if it touches the body. People wearing a cardiac pacemaker should maintain a distance of at least 30cm from the ECU or wiring harness within the engine room while the engine is running, since the high currents in the Common Rail system produce considerable magnetic fields.

Vapor hose (for gasoline engine) and fuel filler cap

The vapor hose and fuel filler cap should be inspected at those intervals specified in the maintenance schedule. Make sure that a new vapor hose or fuel filler cap is correctly replaced.

Vacuum crankcase ventilation hoses (if equipped)

Inspect the surface of hoses for evidence of heat and/or mechanical damage. Hard and brittle rubber, cracking, tears, cuts, abrasions, and excessive swelling indicate deterioration. Particular attention should be paid to examine those hose surfaces nearest to high heat sources, such as the exhaust manifold.

Inspect the hose routing to assure that the hoses do not come in contact with any heat source, sharp edges or moving component which might cause heat damage or mechanical wear. Inspect all hose connections, such as clamps and couplings, to make sure they are secure, and that no leaks are present. Hoses should be replaced immediately if there is any evidence of deterioration or damage.

Air cleaner filter

Have the air cleaner filter replaced by a professional workshop. Kia recommends to visit an authorized Kia dealer/service partner.

Spark plugs (for gasoline engine)

Make sure to install new spark plugs of the correct heat range.

A WARNING



Do not disconnect and inspect spark plugs when the engine is hot. You may burn yourself.

Valve clearance

Inspect for excessive valve noise and/or engine vibration and adjust if necessary. In this case, have the system serviced by a professional workshop. Kia recommends to visit an authorized Kia dealer/service partner.

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

The coolant should be changed at the intervals specified in the maintenance schedule.

Manual transmission fluid (if equipped)

Inspect the manual transmission fluid according to the maintenance schedule.

Dual clutch transmission fluid (if equipped)

Inspect the dual clutch transmission fluid according to the maintenance schedule.

Automatic transmission fluid (if equipped)

Automatic transmission fluid should not be checked under normal usage conditions. Have the automatic transmission fluid changed by a professional workshop according to the maintenance schedule. Kia recommends to visit an authorized Kia dealer/service partner.

* NOTICE

Automatic transmission fluid color is basically red.

As the vehicle is driven, the automatic transmission fluid will begin to look darker. It is normal condition and you should not judge the need to replace the fluid based upon the changed color.

A CAUTION

The use of a non-specified fluid could result in transmission malfunction and failure. Use only specified automatic transmission fluid. (Refer to "Recommended lubricants and capacities" on page 9–11.)

Brake hoses and lines

Visually check for proper installation, chafing, cracks, deterioration and any leakage. Replace any deteriorated or damaged parts immediately.

Brake/Clutch fluid (if equipped)

Check the brake/clutch fluid level in the brake/clutch fluid reservoir. The level should be between "MIN" and "MAX" marks on the side of the reservoir. Use only hydraulic brake/ clutch fluid conforming to DOT 3 or DOT 4 specification.

Parking brake

Inspect the parking brake system including the parking brake lever (or pedal) and cables.

Brake discs, pads, calipers and rotors.

Check the pads for excessive wear, discs for run out and wear, and calipers for fluid leakage.

For more information on checking the pads or lining wear limit, we recommend to refer to the Kia web site.

(www.kia-hotline.com)

Suspension mounting bolts

Check the suspension connections for looseness or damage. Retighten to the specified torque.

Steering gear box, linkage & boots/ lower arm ball joint

With the vehicle stopped and engine off, check for excessive free-play in the steering wheel.

Check the linkage for bends or damage. Check the dust boots and ball joints for deterioration, cracks, or damage. Replace any damaged parts.

Drive shafts and boots

Check the drive shafts, boots and clamps for cracks, deterioration, or damage. Replace any damaged parts and, if necessary, repack the grease.

Air conditioning refrigerant (if equipped)

Check the air conditioning lines and connections for leakage and damage.

Engine oil (gasoline)

Checking the engine oil level

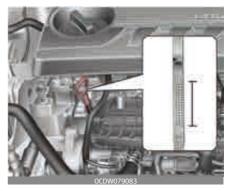
Kappa 1.0L T-GDI Engine (Gasoline)



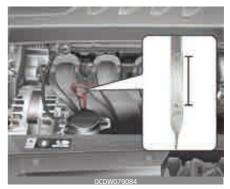
Kappa 1.4L MPI Engine (Gasoline)



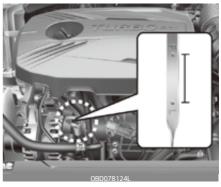
Kappa 1.4L T-GDI Engine (Gasoline)



Gamma 1.6L MPI Engine (Gasoline)



Gamma 1.6L T-GDI Engine (Gasoline)



1. Be sure the vehicle is on level ground.

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- 2. Start the engine and allow it to reach normal operating temperature.
- 3. Turn the engine off and wait for a few minutes (about 5 minutes) for the oil to return to the oil pan.
- 4. Pull the dipstick out, wipe it clean, and re-insert it fully.

WARNING



Be very careful not to touch the radiator hose when checking or adding the engine oil as it may be hot enough to burn you.

5. Pull the dipstick out again and check the level. The level should be between F (Full) and L (Low).

A CAUTION

- Do not overfill the engine oil. It may damage the engine.
- Do not spill engine oil, when adding or changing engine oil. If you drop the engine oil on the engine room, wipe it off immediately.
- When you wipe the oil level gauge, you should wipe it with a clean cloth. When mixed with debris, it can cause engine damage.

Kappa 1.0L T-GDI Engine (Gasoline)



Kappa 1.4L MPI Engine (Gasoline)

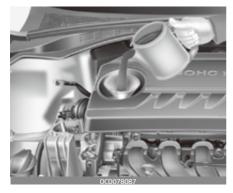


If it is near or at L (Low), add enough oil to bring the level to F (Full). **Do** not overfill.

Kappa 1.4L T-GDI Engine (Gasoline)



Gamma 1.6L MPI Engine (Gasoline)



Gamma 1.6L T-GDI Engine (Gasoline)



Use a funnel to help prevent oil from being spilled on engine components.

Use only the specified engine oil. (Refer to "Recommended lubricants and capacities" on page 9-11.)

Changing the engine oil and filter

Have the engine oil and filter replaced by a professional workshop. Kia recommends to visit an authorized Kia dealer/service partner.

A WARNING

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 oil.

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Engine oil (diesel)

Checking the engine oil level

SmartStream D 1.6 Engine (Diesel)



- 1. Be sure the vehicle is on level ground.
- 2. Start the engine and allow it to reach normal operating temperature.
- 3. Turn the engine off and wait for a few minutes (about 5 minutes) for the oil to return to the oil pan.
- 4. Pull the dipstick out, wipe it clean, and re-insert it fully.

A WARNING

Radiator hose

Be very careful not to touch the radiator hose when checking or adding the engine oil as it may be hot enough to burn you.

- 5. Pull the dipstick out again and check the level.
- 6. The level should be in the C range. If the level is in the D range, add

enough engine oil to bring the level up to the C range.

Figure	Required action according to the respective engine oil level
Range (A)	Contact an authorized Kia dealer/service partner.
Range (B)	Do not refill oil.
Range (C)	Normal. You may add oil as long as the oil level does not go above C-range.
Range (D)	You must add oil and make sure that the oil level is in the C-Range.

A CAUTION

- Do not spill engine oil, when adding or changing engine oil. If you drop the engine oil on the engine room, wipe it off immediately.
- When you wipe the oil level gauge, you should wipe it with a clean cloth. When mixed with debris, it can cause engine damage.

SmartStream D 1.6 Engine (Diesel)



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If it is near or at L (Low), add enough oil to bring the level to F (Full). **Do not overfill.**

Use only the specified engine oil. (Refer to "Recommended lubricants and capacities" on page 9-11.)

Changing the engine oil and filter

Have the engine oil and filter replaced by a professional workshop. Kia recommends to visit an authorized Kia dealer/service partner.

A WARNING

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 oil.

Engine coolant

The high-pressure cooling system has a reservoir filled with year round antifreeze coolant. The reservoir is filled at the factory.

Check the antifreeze protection and coolant level at least once a year, at the beginning of the winter season, and before traveling to a colder climate.

A CAUTION

- When the engine overheats from low engine coolant, suddenly adding engine coolant may cause cracks in the engine. To prevent damage, add engine coolant slowly in small quantities.
- Do not drive with no engine coolant. It may cause water pump failure and engine seizure, etc.

Checking the coolant level



Removing radiator cap

Never attempt to remove the radiator

cap while the engine is operating or hot. Doing so might lead to cooling system and engine damage. Also, hot coolant or steam could cause serious personal injury.

Turn the engine off and wait until it cools down. Use extreme care when removing the radiator cap. Wrap a thick towel around it, and turn it counterclockwise slowly to the first stop. Step back while the pressure is released from the cooling system.

When you are sure all the pressure has been released, press down on the cap, using a thick towel, and continue turning counterclockwise to remove it.

Even if the engine is not operating, do not remove the radiator 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.

A WARNING



The electric motor (cooling fan) is controlled by engine coolant temperature, refrigerant pressure

and vehicle speed. It may sometimes operate even when the engine is not running. Use extreme caution when working near the blades of the cooling fan so that you are not injured by a rotating fan blades. As the engine coolant temperature decreases, the electric motor will automatically shut off. This is a normal condition. The electric motor (cooling fan) may operate until you

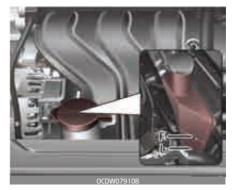
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disconnect the negative battery cable.

Kappa 1.0L T-GDI Engine (Gasoline) / Kappa 1.4L T-GDI Engine (Gasoline)



Kappa 1.4L MPI Engine (Gasoline) / Gamma 1.6L MPI Engine (Gasoline)



SmartStream D1.6 Engine (Diesel) / Gamma 1.6L T-GDI Engine (Gasoline)



Check the condition and connections of all cooling system hoses and heater hoses. Replace any swollen or deteriorated hoses.

The coolant level should be filled between MAX and MIN (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. Bring the level to MAX (F), but do not overfill.

If frequent additions are required, have the system inspected by a professional workshop. Kia recommends to visit an authorized Kia dealer/service partner.

* NOTICE

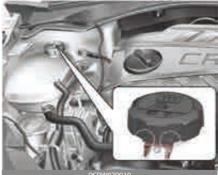
Make sure the coolant cap is properly closed after refill of coolant. Otherwise the engine could be overheated while driving. 1. Check if the radiator cap label is straight In front.

Engine room front view - SmartStream D 1.6 Engine (Diesel)



2. Make sure that the tiny protrusions inside the coolant cap are securely interlocked.

Engine room rear view – SmartStream D1.6 Engine (Diesel) / Gamma 1.6L T-GDI Engine (Gasoline)



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Recommended engine coolant

• When adding coolant, use only deionized water or soft water for your vehicle and never mix hard water in the coolant filled at

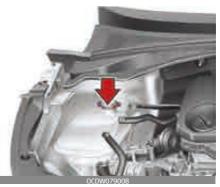
the factory. An improper coolant mix-ture can result in serious malfunction or engine damage.

- The engine in your vehicle has aluminum engine parts and must be protected by an ethyleneglycol 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	Mixture Percentage (volume)				
Temperature	Antifreeze	Water			
-15°C (5°F)	35	65			
-25°C (-13°F)	40	60			
-35°C (-31°F)	50	50			
-45°C (-49°F)	60	40			

Kappa 1.0L T-GDI Engine (Gasoline) / Kappa 1.4L T-GDI Engine (Gasoline)



Kappa 1.4L MPI Engine (Gasoline) / Gamma 1.6L MPI Engine (Gasoline)



SmartStream D1.6 Engine (Diesel) / Gamma 1.6L T-GDI Engine (Gasoline)



A WARNING



Do not remove the radiator cap when the engine and radiator are hot.

Radiator cap

Scalding hot coolant and steam may blow out under pressure causing serious injury.

Changing the coolant

Have the coolant replaced by a professional workshop. Kia recommends to visit an authorized Kia dealer/service partner.

A CAUTION

Put a thick cloth around the radiator cap before refilling the coolant in order to prevent the coolant from overflowing into engine parts such as the alternator.

WARNING

Coolant

- Do not use radiator coolant or antifreeze in the washer fluid reservoir.
- Radiator coolant can severely obscure visibility when sprayed on the windshield and may cause loss of vehicle control or damage the paint and body trim.

Brake/clutch fluid (if equipped)

Checking the brake/clutch fluid level

Check the fluid level in the reservoir periodicallu. The fluid level should be between MAX and MIN marks on the side of the reservoir



- 1. Before removing the reservoir cap and adding brake/clutch fluid, clean the area around the reservoir cap thoroughly to prevent brake/clutch fluid contamination
- 2. If the level is low, add fluid to the MAX level. The level will fall with accumulated mileage. This is a normal condition associated with the wear of the brake linings. If the fluid level is excessively low, have the system checked by a professional workshop. Kia recommends to visit an authorized Kia dealer/service partner.

Use only the specified brake fluid. (Refer to "Recommended lubricants and capacities" on page 9-11.)

Never mix different types of fluid.

A WARNING

Loss of brake/clutch fluid

In the event the brake/clutch system requires frequent additions of fluid, have the system inspected by a professional workshop. Kia recommends to visit an authorized Kia dealer/service partner.

A WARNING

Brake/clutch fluid

When changing and adding brake/ clutch fluid, handle it carefully. Do not let it come in contact with your eyes. If brake/clutch fluid should come in contact with your eyes, immediately flush them with a large quantity of fresh tap water. Have your eyes examined by a doctor as soon as possible.

A CAUTION

Do not allow brake/clutch fluid to contact the vehicle's body paint, as paint damage will result. Brake/ clutch fluid, which has been exposed to open air for an extended time should never be used as its qualitu cannot be guaranteed. It should be properly disposed. Don't put in the

wrong kind of fluid. A few drops of mineral-based oil, such as engine oil, in your brake/clutch system can damage brake/clutch 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.



 Check the fluid level in the washer fluid reservoir and add fluid if necessary. Plain water may be used if washer fluid is not available.

However, use washer solvent with antifreeze characteristics in cold climates to prevent freezing.

A WARNING

Coolant

- Do not use radiator coolant or antifreeze in the washer fluid reservoir.
- Radiator coolant can severely obscure visibility when sprayed on the windshield and may cause loss of vehicle control or damage to paint and body trim.

8

----- 47

- Windshield Washer fluid agents contain some amounts of alcohol and can be flammable under certain circumstances. Do not allow sparks or flame to contact the washer fluid or the washer fluid reservoir. Damage to the vehicle or occupants could occur.
- Windshield washer fluid is poisonous to humans and animals.
 Do not drink and avoid contacting windshield washer fluid. Serious injury or death could occur.

Parking brake

Checking the parking brake



 Check the stroke of the parking brake by counting the number of "clicks" heard while fully applying it from the released position. Also, the parking brake alone should securely hold the vehicle on a fairly steep grade. If the stroke is more or less than specified, have the system serviced by a professional workshop. Kia recommends to visit an authorized Kia dealer/service partner.

Stroke : 5~7 "clicks" at a force of 20 kg (44 lbs, 196 N).

Fuel Filter (for diesel)

Draining water from the fuel filter

The fuel filter for diesel engine plays an important role of separating water from fuel and accumulating the water in its bottom.

If water accumulates in the fuel filter, the warning light comes on when the ignition switch is in the ON position.



If this warning light illuminates, take your car to a professional workshop and have drain the water and

check the system. Kia recommends to visit an authorized Kia dealer/ service partner.

A CAUTION

If the water accumulated in the fuel filter is not drained at proper times, damages to the major parts such as the fuel system can be caused by water permeation in the fuel filter. Fuel filter cartridge replacement



* NOTICE

When replacing the fuel filter cartridge, use parts for replacement from a professional workshop. Kia recommends to visit an authorized Kia dealer/service partner.

Air cleaner

Filter replacement

It must be replaced when necessary, and should not be washed.



You can clean the filter when inspecting the air cleaner element.

Inspecting the air cleaner element.

Clean the filter by using compressed air.



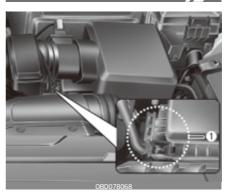
OCDW079015

1. Loosen the air cleaner cover attaching clips and open the cover.



- 2. Wipe the inside of the air cleaner.
- 3. Replace the air cleaner filter.
- 4. Lock the cover with the cover attaching clips.

* NOTICE



Insert the hinge (1) and engage the clips when mounting the air cleaner cover.

Replace the filter according to the Maintenance Schedule.

If the vehicle is operated in extremely dusty or sandy areas, replace the element more often than the usual recommended intervals. (Refer to "Maintenance under severe usage conditions - for Europe (Except Russia)" on page 8-20, "Maintenance under severe usage conditions - except Europe (Including Russia)" on page 8-30.)

A CAUTION

- Do not drive with the air cleaner removed; this will result in excessive engine wear.
- When removing the air cleaner filter, be careful that dust or dirt does not enter the air intake, or damage may result.
- Use parts for replacement from a professional workshop. Kia recommends to visit an authorized Kia dealer/service partner.

Climate control air filter

Filter inspection

The climate control air filter should be replaced according to the maintenance schedule. If the vehicle is operated in severely air-polluted cities or on dusty rough roads for a long period, it should be inspected more frequently and replaced earlier. When you replace the climate control air filter, replace it performing the following procedure, and be careful to avoid damaging other components.

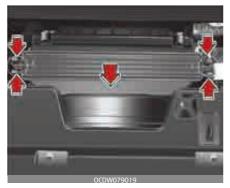
1. Open the glove box and remove the stoppers on both sides.



2. With the glove box open, pull the support strap (1).



3. Remove the climate control air filter cover by pulling out both sides of the cover.



4. Replace the climate control air filter.



5. Reassemble in the reverse order of disassembly.

* NOTICE

When replacing the climate control air filter install it properly. Otherwise, the system may produce noise and the effectiveness of the filter may be reduced.

Wiper blades

Blade inspection



* NOTICE

Commercial hot waxes applied by automatic car washes have been known to make the windshield difficult to clean.

Contamination of either the windshield or the wiper blades with foreign matter can reduce the effectiveness of the windshield wipers. Common sources of contamination are insects, tree sap, and hot wax treatments used by some commercial car washes. If the blades are not wiping properly, clean both the window and the blades with a good cleaner or mild detergent, and rinse thoroughly with clean water.

A CAUTION

To prevent damage to the wiper blades, do not use gasoline, kerosene, paint thinner, or other solvents on or near them.

Blade replacement

When the wipers no longer clean adequately, the blades may be worn or cracked, and require replacement.

A CAUTION

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 windshield wiper blade



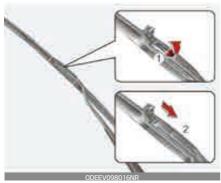
For your convenience, move the windshield wiper blades to the service position as follows;

After turning off the engine, move the wiper switch to the single wiping (MIST) position within 20 seconds and hold the switch more than 2 seconds until the wiper blade is in the fully up position.

A CAUTION

Do not allow the wiper arm to fall against the windshield, since it may chip or crack the windshield.

1. Raise the wiper arm.



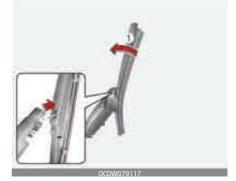
2. Lift up the wiper blade clip. Then pull down the blade assembly and remove it.



- 3. Install the new blade assembly.
- 4. Return the wiper arm on the windshield.
- 5. Turn ignition to the ON position and wiper arms will return to the normal operating position.

Rear window wiper blade

1. Raise the wiper arm and pull out the wiper blade assembly.



2. Install the new blade assembly by inserting the center part into the slot in the wiper arm until it clicks into place.



3. Make sure the blade assembly is installed firmly by trying to pull it slightly.

To prevent damage to the wiper arms or other components, have the wiper blade replaced by a professional workshop. Kia recommends to visit an authorized Kia dealer/service partner.

Battery

For best battery service



- Keep the battery securely mounted.
- Keep the battery top clean and dry.
- Keep the terminals and connections clean, tight, and coated with petroleum jelly or terminal grease.
- Rinse any spilled electrolyte from the battery immediately with a solution of water and baking soda.
- If the vehicle is not going to be used for an extended time, disconnect the battery cables.

* NOTICE

Basically equipped battery is maintenance free type. If your vehicle is equipped with the battery marked with LOWER and UPPER on the side, you can check the electrolyte level. The electrolyte level should be between LOWER and UPPER. If the electrolyte level is low, it needs to add distilled (demineralized) water (Never add sulfuric acid or other electrolyte). When refill, be careful not to splash the battery and adjacent components. And do not overfill the battery cells. It can cause corrosion on other parts. Make sure that the cell caps are tightened. Contact a professional workshop. Kia recommends to visit an authorized Kia dealer/service partner.

A WARNING

Battery dangers



Always read the following instructions carefully when handling a battery.

Keep lighted cigarettes and all other flames or sparks away from the battery.



Hydrogen, a highly combustible gas, is always present in battery cells and may explode if ignited.



Keep batteries out of the reach of children because batteries contain highly corrosive SULFURIC ACID.

Do not allow battery acid to contact your skin, eyes, clothing or paint finish.



If any electrolyte gets into your eyes, flush your eyes

with clean water for at least 15 minutes and get immediate medical attention.

If electrolyte gets on your skin, thoroughly wash the contacted area. If you feel pain or burning sensation, get medical attention immediately.



Wear eye protection when charging or working near a battery. Always provide ventilation when working

in an enclosed space.



 An inappropriately disposed battery can be harmful to the

environment and human

health. Dispose the battery according to your local law(s) or regulation.



The battery contains lead. Do not dispose of it after use. Contact a professional workshop. Kia

recommends to visit an authorized Kia dealer/service partner.

- When lifting a plastic-cased battery, excessive pressure on the case may cause battery acid to leak, resulting in personal injury. Lift with a battery carrier or with your hands on opposite corners.
- Never attempt to recharge the battery when the battery cables are connected.
- The electrical ignition system works with high voltage. Never touch these components with

the engine running or the ignition switched on.

Failure to follow the above warnings can result in serious bodily injury or death.

A CAUTION

- When you don't use the vehicle for a long time in the low temperature area, separate the battery and keep it indoors.
- Always charge the battery fully to prevent battery case damage in low temperature area.
- If you connect unauthorized electronic devices to the battery, the battery may be discharged. Never use unauthorized devices.

Battery capacity label

Example



- * The actual battery label in the vehicle may differ from the illustration.
- 1. AGM90L-DIN: The Kia model name of battery
- 2.90Ah(20HR): The nominal capacity (in Ampere hours)
- 3. 170RC: The nominal reserve capacity (in min.)

- 4. 12V: The nominal voltage
- 5.850CCA (SAE): The cold-test current in amperes by SAE
- 6. 680A: The cold-test current in amperes by EN

Battery recharging

Your vehicle has a maintenancefree, calcium-based battery.

- If the battery becomes discharged in a short time (because, for example, the headlights or interior lights were left on while the vehicle was not in use), recharge it by slow charging (trickle) for 10 hours.
- If the battery gradually discharges because of high electric load while the vehicle is being used, recharge it at 20-30A for two hours.

WARNING

Recharging battery

When recharging the battery, observe the following precautions:

- The battery must be removed from the vehicle and placed in an area with good ventilation.
- Do not allow cigarettes, sparks, or flame near the battery.
- Watch the battery during charging, and stop or reduce the charging rate if the battery cells begin gassing (boiling) violently or if the temperature of the

electrolyte of any cell exceeds 49°C (120°F).

- Wear eye protection when checking the battery during charging.
- Disconnect the battery charger in the following order.
 - 1. Turn off the battery charger main switch.
 - 2. Unhook the negative clamp from the negative battery terminal.
 - 3. Unhook the positive clamp from the positive battery terminal.

A WARNING

- Before performing maintenance or recharging the battery, turn off all accessories and stop the engine.
- The negative battery cable must be removed first and installed last when the battery is disconnected.
- Operation related to the battery is recommended to be done by a professional workshop. Kia recommends to visit an authorized Kia dealer/service partner.

A CAUTION

- Keep the battery away from water or any liquid.
- For your safety, use parts for replacement from a professional workshop. Kia recommends to

visit an authorized Kia dealer/ service partner.

A CAUTION

AGM battery (if equipped)

- Absorbent Glass Matt (AGM) batteries are maintenance free and have the AGM battery serviced by a professional workshop. Kia recommends to visit an authorized Kia dealer/ service partner. For charging your AGM battery, use only fully automatic battery chargers that are specially developed for AGM batteries.
- When replacing the AGM battery, use parts for replacement from a professional workshop. Kia recommends to visit an authorized Kia dealer/service partner.
- Do not open or remove the cap on top of the battery. This may cause leaks of internal electrolyte that could result in severe injury.

Reset items

Items should be reset after the battery has been discharged or the battery has been disconnected.

- Auto up/down window
- Sunroof
- Trip computer
- Climate control system
- Integrated Memory System

• Audio

Tires and wheels

Tire care

For proper maintenance, safety, and maximum fuel economy, you must always maintain recommended tire inflation pressures and stay within the load limits and weight distribution recommended for your vehicle.

Recommended cold tire inflation pressures

All tire pressures (including the spare) should be checked when the tires are cold. "Cold Tires" means the vehicle has not been driven for at least three hours or driven less than 1.6 km (one mile).

Recommended pressures must be maintained for the best ride, top vehicle handling, and minimum tire wear.

For recommended inflation pressure, refer to "Tires and wheels (5 Door, Wagon, Shooting brake)" on page 9-6, "Tires and wheels (CUV)" on page 9-7.



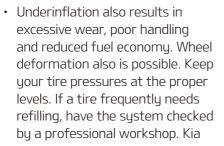
All specifications (sizes and pressures) can be found on a label attached to the vehicle.

WARNING

Tire underinflation

Severe underinflation (70 kPa (10 psi) or more) can lead to severe heat build-up, causing blowouts, tread separation and other tire failures that can result in the loss of vehicle control leading to severe injury or death. This risk is much higher on hot days and when driving for long periods at high speeds.

A CAUTION



recommends to visit an authorized Kia dealer/service partner.

 Overinflation produces a harsh ride, excessive wear at the center of the tire tread, and a greater possibility of damage from road hazards.

CAUTION

- Warm tires normally exceed recommended cold tire pressures by 28 to 41 kPa (4 to 6 psi). Do not release air from warm tires to adjust the pressure or the tires will be underinflated.
- Be sure to reinstall the tire inflation valve caps. Without the valve cap, dirt or moisture could get into the valve core and cause air leakage. If a valve cap is missing, install a new one as soon as possible.

A WARNING

Tire Inflation

Overinflation or underinflation can reduce tire life, adversely affect vehicle handling, and lead to sudden tire failure. This could result in loss of vehicle control and potential injury.

CAUTION

Tire pressure Always observe the following:

- Check tire pressure when the tires are cold. (After vehicle has been parked for at least three hours or hasn't been driven more than 1.6 km (one mile) since startup.)
- Check the pressure of your spare tire each time you check the pressure of other tires.
- Never overload your vehicle. Be careful not to overload a vehicle luggage rack if your vehicle is equipped with one.
- Worn, old tires can cause accidents. If your tread is badly worn, or if your tires have been damaged, replace them.

Checking tire inflation pressure

Check your tires once a month or more.

Also, check the tire pressure of the spare tire.

How to check

Use a good quality gauge to check tire pressure. You can not tell if your tires are properly inflated simply by looking at them. Radial tires may look properly inflated even when they're underinflated.

 Check the tire's inflation pressure when the tires are cold. – "Cold" means your vehicle has been sitting for at least three hours or driven no more than 1.6 km (1 mile).

 Remove the valve cap from the tire valve stem. Press the tire gauge firmly onto the valve to get a pressure measurement. If the cold tire inflation pressure matches the recommended pressure on the tire and loading information label, no further adjustment is necessary. If the pressure is low, add air until you reach the recommended amount. If you overfill the tire, release air by pushing on the metal stem in the center of the tire valve. Recheck the tire pressure with the tire gauge. Be sure to put the valve caps back on the valve stems. They help prevent leaks by keeping out dirt and moisture.

A WARNING

- 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 causing poor handling, 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 driver's side center pillar.

- Worn tires can cause accidents. Replace tires that are worn, show uneven wear, or are damaged.
- Remember to check the pressure of your spare tire. Kia recommends that you check the spare every time you check the pressure of the other tires on your vehicle.

Tire rotation

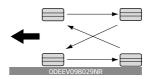
To equalize tread wear, it is recommended that the tires be rotated every 10,000 km (6,500 miles) or sooner if irregular wear develops.

During rotation, check the tires for correct balance.

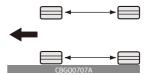
When rotating tires, check for uneven wear and damage. Abnormal wear is usually caused by incorrect tire pressure, improper wheel alignment, outof- balance wheels, severe braking or severe cornering. Look for bumps or bulges in the tread or side of tire. Replace the tire if you find either of these conditions. Replace the tire if fabric or cord is visible. After rotation, be sure to bring the front and rear tire pressures to specification and check lug nut tightness.

Refer to "Tires and wheels (5 Door, Wagon, Shooting brake)" on page 96, "Tires and wheels (CUV)" on page 9-7.

Without a spare tire



Directional tires (if equipped)



Disc brake pads should be inspected for wear whenever tires are rotated.

* NOTICE

Rotate radial tires that have an asymmetric tread pattern only from front to rear and not from right to left.

A WARNING

- Do not use the compact spare tire for tire rotation.
- Do not mix bias ply and radial ply tires under any circumstances.
 This may cause unusual handling characteristics that could result in death, severe injury, or property damage.

Wheel alignment and tire balance

The wheels on your vehicle were aligned and balanced carefully at the factory to give you the longest tire life and best overall performance.

In most cases, you will not need to have your wheels aligned again. However, if you notice unusual tire wear or your vehicle pulling one way or the other, the alignment may need to be reset.

If you notice your vehicle vibrating when driving on a smooth road, your wheels may need to be rebalanced.

A CAUTION

Improper wheel weights can damage your vehicle's aluminum wheels. Use only approved wheel weights.

Tire replacement

If the tire is worn evenly, a tread wear Indicator will appear as a solid band across the tread.



This shows there is less than 1.6 mm (1/16 in.) of tread left on the tire. Replace the tire when this happens.

Do not wait for the band to appear across the entire tread before replacing the tire.

* NOTICE

We recommend that when replacing tires, use the same originally supplied with the vehicles. ALWAYS use tires with the same type, size, brand, construction and tread pattern for all four wheels. If not, that affects driving performance.

▲ CAUTION

When replacing the tires, recheck and tighten the wheel nuts after driving about 50 km (31 miles) and recheck after driving about 1,000 km (620 miles). If the steering wheel shakes or the vehicle vibrates while driving, the tire is out of balance. Align the tire balance. If the problem is not solved, contact a professional workshop. Kia recommends to visit an authorized Kia dealer/service partner.

A WARNING

Replacing tires

To reduce the chance of serious or fatal injuries from an accident caused by tire failure or loss of vehicle control:

- Replace tires that are worn, show uneven wear, or are damaged.
 Worn tires can cause loss of braking effectiveness, steering control, and traction.
- Do not drive your vehicle with too little or too much pressure in your tires. This can lead to uneven wear and tire failure.
- When replacing tires, never mix radial and bias-ply tires on the same car. You must replace all tires (including the spare) if moving from radial to bias-ply tires.
- It is best to replace all four tires at the same time. If that is not possible, or necessary, then replace the two front or two rear tires as a pair. Replacing just one tire can seriously affect your vehicle's handling.
- Using tires and wheels other than the recommended sizes could cause unusual handling characteristics and poor vehicle control, resulting in a serious accident.
- Wheels that do not meet Kia's specifications may fit poorly and result in damage to the vehicle or unusual handling and poor vehicle control.

 The ABS works by comparing the speed of the wheels. The tire size affects wheel speed. When replacing tires, all 4 tires must use the same size, type, construction and tread pattern originally supplied with the vehicle. Using tires of a different size can cause the ABS (Anti-lock Brake System) and ESC (Electronic Stability Control) to work irregularly.

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 WARNING

A wheel that is not the correct size may adversely affect wheel and bearing life, braking and stopping abilities, handling characteristics, ground clearance, body-to-tire clearance, snow chain clearance, speedometer and odometer calibration, headlight aim and bumper height.

Tire traction

Tire traction can be reduced if you drive on worn tires, tires that are improperly inflated or on slippery road surfaces. Tires should be replaced when tread wear indicators appear. Slow down whenever there is rain, snow or ice on the road to reduce the possibility of losing control of the vehicle.

Tire maintenance

In addition to proper inflation, correct wheel alignment helps to decrease tire wear. If you find a tire is worn unevenly, have a professional workshop check the wheel alignment. Kia recommends to visit an authorized Kia dealer/service partner.

When you have new tires installed, make sure they are balanced. This will increase vehicle ride comfort and tire life. Additionally, a tire should always be rebalanced if it is removed from the wheel.

Tire sidewall labeling

This information identifies and describes the fundamental characteristics of the tire and also provides the tire identification number (TIN) for safety standard certification.



The TIN can be used to identify the tire in case of a recall.

1. Manufacturer or brand name

Manufacturer or Brand name is shown.

2. Tire size designation

A tire's sidewall is marked with a tire size designation. You will need this information when selecting replacement tires for your vehicle. The following explains what the letters and numbers in the tire size designation mean.

Example tire size designation:

(These numbers are provided as an example only; your tire size designator could vary depending on your vehicle.)

205/55R16 or 205/60R16 108T

205 - Tire width in millimeters.

55 or 60 - Aspect ratio. The tire's section height as a percentage of its width.

R - Tire construction code (Radial).

16 - Rim diameter in inches.

108 - Load Index, a numerical code associated with the maximum load the tire can carry.

T - Speed Rating Symbol. See the speed rating chart in this section for additional information.

Wheel size designation

Wheels are also marked with important information that you need if you ever have to replace one. The following explains what the letters and numbers in the wheel size designation mean.

Example wheel size designation:

6.5J X 16

6.5 - Rim width in inches.

J - Rim contour designation.

16 - Rim diameter in inches.

Tire speed ratings

The chart below lists many of the different speed ratings currently being used for passenger car tires. The speed rating is part of the tire size designation on the sidewall of the tire. This symbol corresponds to that tire's designed maximum safe operating speed.

Speed Rating Symbol	Maximum Speed
S	180 km/h (112 mph)
Т	190 km/h (118 mph)
Н	210 km/h (130 mph)
V	240 km/h (149 mph)
W	270 km/h (168 mph)
Y	300 km/h (186 mph)

3. Checking tire life (TIN : Tire Identification Number)

Any tires that are over 6 years old, based on the manufacturing date, (including the spare tire) should be replaced by new ones. You can find the manufacturing date on the tire sidewall (possibly on the inside of the wheel), displaying the DOT Code. The DOT Code is a series of numbers on a tire consisting of numbers and English letters. The manufacturing date is designated by the last four digits (characters) of the DOT code.

DOT: XXXX XXXX 0000

The front part of the DOT means a plant code number, tire size and tread pattern and the last four numbers indicate week and year manufactured.

For example:

DOT XXXX XXXX 1619 represents that the tire was produced in the 16th week of 2019.

A WARNING

Tire age

Tires degrade over time, even when they are not being used. Regardless of the remaining tread, we recommend that tires be replaced after approximately six (6) years of normal service. Heat caused by hot climates or frequent high loading conditions can accelerate the aging process. Failure to follow this warning can result in sudden tire failure, which could lead to a loss of control and an accident involving serious injury or death.

4. Tire ply composition and material

The number of layers or plies of rubber-coated fabric in the tire. Tire manufacturers also must indicate the materials in the tire, which include steel, nylon, polyester, and others. The letter "R" means radial ply construction; the letter "D" means diagonal or bias ply construction; and the letter "B" means belted-bias ply construction.

5. Maximum permissible inflation pressure

This number is the greatest amount of air pressure that should be put in the tire. Do not exceed the maximum permissible inflation pressure. Refer to "Tire specification and pressure label" on page 9–19.

6. Maximum load rating

This number indicates the maximum load in kilograms and pounds that can be carried by the tire. When replacing the tires on the vehicle, always use a tire that has the same load rating as the factory installed tire.

7. Uniform tire quality grading

Quality grades can be found where applicable on the tire sidewall between tread shoulder and maximum section width. For example: TREADWEAR 200 TRACTION AA TEMPERATURE A

Tread wear

The tread wear grade is a comparative rating based on the wear rate of the tire when tested under controlled conditions on a specified government test course. For example, a tire graded 150 would wear one-and-a-half times (1½) as well on the government course as a tire graded 100.

The relative performance of tires depends upon the actual conditions of their use, however, and may depart significantly from the norm due to variations in driving habits, service practices and differences in road characteristics and climate.

These grades are molded on the side-walls of passenger vehicle tires. The tires available as standard or optional equipment on your vehicle may vary with respect to grade.

Traction - AA, A, B & C

The traction grades, from highest to lowest, are AA, A, B and C. Those grades represent the tire's ability to stop on wet pavement as measured under controlled conditions on specified government test surfaces of asphalt and concrete. A tire marked C may have poor traction performance.

Temperature -A, B & C

The temperature grades are A (the highest), B, and C, representing the tire's resistance to the generation of heat and its ability to dissipate heat when tested under controlled conditions on a specified indoor laboratory test wheel.

Sustained high temperature can cause the material of the tire to degenerate and reduce tire life, and excessive temperature can lead to sudden tire failure. Grades B and A represent higher levels of performance on the laboratory test wheel than the minimum required by law.

A WARNING

The traction grade assigned to this tire is based on straightahead braking traction tests, and does not include acceleration, cornering, hydroplaning, or peak traction characteristics.

A WARNING

Tire temperature

The temperature grade for this tire is established for a tire that is properly inflated and not overloaded. Excessive speed, underinflation, or excessive loading, either separately or in combination, can cause heat build-up and possible sudden tire failure. This can cause loss of vehicle control and serious injury or death.

Low aspect ratio tire (if equipped)

Low aspect ratio tires, whose aspect ratio is lower than 50, are provided for sporty looks.

Because the low aspect ratio tires are optimized for handling and braking, it may be more uncomfortable to ride in and there is more noise compare with normal tires.

A CAUTION

Because the sidewall of the low aspect ratio tire is shorter than the normal, the wheel and tire of the low aspect ratio tire is easier to be damaged. So, follow the instructions below.

- When driving on a rough road or off road, drive cautiously because tires and wheels may be damaged. And after driving, inspect tires and wheels.
- When passing over a pothole, speed bump, manhole, or curb stone, drive slowly so that the tires and wheels are not damaged.
- If the tire is impacted, inspect the tire condition or contact a professional workshop. Kia

recommends to visit an authorized Kia dealer/service partner.

 To prevent damage to the tire, inspect the tire condition and pressure every 3,000 km.

A CAUTION

- It is not easy to recognize the tire damage with your own eyes. But if there is the slightest hint of tire damage, even though you cannot see the tire damage with your own eyes, have the tire checked or replaced because the tire damage may cause air leakage from the tire.
- If the tire is damaged by driving on a rough road, off road, pothole, manhole, or curb stone, it will not be covered by the warranty.
- You can find out the tire information on the tire sidewall.

Fuses

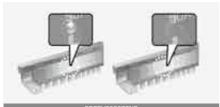
Blade type



ODEEV098032NR Cartridge type



odeevo98077NR Multi fuse



BFT



ODEEVOSOOVSMK

* Left side: Normal, Right side: Blown

A vehicle's electrical system is protected from electrical overload damage by fuses. This vehicle has 2 (or 3) fuse panels, one located in the driver's side panel bolster, the 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 has blown, the element inside the fuse will melt.

If the electrical system does not work, first check the driver's side fuse panel.

Before replacing a blown fuse, disconnect the negative battery cable.

Always replace a blown fuse with one of the same rating.

If the replacement fuse blows, this indicates an electrical problem. Avoid using the system involved and immediately consult a professional workshop. Kia recommends to consult an authorized Kia dealer/ service partner.

Three kinds of fuses are used: blade type for lower amperage rating, cartridge type, and multi fuse for higher amperage ratings.

A WARNING

Fuse replacement

• Never replace a fuse with anything but another fuse of the same rating.

- A higher capacity fuse could cause damage and possibly a fire.
- Never install a wire or aluminum foil instead of the proper fuse even as a temporary repair. It may cause extensive wiring damage and a possible fire.
- Do not arbitrarily modify or addon electric wiring of the vehicle.

A CAUTION

Do not use a screwdriver or any other metal object to remove fuses because it may cause a short circuit and damage the system.

* NOTICE

- When replacing fuse, turn the ignition "OFF" and turn off switches of all electrical devices then remove battery (-) terminal.
- The actual fuse/relay panel label may differ from equipped items.

A CAUTION

- When replacing a blown fuse or relay with a new one, make sure the new fuse or relay fits tightly into the clips. The incomplete fastening fuse or relay may cause the vehicle wiring and electric systems damage and a possible fire.
- Do not remove fuses, relays and terminals fastened with

bolts or nuts. The fuses, relays and terminals may be fastened incompletely, and it may cause a possible fire. If fuses, relays and terminals fastened with bolts or nuts are blown, consult a professional workshop. Kia recommends to consult an authorized Kia dealer/service partner.

- Do not input any other objects except fuses or relays into fuse/ relay terminals such as a driver or wiring. It may cause contact failure and system malfunction.
- Do not plug in screwdrivers or aftermarket wiring into the terminal originally designed for fuse and relays only. The electrical system and wiring of the vehicle interior may be damaged or burned due to contact failure.
- If you directly connect the wire on the taillight or replace the bulb which is over the regulated capacity to install trailers etc., the inner junction block can get burned.

A CAUTION

Visually inspect the battery cap to ensure it is securely closed. If the battery cap is not securely closed, moisture may enter the system and damage the electrical components.

8

* NOTICE

Random wiring prohibited when retrofitting equipment

Use of random wiring in the vehicle might cause danger due to failure and damage of the vehicle's performance.

Using random wires especially when retrofitting AVN or theft alarm system, remote engine control, car phone or radio might damage the vehicle or cause fire.

* NOTICE

Remodeling Prohibited

Do not try remodeling the vehicle in any way. It is illegal, and may affect the vehicle's performance, durability, and safety. Warranty is also not provided for problems caused by remodeling.

Be aware of safety problems caused by remodeling the vehicle with unauthoriz40 ed electrical devices(lamp, black box, electrical equipment, diagnostic device, communication device, etc.). It might cause malfunction of the vehicle, battery discharge, damage on wiring or connectors, or even fire.

* NOTICE

Window tinting precaution

Window tint (especially metallic film) might cause communication disorder or poor radio reception, and malfunction of the automatic lighting system due to excessive change of illumination inside the vehicle.

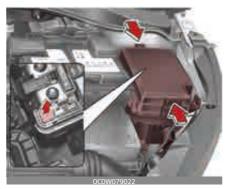
The solution used might also flow into electric, electronic devices causing disorder and failure.

Inner panel fuse replacement

- 1. Turn the ignition switch and all other switches off.
- 2. Open the fuse panel cover.



3. Pull the suspected fuse straight out. Use the removal tool provided in the main fuse box in the engine compartment.



4. Check the removed fuse; replace it if it is blown.

Spare fuses are provided in the instrument panel fuse panel (or in the engine compartment fuse panel).

5. Push in a new fuse of the same rating, and make sure it fits tightly in the clips.

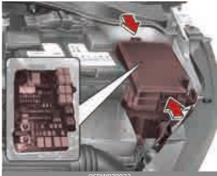
If it fits loosely, consult a professional workshop. Kia recommends to consult an authorized Kia dealer/service partner.

If you do not have a spare, use a fuse of the same rating from a circuit you may not need for operating the vehicle, such as the cigarette lighter fuse.

If the headlights or taillights, stoplights, courtesy lamp, day time running lights (D.R.L) do not work and the fuses are OK, consult a professional workshop. Kia recommends to consult an authorized Kia dealer/service partner.

Engine compartment fuse replacement

- 1. Turn the ignition switch and all other switches off.
- 2. Remove the fuse panel cover by pressing the tab and pulling the cover up.



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When the blade type fuse is disconnected, remove it by using the clip designed for changing fuses located in the engine room fuse box. Upon removal, securely insert reserve fuse of equal quantity.

- 3. Check the removed fuse: replace it if it is blown. To remove or insert the fuse, use the fuse puller in the engine compartment fuse panel.
- 4. Push in a new fuse of the same rating, and make sure it fits tightly in the clips. If it fits loosely,

consult a professional workshop. Kia recommends to consult an authorized Kia dealer/service partner.

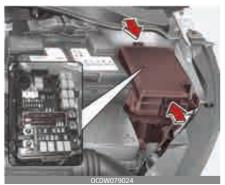
A CAUTION



After checking the fuse panel in the engine compartment, securely install the fuse panel cover through the audible clicking sound.

If not, electrical failures may occur from water contact.

Multi fuse



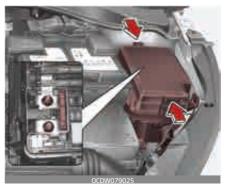
If the multi fuse is blown, it must be removed as follows:

- 1. Disconnect the negative battery cable.
- 2. Remove the nuts shown in the picture above.
- 3. Replace the fuse with a new one of the same rating.
- 4. Reinstall in the reverse order of removal.

* NOTICE

If the multi fuse is blown, consult a professional workshop. Kia recommends to consult an authorized Kia dealer/service partner.

Main fuse



If the main fuse is blown, it must be removed as follows:

- 1. Turn off the engine.
- 2. Disconnect the negative battery cable.
- 3. Remove the nuts shown in the picture above.
- 4. Replace the fuse with a new one of the same rating.
- 5. Reinstall in the reverse order of removal.

If the main fuse is blown, even though the engine compartment panel fuse and inner fuse are not blown, if the electrical system is not operated, the main fuse may be blown. The main fuse is connected with other parts and system. Contact a professional workshop. Kia recommends to visit an authorized Kia dealer/service partner.

Battery fuse



* NOTICE

▲ CAUTION



If the battery fuse is blown, consult a professional workshop. Kia recommends to consult an authorized Kia dealer/service partner.

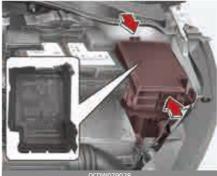
Visually inspect the battery cap for secure closing. If the battery cap is not securely latched, the electrical system may be damaged to due influx of moisture into the system.

Fuse/relay panel description

Driver's side fuse panel



Engine compartment fuse panel



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Engine compartment fuse panel (Battery terminal cover)



8

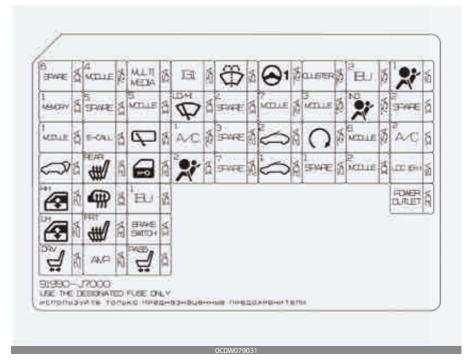
Inside the fuse/relay panel covers, you can find the fuse/relay label describing fuse/relay name and capacity.

* NOTICE



Not all fuse panel descriptions in this manual may be applicable to your vehicle. It is accurate at the time of printing. When you inspect the fuse panel in your vehicle, refer to the fuse panel label.

Driver's side fuse panel



Instrument panel (Driver's side fuse panel)

Fuse Name	Symbol	Fuse rating	Circuit Protected	
MEMORY 1	1 MEMORY	10A	Driver IMS (Integrated memory system) Module, Air Conditioner Control Module, Power Tail Gate Module	
MODULE 1		10A	Active Air Flap, Data Link Connector, Instrument Cluster, Hazard Switch, ICM (Integrated Circuit Module) Relay Box (Outside Mirror Folding/Unfolding Relay), Auto Light & Photo Sensor, Console Switch, Driver/Passenger Smart Key Outside Handle	
TAIL GATE	Į	10A	Tail Gate Relay	
POWER WINDOW RH		25A	Power Window Right Handle side Relay, Driver/ Passenger Safety Power Window Module, Rear Safety Power Window Module Right Handle side	
POWER WINDOW LH		25A	Power Window Left Handle side Relay, Driver/ Passenger Safety Power Window Module, Rear Safety Power Window Module Left Handle side	

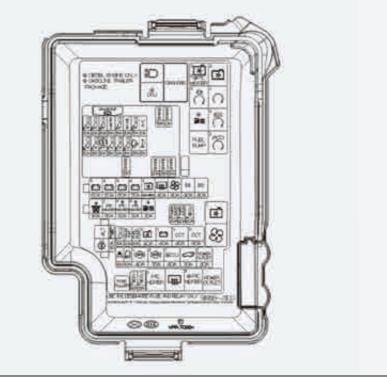
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Fuse Name	Symbol	Fuse rating	Circuit Protected	
POWER SEAT DRIVER		25A	Driver IMS (Integrated memory system) Module, Driver Seat Manual Switch	
MODULE 4	4 MODULE	7.5A	Smart Parking Assist Control Module, Crash Pad Switch, IBU (Integrated Body Control Unit), Lane Keeping Assist-Line Unit, Blind-Spot Collision Warning Unit Left Handle side/Right Handle side, Electric Parking Brake Switch, Dosing Control Module, Active Air Flap, Forward Collision-Avoidance Assist Unit	
E-CALL	E-CALL	10A	MTS (Mozen Telematics System) E-Call Module	
SEAT HEATER REAR	REAR	20A	Rear Seat Warmer Control Module	
HEATED MIRROR	E	10A	Driver/Passenger Power Outside Mirror, Air Conditioner Control Module, ECM (Engine Control Module)/PCM (Power train Control Module)	
SEAT HEATER FRONT		20A	Front Seat Warmer Control Module, Front Air Ventilation Seat Control Module	
AMP	AMP	25A	Low DC (Direct Current)-DC (Direct Current) Converter (AMP (Amplifier)), AMP (Amplifier)	
MULTI MEDIA	MULTI MEDIA	15A	Low DC (Direct Current)-DC (Direct Current) Converter (Audio/AMP (Amplifier)), Audio, Audio/Video & Navigation Head Unit	
MODULE 5	Module	10A	Rear Seat Warmer Control Module, MTS (Mozen Telematics System) E-Call Module, Electro Chromic Mirror, Audio, Audio/Video & Navigation Head Unit, Auto Transmission Shift Lever Illumination, Air Conditioner Control Module, Low DC (Direct Current)-DC (Direct Current) Converter (Audio/AMP (Amplifier)), Front Seat Warmer Control Module, Front Air Ventilation Seat Control Module, Driver IMS (Integrated memory system) Module, Head Lamp Left Handle side/Right Handle side	
REAR WIPER	Ð	15A	Rear Wiper Motor, ICM (Integrated Circuit Module) Relay Box (Rear Wiper Relay)	
DOOR LOCK		20A	Door Lock/Unlock Relay	
IBU 1	¹ IBU	15A	IBU (Integrated Body Control Unit)	
BRAKE SWITCH	BRAKE SWITCH	10A	IBU (Integrated Body Control Unit), Stop Lamp Switch	
POWER SEAT PASSENGER		10A	Front Seat Warmer Control Module, Front Air Ventilation Seat Control Module	
IG 1	IG1	25A	Engine Room Junction Block (Fuse - ECU5, SENSOR4, ABS3, TCU2)	

Fuse Name	Symbol	Fuse rating	Circuit Protected	
WIPER	LO/HI	10A	Engine Room Junction Block (Front Wiper (Low) Relay), Front Wiper Motor, IBU (Integrated Body Control Unit), ECM (Engine Control Module)/PCM (Power train Control Module)	
AIR CONDITIONER 1	¹ A/C	7.5A	Engine Room Junction Block (COOLING FAN 3 Relay, PTC HEATER 2 Relay, BLOWER Relay, PTC HEATER 1 Relay, PTC HEATER 3 Relay), Air Conditioner Control Module	
AIR BAG 2	2	10A	SRS (Supplemental Restraint System) Control Module	
WASHER	$\langle D \rangle$	15A	Multifunction Switch	
MDPS		7.5A	MDPS (Motor Driven Power Steering) Unit	
MODULE 7	7 MODULE	7.5A	Rear Seat Warmer Control Module, Front Seat Warmer Control Module, Front Air Ventilation Seat Control Module, Nozzle Heater, Engine Room Junction Block (HEAD LAMP HIGH Relay, DCU (Dosing Control Unit) Relay), Cooling Fan Motor	
SUNROOF 2	²	20A	Panorama Sunroof Motor	
SUNROOF 1	Ŋ	20A	Panorama Sunroof Motor	
CLUSTER	CLUSTER	7.5A	Instrument Cluster	
MODULE 3	3 MODULE	7.5A	Sport Mode Switch, Stop Lamp Switch	
START	C	7.5A	ICM (Integrated Circuit Module) Relay Box (Burglar Alarm Relay), Transmission Range Switch, Engine Room Junction Block (PDM 3 (IG1) Relay), IBU (Integrated Body Control Unit), ECM (Engine Control Module), PCM (Power train Control Module)	
IBU 2	² IBU	7.5A	IBU (Integrated Body Control Unit)	
AIR BAG INDICATOR		7.5A	Instrument Cluster, Hazard Switch	
MODULE 6		7.5A	IBU (Integrated Body Control Unit)	
MODULE 2	2 MODULE	10A	Audio, Audio/Video & Navigation Head Unit, Low DC (Direct Current)-DC (Direct Current) Converter (Audio/ AMP (Amplifier)), IBU (Integrated Body Control Unit), MTS (Mozen Telematics System) E-Call Module, Wireless Charger, Engine Room Junction Block (POWER OUTLET Relay), AMP (Amplifier), Power Outside Mirror Switch	
AIR BAG 1	1	15A	SRS (Supplemental Restraint System) Control Module	

Fuse Name	Symbol	Fuse rating	Circuit Protected	
AIR CONDITIONER 2	² A/C	10A	Engine Room Junction Block (BLOWER Relay), Air Conditioner Control Module, Blower Resistor, Blower Motor, ECM (Engine Control Module)/PCM (Power trai Control Module)	
LDC (B+)	LDC (B+)	15A	Audio, Audio/Video & Navigation Head Unit, Instrument Cluster, Air Conditioner Control Module, Low DC (Direct Current)-DC (Direct Current) Converter (Audio/AMP (Amplifier))	
POWER OUTLET	POWER OUTLET	20A	Front Power Outlet, Power Outlet Left Handle side	

Engine compartment fuse panel



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Engine compartment fuse panel (Battery terminal cover)

Engine room compartment fuse panel

Fuse Name	Symbol	Fuse rating	Circuit Protected	
ALTERNATOR	ALT	150 (180/200)A Fuse : BURGLAR ALARM, HEAD LAMP HIGH, ABS1, ABS2, DCU1, POWER TAIL GATE MODULE, POWER OUTLET1, Alternator		
MDPS 1		80A	MDPS (Motor Driven Power Steering) Unit	
BATTERY 5	۶ ۲	60A	Fuse: COOLING FAN1, REAR HEATED, PTC HEATER2, PTC HEATER3, FUEL HEATER, Engine Control Relay	
BATTERY 2	2 1	60A	Instrument Panel Junction Block	
BATTERY 3	3 1 1	60A	Instrument Panel Junction Block	
BATTERY 4	4 [+	50A	Instrument Panel Junction Block (Fuse : TAIL GATE, POWER WINDOW RH, POWER WINDOW LH, POWER SEAT DRIVER, SEAT HEATER FRONT, AMP, POWER SEAT PASSENGER, SUNROOF2, SUNROOF1)	
Cooling Fan 1	1 **	60(50)A	COOLING FAN 2 Relay, COOLING FAN 1 Relay	

Fuse Name	Symbol	Fuse rating	Circuit Protected	
REAR HEATED	[#]	40A	REAR HEATED Relay	
BLOWER	දිපි	40A	BLOWER Relay	
IG1	IG1	40A	Ignition Switch, PDM 3 (IG1) Relay, PDM 2 (ACC) Relay	
IG2	IG2	40A	Ignition Switch, START Relay, PDM 4 (IG2) Relay	
GLOW	00	80A	Glow Unit	
PTC HEATER 1	¹ PTC HEATER	50A	PTC HEATER 1 Relay	
PTC HEATER 2	² PTC HEATER	50A	PTC HEATER 2 Relay	
PTC HEATER 3	³ PTC HEATER	50A	PTC HEATER 3 Relay	
FUEL HEATER		30A	FUEL HEATER Relay	
POWER OUTLET 3	³ POWER OUTLET	20A	Rear Power Outlet	
POWER OUTLET 2	² POWER OUTLET	20A	Front Power Outlet, Power Outlet Right Handle side	
DCU 2	² DCU	20A	Dosing Control Module	
TCU 1		15A	TCM (Transmission Control Module)	
VACUUM PUMP	VACUUM PUMP	20A	Vacuum Pump	
FUEL PUMP	FUEL PUMP	20A	FUEL PUMP Relay	
COOLING FAN 2	² 🗱	40A	COOLING FAN 3 Relay, COOLING FAN 2 Relay	
BATTERY 1		40A	Instrument Panel Junction Block (LONG TERM LOAD LATCH RELAY, Fuse : MODULE1, SEAT HEATER REAR, DOOR LOCK, IBU1, BRAKE SWITCH, AIR BAG2)	
DCT 1		40A	TCM (Transmission Control Module)	
DCT 2	² DCT	40A	TCM (Transmission Control Module)	
BURGLAR ALARM	')	10A	Burglar Alarm Relay	
HEAD LAMP HIGH	١D	10A	HEAD LAMP HIGH Relay	
ABS 1	1 ((ABS))	40A	ESC (Electronic Stability Control) Control Module	
ABS 2	2 (ABS))	30A	ESC (Electronic Stability Control) Control Module	
DCU 1	¹ DCU	40A	DCU (Dosing Control Unit) Relay	
POWER TAIL GATE MODULE	ą	30A	Power Tail Gate Module	
POWER OUTLET 1	POWER OUTLET	40A	POWER OUTLET Relay	

Fuse Name	Symbol	Fuse rating	Circuit Protected	
DCU 4	⁴ DCU	20A	Dosing Control Module	
DCU 3	³ DCU	15A	Dosing Control Module	
SENSOR 2		10A	[Kappa 1.4L MPI] Purge Control Solenoid Valve, Variable Intake Solenoid Valve, COOLING FAN 3 Relay, COOLING FAN 2 Relay, Oil Control Valve (Intake/Exhaust) [Kappa 1.0L T-GDI] Air Conditioner Compressor Relay, Purge Control Solenoid Valve, RCV Control Solenoid Valve, COOLING FAN 1 Relay, Oil Control Valve (Intake/ Exhaust) [Kappa 1.4L T-GDI] Air Conditioner Compressor Relay, Purge Control Solenoid Valve, RCV Control Solenoid Valve, COOLING FAN 1 Relay, Oil Control Valve (Intake/ Exhaust) [Kappa 1.4L T-GDI] Air Conditioner Compressor Relay, Purge Control Solenoid Valve, RCV Control Solenoid Valve, COOLING FAN 1 Relay, Oil Control Valve (Intake/ Exhaust) [Gamma 1.6L MPI] Purge Control Solenoid Valve, Variable Intake Solenoid Valve, COOLING FAN 3 Relay, COOLING FAN 2 Relay, Oil Control Valve (Intake/Exhaust) [Gamma 1.6L TGI Engine] Oil Control Valve #1/#2, CCV, Cooling Fan 2 Relay, PCSV, RCV [SmartStream D 1.6] Air Conditioner Compressor Relay, PTC HEATER 1 Relay, PM Sensor, Electronic VGT Actuator, Oil Level Switch	
ECU 2	Č	10A	[Kappa 1.4L MPI] ECM (Engine Control Module) [Kappa 1.0L T-GDI] ECM (Engine Control Module) [Kappa 1.4L T-GDI] ECM (Engine Control Module) [Gamma 1.6L MPI] ECM (Engine Control Module)/PCM (Power train Control Module) [Gamma 1.6L T-GDI] ECM (Engine Control Module)	
ECU 1	Ċ	20A	[Kappa 1.4L MPI] ECM (Engine Control Module) [Kappa 1.0L T-GDI] ECM (Engine Control Module) [Kappa 1.4L T-GDI] ECM (Engine Control Module) [Gamma 1.6L MPI] ECM (Engine Control Module)/PCM (Power train Control Module) [Gamma 1.6L T-GDI] ECM (Engine Control Module) [SmartStream D 1.6] ECM (Engine Control Module)	
INJECTOR	INJECTOR	15A	[Kappa 1.4L MPI] Injector #1~#4 [Gamma 1.6L MPI] Injector #1~#4	

Fuse Name	Symbol	Fuse rating	Circuit Protected	
SENSOR 1		15A	[Kappa 1.4L MPI] Oxygen Sensor (Up), Oxygen Sensor (Down) [Kappa 1.0L T-GDI] Oxygen Sensor (Up), Oxygen Sensor (Down) [Kappa 1.4L T-GDI] Oxygen Sensor (Up), Oxygen Sensor (Down) [Gamma 1.6L MPI] Oxygen Sensor (Up), Oxygen Sensor (Down) [Gamma 1.6L T-GDI] ECM (Engine Control Module), Oxygen Sensor (UP/Down) [SmartStream D 1.6] Lambda Sensor (Up/Down), Air Flow Sensor, Oil Pressure Solenoid Valve	
IGNITION COIL	ign Coil	20A	[Kappa 1.4L MPI] Ignition Coil #1~#4, Condenser [Kappa 1.0L T-GDI] Ignition Coil #1~#3 [Kappa 1.4L T-GDI] Ignition Coil #1~#4 [Gamma 1.6L MPI] Ignition Coil #1~#4, Condenser [Gamma 1.6L T-GDI] Ignition Coil #1~#4, Condenser [SmartStream D 1.6] Front/Rear Nox Sensor	
ECU 3	Ċ	15A	[Kappa 1.4L MPI] ECM (Engine Control Module) [Kappa 1.0L T-GDI] ECM (Engine Control Module) [Kappa 1.4L T-GDI] ECM (Engine Control Module) [Gamma 1.6L MPI] ECM (Engine Control Module)/PCM (Power train Control Module) [Gamma 1.6L T-GDI] ECM (Engine Control Module) [SmartStream D 1.6] ECM (Engine Control Module)	
AIR CONDITIONER	A/C	10A	[Kappa 1.0L T-GDI] Air Conditioner Compressor [Kappa 1.4L T-GDI] Air Conditioner Compressor [Gamma 1.6L T-GDI] Air Conditioner Compressor [SmartStream D 1.6] Air Conditioner Compressor	
ECU 5	۵ ۲	10A	[Kappa 1.4L MPI] ECM (Engine Control Module) [Kappa 1.0L T-GDI] ECM (Engine Control Module) [Kappa 1.4L T-GDI] ECM (Engine Control Module) [Gamma 1.6L MPI] ECM (Engine Control Module)/PCM (Power train Control Module) [Gamma 1.6L T-GDI] ECM (Engine Control Module) [SmartStream D 1.6] ECM (Engine Control Module)	
SENSOR 4	а Ср ш	15A	[Kappa 1.4L T-GDI] Vacuum Pump [SmartStream D 1.6] Fuel Filter Warning Sensor, Glow Unit	
ABS 3	3 ((ABS))	10A	[ALL] ESC (Electronic Stability Control) Control Module, Clutch Master Cylinder	

Fuse Name	Symbol	Fuse rating	Circuit Protected	
TCU 2		[Gamma 1.6L T-GDI] Electric Vacuum Pump [Kappa 1.4L T-GDI] TCM (Transmission Control Module Transmission Range Switch [Gamma 1.6L MPI] Transmission Range Switch [Gamma 1.6L T-GDI] Vehicle Speed Sensor, Transmission Range Switch, TCM (Transmission Contro Module) [SmartStream D 1.6] TCM (Transmission Control Module), Transmission Range Switch		
SENSOR 3	°	10A	[Kappa 1.4L MPI] FUEL PUMP Relay [Kappa 1.0L T-GDI] FUEL PUMP Relay [Kappa 1.4L T-GDI] FUEL PUMP Relay [Gamma 1.6L MPI] FUEL PUMP Relay [Gamma 1.6L T-GDI] FUEL PUMP Relay [SmartStream D 1.6] FUEL PUMP Relay, FUEL HEATER Relay	
ECU 4	ٿ ي ٿ	15A	[Kappa 1.0L T-GDI] ECM (Engine Control Module) [Kappa 1.4L T-GDI] ECM (Engine Control Module) [Gamma 1.6L MPI] ECM (Engine Control Module)/PCM (Power train Control Module) [Gamma 1.6L T-GDI] ECM (Engine Control Module) [SmartStream D 1.6] ECM (Engine Control Module)	
WIPER	φ	25A	[ALL] Wiper Relay	
HORN	ð	15A	[ALL] Wiper Relay	

Relay

Relay Name	Symbol	Type
COOLING FAN 3 Relay	³ 🗱	MICRO
PTC HEATER 2 Relay	² PTC HEATER	MICRO
COOLING FAN 2 Relay	2 E	MICRO
PDM 3 (IG1) Relay	³ (IG1)	MICRO
START Relay	¹ O	MICRO
FUEL HEATER Relay		MICRO
PDM 4 (IG2) Relay	4 (IG2)	MICRO
FUEL PUMP Relay	FUEL PUMP	MICRO
PDM 2 (ACC) Relay	2 (ACC)	MICRO
COOLING FAN 1 Relay	1	MINI

Relay Name	Symbol	Type
BLOWER Relay	දිපි	MINI
PTC HEATER 1 Relay	¹ PTC HEATER	MICRO
REAR HEATED Relay	[#]	MICRO
PTC HEATER 3 Relay	³ PTC HEATER	MICRO
POWER OUTLET Relay	POWER OUTLET	MICRO
HEAD LAMP HIGH Relay	١D	MICRO
DCU Relay	DCU	MICRO

Light bulbs

Bulb replacement precaution

Please prepare bulbs with appropriate standards in case of emergencies. Refer to "Bulb wattage" on page 9-5.

When changing bulbs and sorts, first turn off the engine at a safe place, firmly apply the side brake and take out the battery's negative (-) terminal.

A WARNING

Working on the lights

Prior to working on the light, firmly apply the parking brake, ensure that the ignition switch is turned to the LOCK position and turn off the lights to avoid sudden movement of the vehicle and burning your fingers or receiving an electric shock.

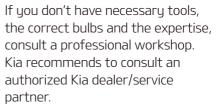
Use only the bulbs of the specified wattage.

A WARNING



Be sure to replace the burnedout bulb with one of the same wattage rating. Otherwise, it may cause extensive wiring damage and possible fire.

▲ CAUTION



In many cases, it is difficult to replace vehicle light bulbs because other parts of the vehicle must be removed before you can get to the bulb. This is especially true if you have to remove the headlight assembly to get to the bulb(s). Removing/installing the headlight assembly can result in damage to the vehicle.

A CAUTION

- If unauthentic parts or substandard lights are used when changing lights, it may lead to fuse disconnection and malfunction, and other wiring damages.
- Do not install extra lamps or LED to the vehicle. If supplementary lights are installed, it may lead to lamp malfunction and flickering of the lights. In addition, the fuse box and other writing may be damaged.

Lamp part malfunction due to network failure

The headlamp, taillight, and fog light may lit up when the head lamp switch is turned ON, and not light up when the taillight or for light switch is turned ON. This may be cause by network failure or vehicle electrical control system malfunction. If there is a problem, have the system serviced by a professional workshop. Kia recommends to visit an authorized Kia dealer/service partner.

Lamp part malfunction due to electrical control system stabilization

A normally functioning lamp may flicker momentarily. This momentary occurrence is due to stabilization unction of the vehicle's electrical on control system. If the lamp soon returns to normal, the vehicle does not require service.

However, if the lamp goes out after the momentary flickering, or the flickering continues, have the system serviced by a professional workshop. Kia recommends to visit an authorized Kia dealer/service partner.

* NOTICE

 If the light bulb or lamp connector is removed from an operating lamp activated by electricity, the fuse box's electronic device may scan it as a malfunction. Therefore, a lamp malfunction history may be recorded in Diagnostic Trouble Code (DTC) in the fuse box.

 It is normal for an operating lamp may blink temporarily. Since this occurrence is due stabilization function of the vehicle's electronic control device, if the lamp lights up normally after temporary blinking, there is no problem in the vehicle. However, if the lamp continues to blink several times or turn off completely, there may be an error in the vehicle's electronic control device. In this case, have the vehicle checked by a professional workshop immediately. Kia recommends to visit an authorized Kia dealer/service partner.

* NOTICE

After an accident or after the headlight assembly is reinstalled, have the headlight aiming adjusted by a professional workshop. Kia recommends to visit an authorized Kia dealer/service partner.

* NOTICE

Traffic Change (For Europe)

The low beam light distribution is asymmetric. If you go abroad to a country with opposite traffic direction, this asymmetric part will dazzle oncoming car driver. To prevent dazzle, ECE regulation demand several technical solutions (ex. automatic change system, adhesive sheet, down aiming). This headlamps are designed not to dazzle opposite drivers. So, you need not change your headlamps in a country with opposite traffic direction.

* NOTICE

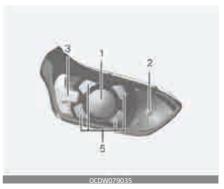
After driving in heavy rain or washing, headlamp and taillamp lenses could appear frosty. This condition is caused by the temperature difference between the lamp inside and outside. This is similar to the condensation on your windows inside your vehicle during the rain and doesn't indicate a problem with your vehicle. If the water leaks into the lamp bulb circuitry, have the vehicle checked by a professional workshop. Kia recommends to visit an authorized Kia dealer/service partner.

Light bulb position (Front)

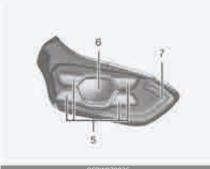
Head lamp - 5 Door, Wagon, Shooting brake (type A)



Head lamp - 5 Door, Wagon, Shooting brake (type B)



Head lamp - 5 Door, Wagon, Shooting brake (type C)



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DRL Lamp - 5 Door, Wagon



Front fog and cornering lamp - 5 Door, Wagon



Front fog lamp - 5 Door, Wagon, Shooting brake (GT-line)



Front fog and cornering lamp - CUV



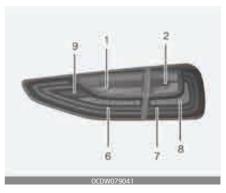
- 1. Headlamp (Low) (Bulb type)
- 2. Headlamp (High) (Bulb type)
- 3. Front turn signal lamp (Bulb type)
- 4. Position lamp (Bulb type)
- 5. Day time running lamp / Position lamp (LED type)
- 6. Headlamp (Low/High) (LED type)
- 7. Front turn signal lamp (LED type)
- 8. Day time running lamp (Bulb type)
- 9. Front fog lamp & cornering lamp (Bulb type)
- 10. Front fog lamp (Bulb type)

Light bulb position (Rear)

Rear combination lamp - 5 Door (type A)



Rear combination lamp - 5 Door (type B)



Rear combination lamp - Wagon (type A)

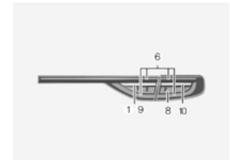


Maintenance

Light bulbs

Rear combination lamp - Wagon (type B)

Rear combination lamp - Shooting brake



OCE078101 Rear combination lamp - CUV

Back up lamp – wagon

Rear fog lamp - CUV







License plate lamp



High mounted stop lamp - 5 Door, Wagon, CUV



High mounted stop lamp - Shooting brake



- 1. Back up lamp (Bulb/LED type) (5 Door, Wagon, CUV: Bulb, Shooting brake (passenger's side): LED)
- 2. Rear turn signal lamp (Bulb type)
- 3. Tail lamp (Bulb type)
- 4. Stop and tail lamp (Bulb type)
- 5. Rear fog lamp (Bulb type)
- 6. Tail lamp (LED type)
- 7. Stop and tail lamp (LED type)
- 8. Stop lamp (LED type)
- 9. Rear fog lamp (LED type) (Shooting brake and CUV: driver's side lamp)
- 10. Rear turn signal lamp (LED type)
- 11. License plate lamp (Bulb type)
- 12. High mounted stop lamp (LED type)

Light bulb position (Side)

Type A



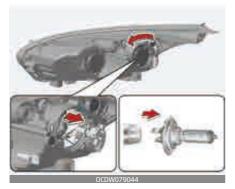
1. Side repeater lamp (LED type)

Type B



2. Side repeater lamp (bulb type)

Headlamp (Low beam) bulb replacement - Head lamp for 5 Door, Wagon, Shooting brake (type A, B) (if equipped)



- 1. Open the hood.
- 2. Remove the headlamp bulb cover by turning it counterclockwise.
- 3. Remove the bulb-socket from the headlamp assembly by turning the bulb-socket counterclockwise until the tabs on the bulb-socket align with the slots on the headlamp assembly.

- 4. Remove the bulb from bulbsocket by pulling it out.
- 5. Insert a new bulb by inserting it into the bulb-socket.
- 6. Install the bulb-socket in the headlamp assembly by aligning the tabs on the bulb-socket with the slots in the headlamp assembly.

Push the bulb-socket into the headlamp assembly and turn the bulb-socket clockwise.

7. Install the headlamp bulb cover by turning it clockwise.

Headlamp bulb



WARNING Halogen bulbs

- Halogen bulbs contain pressurized gas that will produce flying pieces of glass if broken.
- Always handle them carefully, and avoid scratches and abrasions.
 If the bulbs are lit, avoid contact with liquids. Never touch the glass with bare hands. Residual oil may

cause the bulb to overheat and burst when lit.

A bulb should be operated only when installed in a headlight.

- If a bulb becomes damaged or cracked, replace it immediately and carefully dispose of it.
- Wear eye protection when changing a bulb. Allow the bulb to cool down before handling it.

Headlamp (High beam) bulb replacement - Head lamp for 5 Door, Wagon, Shooting brake (type A, B) (if equipped)



- 1. Open the hood.
- 2. Remove the headlamp bulb cover by turning it counterclockwise.
- 3. Remove the bulb-socket from the headlamp assembly by turning the bulb-socket counterclockwise until the tabs on the bulb-socket align with the slots on the headlamp assembly.
- 4. Remove the bulb from bulbsocket by pulling it out.

- 5. Insert a new bulb by inserting it into the bulb-socket.
- 6. Install the bulb-socket in the headlamp assembly by aligning the tabs on the bulb-socket with the slots in the headlamp assembly.

Push the bulb-socket into the headlamp assembly and turn the bulb-socket clockwise.

7. Install the headlamp bulb cover by turning it clockwise.

Headlamp bulb



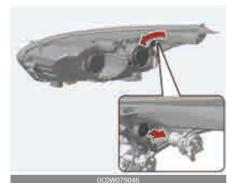
Halogen bulbs

- Halogen bulbs contain pressurized gas that will produce flying pieces of glass if broken.
- Always handle them carefully, and avoid scratches and abrasions.
 If the bulbs are lit, avoid contact with liquids. Never touch the glass with bare hands. Residual oil may cause the bulb to overheat and burst when lit.

A bulb should be operated only when installed in a headlight.

- If a bulb becomes damaged or cracked, replace it immediately and carefully dispose of it.
- Wear eye protection when changing a bulb. Allow the bulb to cool down before handling it.

Front turn signal lamp (Bulb type) bulb replacement - Head lamp for 5 Door, Wagon, Shooting brake (type A, B)



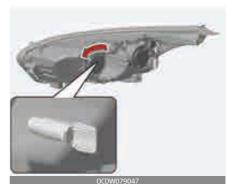
- 1. Open the hood.
- 2. Remove the bulb-socket from the headlamp assembly by turning the bulb-socket counterclockwise until the tabs on the bulb-socket align with the slots on the headlamp assembly.
- 3. Remove the bulb from the bulbsocket by pressing it in and rotating it counterclockwise until the tabs on the bulb align with the slots in the bulb-socket.

Pull the bulb out of the bulbsocket.

- 4. Insert a new bulb by inserting it into the bulb-socket and rotating it until it locks into place.
- 5. Install the socket in the headlamp assembly by aligning the tabs on the bulb-socket with the slots in the assembly.

Push the bulb-socket into the headlamp assembly and turn the socket clockwise.

Position lamp (Bulb type) bulb replacement - Head lamp for 5 Door, Wagon, Shooting brake (type A)



- 1. Open the hood.
- 2. Remove the headlamp bulb cover by turning it counterclockwise.
- Remove the bulb-socket from the headlamp assembly by pulling it out.
- Remove the bulb from bulbsocket by pulling it out.
- 5. Insert a new bulb by inserting it into the bulb-socket.

- 6. Install the bulb-socket in the headlamp assembly.
- 7. Install the headlamp bulb cover by turning it clockwise.

Position lamp / Day time running lamp (LED type) replacement -Head lamp for 5 Door, Wagon, Shooting brake (type B)



If the position lamp + DRL (LED) (1) does not operate, have your vehicle checked by a professional workshop.

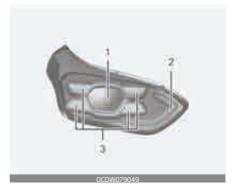
Kia recommends to visit an authorized Kia dealer/service partner.

The LED lamp cannot be replaced as a single unit because it is an integrated unit. The LED lamp has to be replaced with the unit.

A skilled technician should check or repair the position lamp + DRL (LED), for it may damage related parts of the vehicle.

Headlamp (LED type) replacement - Head lamp for 5 Door, Wagon, Shooting brake (type C), CUV

Head lamp - 5 Door, Wagon, Shooting brake (type C)



Head lamp - CUV



OCDW079073

If the Low/High beam lamp(1), Front turn signal lamp(2), Day time running lamp/Position lamp(3) does not operate, have your vehicle checked by a professional workshop.

Kia recommends to visit an authorized Kia dealer/service partner.

Maintenance

The LED lamp cannot be replaced as a single unit because it is an integrated unit.

The LED lamp has to be replaced with the unit. A skilled technician should check or repair the head lamp (LED), for it may damage related parts of the vehicle.

DRL Lamp (Bulb type) bulb replacement - 5 Door, Wagon



If the DRL Lamp (Bulb type) (1) does not operate, have your vehicle checked by a professional workshop. Kia recommends to visit an authorized Kia dealer/service partner.

Front fog lamp bulb replacement

5 Door, Wagon



5 Door, Wagon, Shooting brake (GT Line)



CUV



If the front fog lamp (1) does not operate, have your vehicle checked by a professional workshop. Kia recommends to visit an authorized Kia dealer/service partner.

Side repeater lamp (LED type) bulb replacement



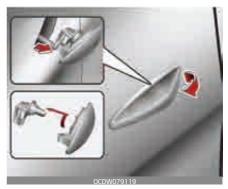
If the side repeater lamp (LED), does not operate, have your vehicle checked by a professional workshop.

Kia recommends to visit an authorized Kia dealer/service partner.

The LED lamp cannot be replaced as a single unit because it is an integrated unit. The LED lamp has to be replaced with the unit.

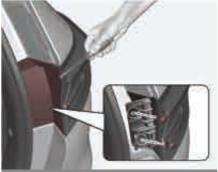
A skilled technician should check or repair the side repeater lamp (LED), for it may damage related parts of the vehicle.

Side repeater lamp (Bulb type) bulb replacement



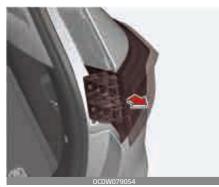
- 1. Remove the lamp assembly from the vehicle by prying the lens and pulling the assembly out.
- 2. Disconnect the bulb electrical connector.
- 3. Separate the socket and the lens parts by turning the socket counterclockwise until the tabs on the socket align with the slots on the lens part.
- 4. Remove the bulb by pulling it straight out.
- 5. Insert a new bulb in the socket.
- 6. Reassemble the socket and the lens part.
- 7. Connect the bulb electrical connector.
- 8. Reinstall the lamp assembly to the body of the vehicle.

Rear turn signal lamp (Bulb type) bulb replacement - Rear combination lamp for 5 Door (type A, B), Wagon (type A)



OCDW079053

- 1. Open the tailgate.
- 2. Open the service cover.
- 3. Loosen the light assembly retaining screws with a cross-tip screw driver.

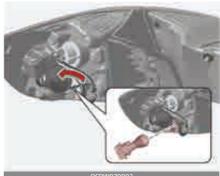


- 4. Remove the rear combination lamp assembly from the body of the vehicle.
- 5. Disconnect the rear combination lamp connector.

Rear combination lamp - 5 Door (type A, B)



Rear combination lamp - Wagon (type A)





- 6. Remove the socket from the assembly by turning the socket counterclockwise until the tabs on the socket align with the slots on the assembly.
- 7. Remove the bulb from the socket by pressing it in and rotating it counterclockwise until the tabs on the bulb align with the slots in the socket.

Pull the bulb out of the socket.

- 8. Insert a new bulb by inserting it into the socket and rotating it until it locks into place.
- Install the socket in the assembly by aligning the tabs on the socket with the slots in the assembly.
 Push the socket into the assembly and turn the socket clockwise.
- 10. Install the rear combination lamp assembly to the body of the vehicle.
- 11. Install the service cover.

Rear turn signal lamp (LED)

Rear combination lamp - Wagon (type B)





Rear combination lamp - CUV

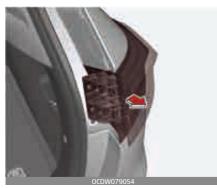


If the rear turn signal lamp (1) does not operate, have your vehicle checked by a professional workshop. Kia recommends to visit an authorized Kia dealer/service partner.

Stop and tail lamp (Bulb type) bulb replacement - Rear combination lamp for 5 Door (type A), Wagon (type A)

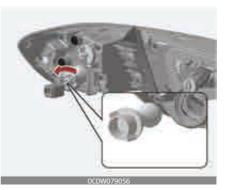


- 1. Open the tailgate.
- 2. Open the service cover.
- 3. Loosen the light assembly retaining screws with a cross-tip screw driver.

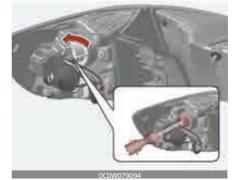


- 4. Remove the rear combination lamp assembly from the body of the vehicle.
- 5. Disconnect the rear combination lamp connector.





Type C



- 6. Remove the socket from the assembly by turning the socket counterclockwise until the tabs on the socket align with the slots on the assembly.
- 7. Remove the bulb from the socket by pressing it in and rotating it counterclockwise until the tabs on the bulb align with the slots in the socket.

Pull the bulb out of the socket.

8. Insert a new bulb by inserting it into the socket and rotating it until it locks into place.

- 9. Install the socket in the assemblu by aligning the tabs on the socket with the slots in the assembly. Push the socket into the assemblu and turn the socket clockwise.
- 10. Install the rear combination lamp assembly to the body of the vehicle.
- 11. Install the service cover.

Back up lamp (Bulb type) bulb replacement - Rear combination lamp for 5 Door (type A, B)



- 1. Open the tailgate.
- 2. Open the service cover.



- 3. Remove the socket from the assembly by turning the socket counterclockwise until the tabs on the socket align with the slots on the assembly.
- 4. Remove the bulb from bulbsocket by pulling it out.
- 5. Insert a new bulb by inserting it into the bulb-socket.
- 6. Install the socket in the assembly by aligning the tabs on the socket with the slots in the assembly. Push the socket into the assemblu and turn the socket clockwise.
- 7. Install the service cover by putting it into the service hole.

Back up lamp (Bulb type) bulb replacement - Rear combination lamp for wagon (type A, B), CUV

Rear combination lamp for Wagon (tupe A, B)



Rear combination lamp for Wagon, CUV



If the rear Back up lamp (1) does not operate, have your vehicle checked by a professional workshop. Kia recommends to visit an authorized Kia dealer/service partner.

Back up lamp (LED type) bulb replacement - Rear combination lamp for shooting brake



If the rear back up lamp (LED) (1) does not operate, have your vehicle checked by a professional workshop. Kia recommends to visit an authorized Kia dealer/service partner. The LED lamp cannot be replaced as a single unit because it is an integrated unit. The LED lamp has to be replaced with the unit.

A skilled technician should check or repair the rear fog lamp (LED), for it may damage related parts of the vehicle

Tail lamp (inside) (Bulb type) bulb replacement - Rear combination lamp for 5 Door (type A), Wagon (type A)



1. Open the tailgate.

2. Open the service cover.

Rear combination lamp - 5 Door (type A)



CDW079059

Rear combination lamp - Wagon (type A)



- 3. Remove the socket from the assembly by turning the socket counterclockwise until the tabs on the socket align with the slots on the assembly.
- 4. Remove the bulb from bulbsocket by pulling it out.
- 5. Insert a new bulb by inserting it into the bulb-socket.
- Install the socket in the assembly by aligning the tabs on the socket with the slots in the assembly.
 Push the socket into the assembly and turn the socket clockwise.
- 7. Install the service cover by putting it into the service hole.

Rear fog lamp (bulb type) bulb replacement - Rear combination lamp for 5 Door (type A), Wagon (type A, B)



- 1. Open the tailgate.
- 2. Open the service cover.

Rear combination lamp - 5 Door (type A)



OCDW079060

Rear combination lamp - Wagon (type A)



Rear combination lamp - Wagon (type R)





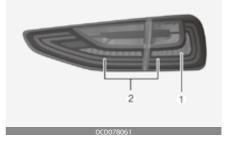
- 3. Remove the socket from the assembly by turning the socket counterclockwise until the tabs on the socket align with the slots on the assemblu.
- 4. Remove the bulb from bulbsocket by pulling it out.
- 5. Insert a new bulb by inserting it into the bulb-socket.
- 6. Install the socket in the assembly by aligning the tabs on the socket with the slots in the assembly.

Push the socket into the assembly and turn the socket clockwise.

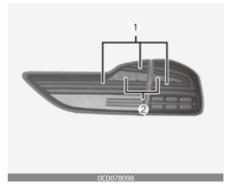
7. Install the service cover by putting it into the service hole.

Stop and tail lamp (LED type) bulb replacement - Rear combination lamp for 5 Door (type B), Wagon (type B), Shooting brake, CUV

Rear combination lamp - 5 Door (type B)



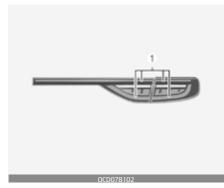
Rear combination lamp - Wagon (type B)



Rear combination lamp - CUV



Rear combination lamp - Shooting brake



If the stop and tail lamp (LED) (1,2) does not operate, have your vehicle checked by a professional workshop.

Kia recommends to visit an authorized Kia dealer/service partner.

The LED lamp cannot be replaced as a single unit because it is an integrated unit. The LED lamp has to be replaced with the unit.

A skilled technician should check or repair the stop and tail lamp (LED),

for it may damage related parts of the vehicle.

Rear turn signal lamp (LED type) bulb replacement - Rear combination lamp for wagon (type B), CUV

Rear combination lamp - Wagon (type B)



Rear combination lamp - CUV



Rear fog lamp (LED type) bulb replacement - Rear combination lamp for 5 Door (type B), shooting brake

Rear combination lamp – 5 Door (type B)



Rear combination lamp - Shooting brake



Rear fog lamp - CUV



If the rear fog lamp (LED) (1) does not operate, have your vehicle checked by a professional workshop.

Kia recommends to visit an authorized Kia dealer/service partner.

The LED lamp cannot be replaced as a single unit because it is an integrated unit. The LED lamp has to be replaced with the unit.

A skilled technician should check or repair the rear fog lamp (LED), for it may damage related parts of the vehicle.

High mounted stop lamp (LED type) bulb replacement

5 Door, Wagon, CUV



Shooting brake



If the high mounted stop lamp (LED) (1) does not operate, have your vehicle checked by a professional workshop.

Kia recommends to visit an authorized Kia dealer/service partner.

The LED lamp cannot be replaced as a single unit because it is an integrated unit. The LED lamp has to be replaced with the unit. A skilled technician should check or repair the high mounted stop lamp (LED), for it may damage related parts of the vehicle.

License plate lamp bulb replacement

5 Door, Shooting brake



OCDW079064

Wagon, CUV

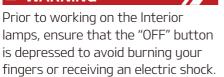


- 1. Remove the lamp assembly by using a screwdriver.
- 2. Remove the socket from the assembly by turning the socket counterclockwise until the tabs on the socket align with the slots on the assembly.

- 3. Remove the bulb from bulbsocket by pulling it out.
- 4. Insert a new bulb by inserting it into the bulb-socket.
- Install the socket in the assembly by aligning the tabs on the socket with the slots in the assembly.
 Push the socket into the assembly and turn the socket clockwise.
- 6. Install the lamp assembly to the lamp housing.

Map lamp (Bulb type) bulb replacement





- 1. Using a flat-blade screwdriver, gently pry the lens cover from lamp housing.
- 2. Remove the bulb by pulling it straight out.
- 3. Install a new bulb in the socket.

4. Align the lens cover tabs with the lamp housing notches and snap the lens into place.

A CAUTION

Be careful not to dirty or damage the lens, lens tab, and plastic housings.

Map lamp (LED type) bulb replacement



If the map lamp (LED) (1), does not operate, have your vehicle checked by a professional workshop.

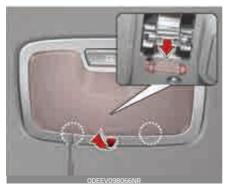
Kia recommends to visit an authorized Kia dealer/service partner.

The LED lamp cannot be replaced as a single unit because it is an integrated unit. The LED lamp has to be replaced with the unit.

A skilled technician should check or repair the map lamp (LED), for it

may damage related parts of the vehicle.

Room lamp (Bulb type) bulb replacement



A WARNING



Prior to working on the Interior lamps, ensure that the "OFF" button is depressed to avoid burning your fingers or receiving an electric shock.

- 1. Using a flat-blade screwdriver, gently pry the lens cover from lamp housing.
- 2. Remove the bulb by pulling it straight out.
- 3. Install a new bulb in the socket.
- 4. Align the lens cover tabs with the lamp housing notches and snap the lens into place.

A CAUTION

Be careful not to dirty or damage the lens, lens tab, and plastic housings.

Personal lamp (LED type) bulb replacement (if equipped)



If the personal lamp (LED) (1) does not operate, have your vehicle checked by a professional workshop.

Kia recommends to visit an authorized Kia dealer/service partner.

The LED lamp cannot be replaced as a single unit because it is an integrated unit. The LED lamp has to be replaced with the unit.

A skilled technician should check or repair the personal lamp (LED), for it may damage related parts of the vehicle.

8

Vanitu mirror lamp bulb replacement



WARNING

Prior to working on the Interior lamps, ensure that the "OFF" button is depressed to avoid burning your fingers or receiving an electric shock.

- 1. Using a flat-blade screwdriver, gently pry the lamp assembly from interior.
- 2. Remove the bulb by pulling it straight out.
- 3. Install a new bulb in the socket.
- 4. Install the lamp assembly to interior.

A CAUTION



Be careful not to dirty or damage the lens, lens tab, and plastic housings.

Glove box lamp replacement



- 1. Using a flat-blade screwdriver, gently pry the lamp assembly from interior.
- 2. Remove the cover from the lamp assembly.
- 3. Remove the bulb by pulling it straight out.
- 4. Install a new bulb in the socket.
- 5. Install the cover to the lamp assembly.
- 6. Install the lamp assembly to interior.

▲ CAUTION

Be careful not to dirty or damage the lens, lens tab, and plastic housings.



Luggage lamp bulb replacement



- 1. Using a flat-blade screwdriver, gently pry the lamp assembly from interior.
- 2. Remove the cover from the lamp assembly.
- 3. Remove the bulb by pulling it straight out.
- 4. Install a new bulb in the socket.
- 5. Install the cover to the lamp assembly.
- 6. Install the lamp assembly to interior.

A CAUTION

Be careful not to dirty or damage the lens, lens tab, and plastic housings.

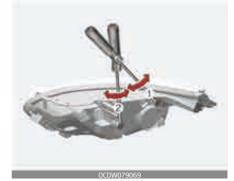
Headlamp and front fog lamp aiming (for Europe)

Headlamp aiming

Halogen (5 Door, Wagon, Shooting brake)



LED (5 Door, Wagon, Shooting brake)



LED (CUV)



- 1. Inflate the tires to the specified pressure and remove any loads from the vehicle except the driver, spare tire, and tools.
- 2. The vehicle should be placed on a flat floor.
- 3. Draw vertical lines (Vertical lines passing through respective head lamp centers) and a horizontal line (Horizontal line passing through center of head lamps) on the screen.
- 4. With the head lamp and battery in normal condition, aim the head lamps so the brightest portion falls on the horizontal and vertical lines.
- 5. To aim the low and high beams left or right, turn the driver (1) clockwise or counterclockwise. To aim the low and high beams up or down, turn the driver (2) clockwise or counterclockwise.

Front fog lamp aiming

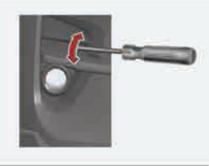
5 Door, Wagon



5 Door, Wagon, Shooting brake (GT-Line)



CUV

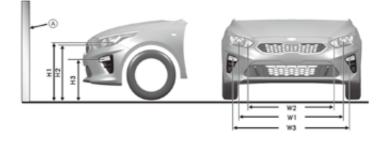


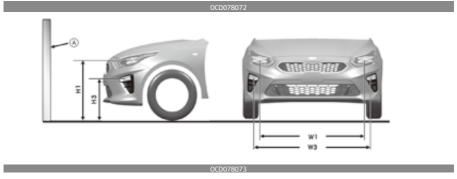
Maintenance

- The front fog lamp can be aimed as the same manner of the head lamps aiming.
- With the front fog lamps and battery normal condition, aim the front fog lamps.
- To aim the front fog lamp up or down, turn the driver clockwise or counterclockwise.

Aiming point

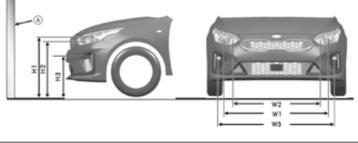
5 Door, Wagon (standard model)



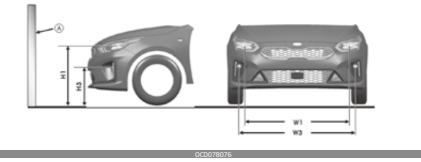


* A: Screen



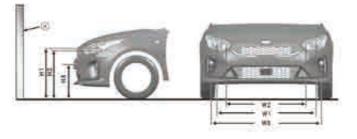


OCD078074

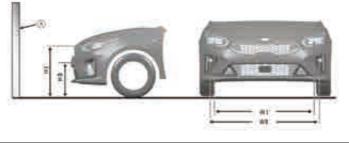


* A: Screen

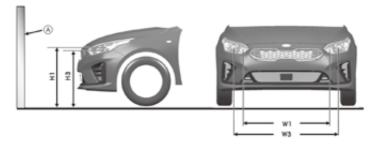
Shooting brake (GT-Line model)



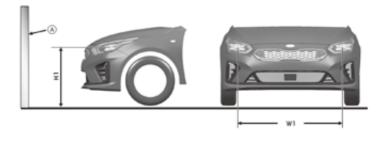
OCDW079127



5 Door (GT model)

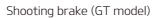


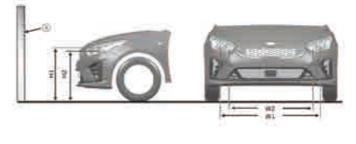
OCD078076

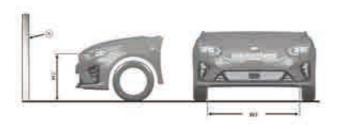


* A: Screen









OCDW079130 CUV (16/18 inch tire)



5 Door (standard model)

	He	ead lamp (F	lalogen typ	Head lamp (LED type)		
	Ground Height Dis		Distance Ian		Ground Height	Distance between lamps
Vehicle condition	Low beam	High beam	Low beam	High beam	Low/High beam	Low/High beam
	H1	H2	W1	W2	H1'	W1'
Without driver [mm (in)]	706 (27.8)	684 (26.9)	1,344 (52.9)	1,112 (43.8)	712 (28)	1,354 (53.3)
With driver [mm (in)]	700 (27.6)	678 (26.7)	1,344 (52.9)	1,112 (43.8)	706 (27.8)	1,354 (53.3)

	Front Fog lamp (Bulb type)				
Vehicle condition	Ground Height	Distance between lamps			
	H3	W3			
Without driver [mm (in)]	490 (19.3)	1,494 (58.8)			
With driver [mm (in)]	486 (19.1)	1,494 (58.8)			

5 Door, Wagon (GT-Line model)

	He	ead lamp (F	lalogen typ	e)	Head lamp (LED type)	
Vehicle condition	Ground Height		Distance between lamps		Ground Height	Distance between lamps
	Low High	Low beam	High beam	Low/High beam	Low/High beam	
	H1	H2	W1	W2	H1'	W1'
Without driver [mm (in)]	706 (27.8)	684 (26.9)	1,344 (52.9)	1,112 (43.8)	712 (28)	1,354 (53.3)
With driver [mm (in)]	700 (27.6)	678 (26.7)	1,344 (52.9)	1,112 (43.8)	706 (27.8)	1,354 (53.3)

	Front Fog lamp (Bulb type)				
Vehicle condition	Ground Height	Distance between lamps			
	H3	W3			
Without driver [mm (in)]	455 (17.9)	1,478 (58.2)			

	Front Fog lamp (Bulb type)				
Vehicle condition	Ground Height	Distance between lamps			
	H3	W3			
With driver [mm (in)]	449 (17.7)	1,478 (58.2)			

Shooting brake (GT-Line model)

	Front Fog lamp (Bulb type)				
Vehicle condition	Ground Height	Distance between lamps			
	H3	W3			
Without driver [mm (in)]	450 (17.7)	1.478 (58.2)			
With driver [mm (in)]	444 (17.5)	1.478 (58.2)			

5 Door (GT model)

	He	ead lamp (H	lalogen typ	Head lamp (LED type)		
	Ground Height		Distance between lamps		Ground Height	Distance between lamps
Vehicle condition	Low beam	High beam	Low beam	High beam	Low/High beam	Low/High beam
	H1	H2	W1	W2	H1'	W1'
Without driver [mm (in)]	703 (27.7)	681 (26.8)	1,344 (52.9)	1,112 (43.8)	709 (27.9)	1,354 (53.3)
With driver [mm (in)]	697 (27.4)	675 (26.6)	1,344 (52.9)	1,112 (43.8)	703 (27.7)	1,354 (53.3)

Shooting brake (GT model)

	He	ead lamp (H	Halogen typ	Head lamp (LED type)		
	Ground Height		Distance between lamps		Ground Height	Distance between lamps
Vehicle condition	Low beam	High beam	Low beam	High beam	Low/High beam	Low/High beam
	H1	H2	W1	W2	H1'	W1'
Without driver [mm (in)]	697 (27.4)	675 (26.6)	1,344 (52.9)	1,112 (43.8)	704 (27.7)	1,354 (53.3)

	He	ead lamp (F	lalogen typ	Head lamp (LED type)		
	Ground	Ind Height Distance betwee lamps			Ground Height	Distance between lamps
Vehicle condition	Low beam	High beam	Low beam	High beam	Low/High beam	Low/High beam
	H1	H2	W1	W2	H1'	W1'
With driver [mm (in)]	691 (27.2)	669 (26.3)	1,344 (52.9)	1,112 (43.8)	698 (27.5)	1,354 (53.3)

CUV (16 in tire)

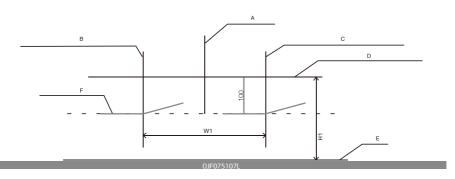
	Head lamp	(LED type)	Front Fog lamp (Bulb type)		
Vehicle condition	Ground Height Distance betweer lamps		Ground Height	Distance between lamps	
	Low/High beam	Low/High beam	CLI	WD	
	H1	W1	H3	W3	
Without driver [mm (in)]	743 (29.3)	1,339 (52.7)	423 (16.7)	1,547 (60.9)	
With driver [mm (in)]	737 (29.0)	1,339 (52.7)	429 (16.9)	1,547 (60.9)	

CUV (18 in tire)

	Head lamp	(LED type)	Front Fog lamp (Bulb type)		
Vehicle condition	Ground Height	Distance between lamps	Ground Height	Distance between lamps	
	Low/High beam	Low/High beam	H3	W3	
	H1	W1	E E E	۷۷۵	
Without driver [mm (in)]	754 (29.7)	1,339 (52.7)	435 (17.1)	1,547 (60.9)	
With driver [mm (in)]	/48(294) 1339(5)/)		429 (16.9)	1,547 (60.9)	

Head lamp low beam (LHD Vehicle)

Based on 10m screen



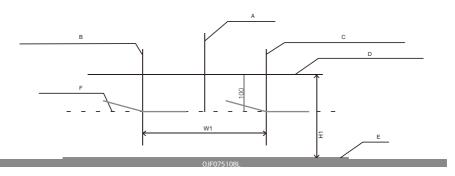
A: Vehicle axis

B: Vertical line of the left head lamp bulb center

- C: Vertical line of the right head lamp bulb center
- D: Horizontal line of head lamp bulb center
- E: Ground
- F: Cut-Off line
- 1. Turn the low beam on without driver aboard.
- 2. The cut-off line should be projected in the cut-off line shown in the picture.
- 3. When aiming the low beam, vertical aiming should be adjusted after adjusting the horizontal aiming.
- 4. If head lamp leveling device is equipped, adjust the head lamp leveling device switch with 0 positions.

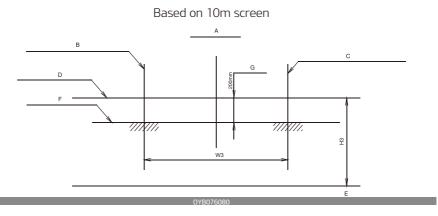
Head lamp low beam (RHD Vehicle)

Based on 10m screen



- A: Vehicle axis
- B: Vertical line of the left head lamp bulb center
- C: Vertical line of the right head lamp bulb center
- D: Horizontal line of head lamp bulb center
- E: Ground
- F: Cut-Off line
- 1. Turn the low beam on without driver aboard.
- 2. The cut-off line should be projected in the cut-off line shown in the picture.
- 3. When aiming the low beam, vertical aiming should be adjusted after adjusting the horizontal aiming.
- 4. If head lamp leveling device is equipped, adjust the head lamp leveling device switch with 0 positions.

Front fog lamp



- A: Vehicle axis
- B: Vertical line of the left fog lamp bulb center
- C: Vertical line of the right fog lamp bulb center
- D: Horizontal line of fog lamp bulb center
- E: Ground
- F: Cut-Off line
- G: Upper limit
- 1. Turn the front fog lamp on without the driver aboard.
- 2. The cut-off line should be projected in the allowable range (shaded region).

Appearance care

Exterior care

Exterior general caution

It is very important to follow the label directions when using any chemical cleaner or polish. Read all warning and caution statements that appear on the label.

Finish maintenance

Washing

To help protect your vehicle's finish from rust and deterioration, wash it thoroughly and frequently at least once a month with lukewarm or cold water.

If you use your vehicle for off-road driving, you should wash it after each off-road trip. Pay special attention to the removal of any accumulation of salt, dirt, mud, and other foreign materials. Make sure the drain holes in the lower edges of the doors and rocker panels are kept clear and clean. Insects, tar, tree sap, bird droppings, industrial pollution and similar deposits can damage your vehicle's finish if not removed immediately.

Even prompt washing with plain water may not completely remove all these deposits. A mild soap, safe for use on painted surfaces, may be used. After washing, rinse the vehicle thoroughly with lukewarm or cold water. Do not allow soap to dry on the finish.

A CAUTION

- Do not use strong soap, chemical detergents or hot water, and do not wash the vehicle in direct sunlight or when the body of the vehicle is warm.
- Be careful when washing the side windows of your vehicle.
 Especially, with high-pressure water, water may leak through the windows and wet the interior.
- To prevent damage to the plastic parts and lamps, do not clean with chemical solvents or strong detergents.

A WARNING

Wet brakes

After washing the vehicle, test the brakes while driving slowly to see if they have been affected by water. If braking performance is impaired, dry the brakes by applying them lightly while maintaining a slow forward speed.

High-pressure washing

• When using high-pressure washers, make sure to maintain sufficient distance from the vehicle. Insufficient clearance or excessive pressure can lead to component damage or water penetration.

- Do not spray the camera, sensors or its surrounding area directly with a high pressure washer.
 Shock applied from high pressure water may cause the device to not operate normally.
- Do not bring the nozzle tip close to boots (rubber or plastic covers) or connectors as they may be damaged if they come into contact with high pressure water.



A CAUTION

- Water washing in the engine compartment including high pressure water washing may cause the failure of electrical circuits located in the engine compartment.
- Never allow water or other liquids to come in contact with electrical/ electronic components inside the vehicle as this may damage them.

Waxing

Wax the vehicle when water will no longer bead on the paint.

Always wash and dry the vehicle before waxing. Use a good quality liquid or paste wax, and follow the manufacturer's instructions. Wax all metal trim to protect it and to maintain its luster.

Removing oil, tar, and similar materials with a spot remover will usually strip the wax from the finish. Be sure to re-wax these areas even if the rest of the vehicle does not yet need waxing. Do not apply wax on embossed unpainted unit, as it may tarnish the unit.

- Wiping dust or dirt off the body 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

Deep scratches or stone chips in the painted surface must be repaired

promptly. Exposed metal will quickly rust and may develop into a major repair expense.

* NOTICE

If your vehicle is damaged and requires any metal repair or replacement, be sure the body shop applies anti-corrosion materials to the parts repaired or replaced.

Bright-metal maintenance

- To remove road tar and insects, use a tar remover, not a scraper or other sharp object.
- To protect the surfaces of brightmetal parts from corrosion, apply a coating of wax or chrome preservative and rub to a high luster.
- During winter weather or in coastal areas, cover the bright metal parts with a heavier coating of wax or preservative. If necessary, coat the parts with non-corrosive petroleum jelly or other protective compound.

Underbody maintenance

Corrosive materials used for ice and snow removal and dust control may collect on the underbody. If these materials are not removed, accelerated rusting can occur on underbody parts such as the fuel lines, frame, floor pan and exhaust system, even though they have been treated with rust protection.

Thoroughly flush the vehicle underbody and wheel openings with lukewarm or cold water once a month, after off-road driving and at the end of each winter. Pay special attention to these areas because it is difficult to see all the mud and dirt. It will do more harm than good to wet down the road grime without removing it. The lower edges of the doors, rocker panels, and frame members have drain holes that should not clog with dirt; trapped water in these areas can cause rusting.

A WARNING

After washing the vehicle, test the brakes while driving slowly to see if they have been affected by water. If braking performance is impaired, dry the brakes by applying them lightly while maintaining a slow forward speed.

Aluminum wheel maintenance

The aluminum wheels are coated with a clear protective finish.

 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 has cooled.
- Use only a mild soap or neutral detergent, and rinse thoroughly with water. Also, be sure to clean the wheels after driving on salted roads. This helps prevent corrosion.
- Avoid washing the wheels with high-speed car wash brushes.
- Do not use any alkaline or acid detergent. It may damage and corrode the 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, we produce vehicles of the highest quality. However, this is only part of the job. To achieve the longterm corrosion resistance your vehicle can deliver, the owner's cooperation and assistance is also required.

Common causes of corrosion

The most common causes of corrosion on your vehicle are:

• Road salt, dirt and moisture that is allowed to accumulate underneath the vehicle.

 Removal of paint or protective coatings by stones, gravel, abrasion or minor scrapes and dents which leave unprotected metal exposed to corrosion.

High-corrosion areas

If you live in an area where your vehicle is regularly exposed to corrosive materials, corrosion protection is particularly important. Some of the common causes of accelerated corrosion are road salts, dust control chemicals, ocean air and industrial pollution.

Moisture breeds corrosion

Moisture creates the conditions in which corrosion is most likely to occur. For example, corrosion is accelerated by high humidity, particularly when temperatures are just above freezing. In such conditions, the corrosive material is kept in contact with the vehicle's surface by moisture that evaporate 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 promote corrosion. High temperatures can also accelerate corrosion of parts that are not properly ventilated so the moisture can be dispersed.

For all these reasons, it is particularly important to keep your vehicle clean and free of mud or accumulations of other materials. This applies not only to the visible surfaces but particularly to the underside of the vehicle.

To help prevent corrosion

You can help prevent corrosion from getting started by observing the following:

Keep your vehicle clean

The best way to prevent corrosion is to keep your vehicle clean and free of corrosive materials. Attention to the underside of the vehicle is particularly important.

- If you live in a high-corrosion area

 where road salts are used, near
 the ocean, areas with industrial
 pollution, acid rain, etc. —, you
 should take extra care to prevent
 corrosion. In winter, hose off the
 underside of your vehicle at least
 once a month and be sure to clean
 the underside thoroughly when
 winter is over.
- When cleaning underneath the vehicle, give particular attention to the components under the fenders and other areas that are hidden from view. Do a thorough job; just dampening the accumulated mud rather than washing it away will accelerate

corrosion rather than prevent it. Water under high pressure and steam are particularly effective in removing accumulated mud and corrosive materials.

 When cleaning lower door panels, rocker panels and frame members, be sure that drain holes are kept open so that moisture can escape and not be trapped inside to accelerate corrosion.

Keep your garage dry

Don't park your vehicle in a damp, poorly ventilated garage. This creates a favorable environment for corrosion. This is particularly true if you wash your vehicle in the garage or drive it into the garage when it is still wet or covered with snow, ice or mud. Even a heated garage can contribute to corrosion unless it is well ventilated so moisture is dispersed.

Keep paint and trim in good condition

Scratches or chips in the finish should be covered with "touch-up" paint as soon as possible to reduce the possibility of corrosion. If bare metal is showing through, the attention of a qualified body and paint shop is recommended.

Bird droppings: Bird droppings are highly corrosive and may damage

painted surfaces in just a few hours. Always remove bird droppings as soon as possible.

Don't neglect the interior

Moisture can collect under the floor mats and carpeting and cause corrosion. Check under the mats periodically to be sure the carpeting is dry. Use particular care if you carry fertilizers, cleaning materials or chemicals in the vehicle.

These should be carried only in proper containers and any spills or leaks should be cleaned up, flushed with clean water and thoroughly dried.

Interior care

Interior general precautions

Prevent chemicals such as perfume, cosmetic oil, sun cream, hand cleaner, and air freshener from contacting the interior parts because they may cause damage or discoloration. If they do contact the interior parts, wipe them off immediately. If necessary, use a vinyle cleaner, see instructions for correct usage.

A CAUTION

Never allow water or other liquids to come in contact with electrical/

electronic components inside the vehicle as this may damage them.

A CAUTION

When cleaning leather products (steering wheel, seats etc.), use neutral detergents or low alcohol content solutions. If you use high alcohol content solutions or acid/ alkaline detergents, the color of the leather may fade or the surface may get stripped off.

Taking care of leather seats

- Vacuum the seat periodically to remove dust and sand on the seat. It will prevent abrasion or damage of the leather and maintain its quality.
- Wipe the natural leather seat cover often with dry or soft cloth.
- Sufficient use of a leather protective may prevent abrasion of the cover and helps maintain the color. Be sure to read the instructions and consult a specialist when using leather coating or protective agents.
- Leather with bright colors(beige, cream beige) is easily contaminated and clear in appearance. Clean the seats frequently.
- Avoid wiping with wet cloth. It may cause the surface to crack.

Cleaning the leather seats

- Remove all contaminations instantly. Refer to instructions below for removal of each contaminant.
- Cosmetic products(sunscreen, foundation, etc.)
 - Apply cleansing cream on a cloth and wipe the contaminated point. Wipe off the cream with a wet cloth and remove water with a dry cloth.
- Beverages(coffee, soft drink, etc.)
 - Apply a small amount of neutral detergent and wipe until contaminations do not smear.
- Oil
 - Remove oil instantly with absorbable cloth and wipe with stain remover for natural leather only.
- Chewing gum
 - Harden the gum with ice and remove gradually.

Fabric seat cover using precautions (if equipped)

Please clean the fabric seats regularly with a vacuum cleaner in consideration of fabric material characteristics. If they are heavily soiled with beverage stains, etc., use a suitable interior cleaner. To prevent damage to seat covers, wipe off the seat covers down to the seams with a large wiping motion and moderate pressure using a soft sponge or microfiber cloth.

Velcro closures on clothing or sharp objects may cause snagging or scratches on the surface of the seats. Make sure not to rub such objects against the surface.

Cleaning the upholstery and interior trim

Vinyl

Remove dust and loose dirt from vinyl with a whisk broom or vacuum cleaner. Clean vinyl surfaces with a vinyl cleaner.

Fabric

Remove dust and loose dirt from fabric with a whisk broom or vacuum cleaner. Clean with a mild soap solution recommended for upholstery or carpets. Remove fresh spots immediately with a fabric spot cleaner. If fresh spots do not receive immediate attention, the fabric can be stained and its color can be affected. Also, its fire-resistant properties can be reduced if the material is not properly maintained.

A CAUTION

Using anything but recommended cleaners and procedures may affect the fabric's appearance and fireresistant properties.

Cleaning the lap/shoulder belt webbing

Clean the belt webbing with any mild soap solution recommended for cleaning upholstery or carpet. Follow the instructions provided with the soap. Do not bleach or re-dye the webbing because this may weaken it.

Cleaning the interior window glass

If the interior glass surfaces of the vehicle become fogged (that is, covered with an oily, greasy or waxy film), they should be cleaned with a glass cleaner. Follow the directions on the glass cleaner container.

A CAUTION

Do not scrape or scratch the inside of the rear window. This may result in damage of the rear window defroster grid.

Emission control system (if equipped)

The emission control system of your vehicle is covered by a written limited warranty. Please see the warranty information contained in the Warranty & Maintenance book in your vehicle.

Your vehicle is equipped with an emission control system to meet all applicable emission regulations.

There are three emission control systems, as follows.

- 1. Crankcase emission control system
- 2. Evaporative emission control system
- 3. Exhaust emission control system

In order to assure the proper function of the emission control systems, have your vehicle inspected and maintained by a professional workshop in accordance with the maintenance schedule in this manual. Kia recommends to visit an authorized Kia dealer/service partner.

Caution for the Inspection and Maintenance Test (With Electronic Stability Control (ESC) system)

 To prevent the vehicle from misfiring during dynamometer testing, turn the Electronic Stability Control (ESC) system off by pressing the ESC switch.

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• After dynamometer testing is completed, turn the ESC system back on by pressing the ESC switch again.

1. Crankcase emission control system

The positive crankcase ventilation system is employed to prevent air pollution caused by blow-by gases being emitted from the crankcase. This system supplies fresh filtered air to the crankcase through the air intake hose. Inside the crankcase, the fresh air mixes with blow-by gases, which then pass through the PCV valve into the induction system.

2. Evaporative emission control system

The Evaporative Emission Control System is designed to prevent fuel vapors from escaping into the atmosphere.

Canister

Fuel vapors generated inside the fuel tank are absorbed and stored in the onboard canister. When the engine is running, the fuel vapors absorbed in the canister are drawn into the surge tank through the purge control solenoid valve.

Purge Control Solenoid Valve (PCSV)

The purge control solenoid valve is controlled by the Engine Control Module (ECM); when the engine coolant temperature is low during idling, the PCSV closes so that evaporated fuel is not taken into the engine. After the engine warms up during ordinary driving, the PCSV opens to introduce evaporated fuel to the engine.

3. Exhaust emission control system

The Exhaust Emission Control System is a highly effective system which controls exhaust emissions while maintaining good vehicle performance.

Engine exhaust gas precautions (carbon monoxide)

 Carbon monoxide can be present with other exhaust fumes. Therefore, if you smell exhaust fumes of any kind inside your vehicle, have it inspected and repaired immediately. If you ever suspect exhaust fumes are coming into your vehicle, drive it only with all the windows fully open. Have your vehicle checked and repaired immediately.

A WARNING

Exhaust

Engine exhaust gases contain carbon monoxide (CO). Though colorless and odorless, it is dangerous and could be lethal if inhaled. Follow the instructions on this page to avoid CO poisoning.

- Do not operate the engine in confined or closed areas (such as garages) any more than what is necessary to move the vehicle in or out of the area.
- When the vehicle is stopped in an open area for more than a short time with the engine running, adjust the ventilation system (as needed) to draw outside air into the vehicle.
- Never sit in a parked or stopped vehicle for any extended time with the engine running.
- When the engine stalls or fails to start, excessive attempts to restart the engine may cause damage to the emission control system.

Operating precautions for catalytic converters (if equipped)

WARNING

Fire

- A hot exhaust system can ignite flammable items under your vehicle. Do not park the vehicle over or near flammable objects, such as grass, vegetation, paper, leaves, etc.
- The exhaust system and catalytic system are very hot while the engine is running or immediately after the engine is turned off. Keep away from the exhaust system and catalytic, you may get burned.

Also, do not remove the heat sink around the exhaust system, do not seal the bottom of the vehicle or do not coat the vehicle for corrosion control. It may present a fire risk under certain conditions.

Your vehicle is equipped with a catalytic converter emission control device.

Therefore, the following precautions must be observed:

- Make sure to refuel your vehicle according to the "Fuel requirements" suggested in chapter 1.
- Do not operate the vehicle when there are signs of engine malfunction, such as misfire or a noticeable loss of performance.
- Do not misuse or abuse the engine. Examples of misuse are coasting with the ignition off and descending steep grades in gear with the ignition off.
- Do not operate the engine at high idle speed for extended periods (5 minutes or more).
- Do not modify or tamper with any part of the engine or emission control system. All inspections and adjustments must be made by a professional workshop. Kia recommends to visit an authorized Kia dealer/service center.
- 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. Additionally, such actions could void your warranties.

Gasoline Particulate Filter (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 illuminate. To re-operate the GPF system, the vehicle should be driven for more than 30 minutes at a speed of 80 km/h and faster. Ensure the following conditions are met: safe road conditions, transmission 3 or above, and engine speed of 1,500-4,000 rpm. Driving at 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 the warning message "check

exhaust system" pops up even after driving at recommended speed and for recommended hours, visit a professional workshop and have them check the GPF system. Constant driving with the GPF warning light on can damage the GPF system and undermine fuel economy.

Diesel Particulate Filter (if equipped)

The Diesel Particulate Filter (DPF) system removes the soot in the exhaust gas.

Unlike a disposable air filter, the DPF system automatically burns (oxidizes) and removes the accumulated soot according to the driving condition. In other words, the active burning by engine control system and high exhaust gas temperature caused by normal/ high driving condition burns and removes the accumulated soot. However, if the vehicle continues to be driven at repeated short distance or driven at low speed for a long time, the accumulated soot may not be automatically removed because of low exhaust gas temperature. More than a certain amount of soot deposited, the malfunction indicator light (=:::3) illuminates.

When the malfunction indicator light blinks, it may stop blinking by driving the vehicle at more than 60 km/h (37 mph) or at more than second gear with 1500 ~ 2500 engine rpm for a certain time (for about 25 minutes).

If the malfunction indicator light (=:::) continues to be blinked or the warning massage "Check exhaust system" illuminates in spite of the procedure, visit a professional workshop and check the DPF system. Kia recommends to visit an authorized Kia dealer/service partner. If you continue to drive with the malfunction indicator light blinking for a long time, the DPF system can be damaged and fuel consumption can be worsen and engine durability can be worsen by oil dilution.

▲ CAUTION

Diesel Fuel (if equipped with DPF)

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

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

Lean NOx Trap

The Lean NOx Trap (LNT) system removes the nitrogen oxide in the

exhaust gas. The smell can occur in the exhaust gas depending on the quality of the fuel and it can degrade NOx reduction performance, please use the regulated automotive diesel fuel.

Selective Catalytic Reduction (if equipped)

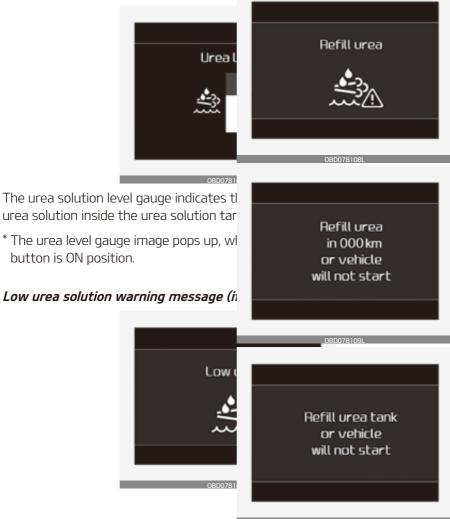
The Selective Catalytic Reduction (SCR) system is to catalytically convert NOx to Nitrogen and Water by using the reduction agent, the urea solution.

WARNING

- It may be a criminal offence to use a vehicle that does not consume any urea solution.
- Use of, and refilling of, a required urea solution of the correct specifications is mandatory for the vehicle to comply with the certificate of conformity issued for that vehicle type.

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Urea solution level gauge (if equipped)



The lack warning messages of urea solution appear below urea solution approximately 3.6 L. When the warning message "Low Urea" is displayed with SCR warning lamp (), the urea solution tank needs to be refilled. If not refilled for a considerable mileage, visual warning system will escalate the intensity by displaying the message "Refill Urea" with SCR warning lamp (). In this case, the urea solution tank soon needs to be refilled. The remaining urea solution in the urea

remaining urea solution in the urea solution tank approaches to too low level the warning message "Refill Urea in 000km or vehicle will not start" with SCR warning lamp (). "xxx km(mile)" represents the remaining travel distance allowed, so do not continue driving to the limit of the remaining travel distance without refilling.

Otherwise, the vehicle can't be restarted once the engine is turned off by the ENGINE START/STOP button. Based on the driving pattern, environmental condition and road profile, the deducted remaining mileage may differ from the actual travel distance. When "Low Urea" or "Refill Urea" message is displayed, a sufficient amount of urea solution must be added. When "Refill Urea in 000 km or vehicle will not start" message is displayed, refill a sufficient amount of urea solution.

When "Refill Urea tank or vehicle will not start" message is displayed with SCR warning lamp (), the vehicle can't be restarted once the engine is turned off by the ENGINE START/STOP button. For the above cases, full replenishment is always recommended.

Malfunction with the SCR system (if equipped)

vehicle inspected by a professional workshop. Kia recommends to

	contact an authorised Kia dealer					
	Upon detecting a mainunction r	Driving 50 km after detecting a malfunction				
Urea solution system failure (= no urea solution injection)	Urea system failure	Service Urea system in 000km or vehicle will not start				
Incorrect urea solution detected (= abnormal urea solution)	OBD078112L	Refill with correct urea in 000km or vehicle will not start 080078115L				
Abnormal urea-solution consumption (= post treatment failure)	Check Urea system	Service Urea system in 000km or vehicle will not start 080078114L				

SCR system has malfunction due to disconnected electrical components, incorrect urea solution and so on.

"xxx km (mile)" represents the remaining travel distance allowed, so do not continue driving to the limit of the remaining travel distance without fixing the source of the malfunction. Otherwise, the vehicle can't be restarted once the engine is turned off by the ENGINE START/ STOP button. In this case, have your

Clearing the vehicle-restarting restriction (if equipped)

No re	estart
Low urea solution level	Refill urea tank or vehicle will not start OBD078110L
Urea solution system failure (= no urea solution injection)	Service Lirea system in Okm or vehicle will not start OBD078117L
Incorrect urea solution detected (= abnormal urea solution)	Refill with correct urea in 0km or vehicle will not start 080078118L
Abnormal urea-solution consumption (= post treatment failure)	Service Urea system in Okm or vehicle will not start OBD078117L

Emission control system

Once the inducement sustem reached to final status and disabled the vehicle restart, it will only be deactivated in case the urea solution tank is replenished or the malfunctions have been rectified. If the vehicle can't be restarted with "Refill Urea tank or vehicle will not start" message, refill a sufficient amount of urea solution, wait for minutes and try vehicle starting again. If vehicle starting is not possible regardless of urea solution level, have your vehicle inspected by a professional workshop. Kia recommends to contact an authorised Kia dealer/service partner.

Adding urea solution

To refill urea solution with a refill hose



1. Press the ENGINE START/STOP button to the OFF position.

- 2. Turn the urea solution tank cap in a counterclockwise direction to open it.
- 3. Fully insert the refill hose to add the ISO 22241-specified urea solution. Fill in a sufficient amount of urea solution.
 - * Pay great caution not to add the urea solution into the fuel tank. If not, it surely applies adverse impact on the vehicle performance, causing various malfunctions.
 - * Never use urea solution mixture with additives or water. It may allow foreign substances to enter the urea solution tank. If so, it surely applies adverse impact on the vehicle performance, causing various malfunctions.
 - * Use only the ISO 22241-specified urea solution. Any unauthorised urea solution surely applies adverse impacts on the vehicle performance, causing various malfunctions.
- 4. Turn the urea solution tank cap in a clockwise direction to securely close it.

To refill urea solution with a refill bottle

- 1. Press the ENGINE START/STOP button to the OFF position.
- 2. Turn the urea solution tank cap in a counterclockwise direction to open it.

- 3. Add the ISO 22241-specified urea solution. Fill in a sufficient amount of urea solution.
 - * Pay the great caution not to add the urea solution into the fuel tank. If not, it surely applies adverse impact on the vehicle performance, ca using various malfunctions.
 - * Pay great caution not to overfill the (completely) filled urea solution tank by force whilst refilling urea solution from a refill bottle. An over-filled urea solution tank will be expanded when it becomes frozen and this can cause a serious malfunction of the urea solution tank or urea solution system.
 - * Never use urea solution mixture with additives or water. It may allow foreign substances to enter the urea solution tank. If so, it surely applies adverse impact on the vehicle performance, causing various malfunctions.
 - * Use only the ISO 22241-specified urea solution. Any unauthorised urea solution surely applies adverse impacts on the vehicle performance, causing various malfunctions.
- 4. Turn the urea solution tank cap in a clockwise direction to securely close it.

Adding urea solution: Every approximately 5,600 km (The urea

solution consumption is dependent on the road profile, driving pattern and environmental condition)

* It takes some time to update the cluster gauges after the urea solution injection.

- Do not apply any external impact on the DPF system. It may damage the catalyst, which is equipped inside the DPF system.
- Do not arbitrarily modify or manipulate the DPF system by redirecting or lengthen the exhaust pipe. It may adversely impact the DPF system.
- Avoid contact with drained water from the exhaust pipe. The water is slightly acid and harmful to skin. If contacted, thoroughly wash it.
- Any arbitrary manipulation or modification of the DPF system may cause a system malfunction. The DPF system is controlled by a complex electronic control unit.
- Wait for the DPF system to cool down before the maintenance service, as it is hot due to heat generation. Otherwise, it may cause a skin burn.
- Add only the specified urea solution, when your vehicle is equipped with the urea solution system.
- The urea solution system (i.e. urea solution nozzle, urea solution

pump, and DCU) operates for approximately 2 minutes more to eliminate the remaining urea solution inside, even after the ENGINE START/STOP button is pressed to the OFF position. Before the maintenance service, make sure that the urea solution system is completely turned OFF.

- A urea solution of poor quality or any unauthorized liquids may damage the vehicle components, including the DPF system. Any unverified additives in the urea solution may clog the SCR catalyst and cause other malfunctions, which require the expensive DPF system to be replaced.
- When urea solution comes in contact with the eyes or the skin, you should thoroughly wash the contaminated skin area.
- When you swallow urea solution, thoroughly rinse your mouth and drink a lot of fresh water. Then, immediately consult a doctor.
- When your cloth is contaminated with urea solution, immediately change your cloth.
- When you have an allergic reaction to urea solution, immediately consult a doctor.
- Make sure that urea solution is kept out of reach from children.
- Wipe off any urea solution spillage with water or cloth. When urea solution is crystalized, wipe it off with a sponge or a cloth, which

was dampened in cold water. When urea solution spillage is exposed in air for an extended period of time, it is crystalized in white, damaging the vehicle surface.

- Urea solution is not a fuel additive. Thus, it should not be injected to the fuel tank. Otherwise, it may damage the engine.
- Urea solution is an aqueous solution, which is inflammable, nontoxic, colourless and odourless.
- Store the urea solution tank only in well-ventilated locations. When urea solution is exposed to the hot temperature at approximately 50°C for an extended period of time (i.e. under direct sunlight), the chemical decomposition may occur, emitting ammonia vapour.

Storing urea solution (if equipped)

- It is improper to store urea solution in containers made of unsuitable materials like aluminum, copper alloy, nonalloyed still and galvanized steel. The urea solution dissolves metal materials, severely damaging the exhaust purification system to be non-repairable.
- Store urea solution only in containers made of the following materials.
 - DIN EN 10 088-1-/-2-/-3specified CR-Ni steel, Mo-Cr-

Ni steel, Polypropylene and Polyethylene

Urea solution purity

- The following situations may damage the DPF system.
 - Fuels or any unauthorised liquids are added into the urea solution tank.
 - Additives are mixed with urea solution.
 - Water is added to dilute the urea solution.
- Use only the ISO 22241- or DIN70070-specified urea solution. When any unauthorised urea solution is added to the urea solution tank, have your vehicle inspected by a professional workshop. Kia recommends to contact an authorised Kia dealer/ service partner.
- When any unauthorised impurities enter the urea solution tank, it may lead to the following problems.
 - Increased emission
 - Malfunction with the DPF system
 - Engine failure

Never add any used urea solution, which is drained from the urea solution tank (i.e. whilst maintaining the vehicle). Its purity cannot be guaranteed. Always add new urea solution. Specification for of the oth tandard sol urea or solution SC

Liquid such as diesel, petrol and alcohol shall never be used for SCR system. Any fluid other than recommended urea solution (conform to ISO22241 or DIN70070) can damage SCR system hardware and deteriorate vehicle emission.

WARNING

- When opening the urea solution tank cap at high outside temperatures, ammonia vapours may escape. Ammonia vapours have a pungent smell and primarily cause irritation of the:
 – Skin
 - Mucous membranes
 - Eyes

You may experience a burning sensation in your eyes, nose and throat, as well as coughing and watering of the eyes. Do not inhale ammonia vapours. Do not allow urea solution to come in direct contact with your skin. It is hazardous to your health. Wash any affected areas off with plenty of clean water. If necessary, consult a doctor.

- When handling with urea solution in closed space, ensure good ventilation. When the bottle of urea solution container is opened, pungent smelling fumes may escape.
- Keep urea solution out of reach of children.

- When urea solution overflows the vehicle surface, wash out the surface with clean water to prevent any corrosion.
- When replenishing, be careful lest the urea solution should overflow.
- In case the vehicle was parked at very low ambient temperature (below -11 degree Celcius) for a long time, the urea solution will be frozen in the urea solution tank. With frozen urea solution. the urea solution tank level mau not be detected correctly until the urea solution will be defrosted by activated heater. Incorrect urea solution or diluted urea solution can increase the freezing point, and thus defrosting may not be properly done by the heater which is activated below certain temperatures. This phenomenon may cause malfunction of the SCR sustem which can lead to the prohibition of engine restarting.
- The time to defrost the urea solution varies in accordance with driving conditions and outside temperatures.

A CAUTION

 If defective urea solution or unrecommended liquid is supplied, damage on car parts such as emission reduction devices can be caused. If defective fuel is added, foreign objects will be accumulated to SCR catalyst and cause it to get clogged and break. After adding incorrect urea solution, please visit the nearby authorized Kia dealer/service partner as early as possible.

 Liquid that are not recommended such as diesel, petrol, and alcohol shall never be used other than the recommended urea solution that satisfy ISO22241 or DIN70070.

Specifications, Consumer informa- 9 tion and Reporting safety defects

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SPECIFICATIONS, CONSUMER INFORMATION AND REPORTING SAFETY DEFECTS

Engine

ltem	Gasoline 1.0 T-GDI	Gasoline 1.4 T-GDI	Gasoline 1.4 MPI	Gasoline 1.6 T-GDI	Gasoline 1.6 MPI	Smart stream D 1.6
Displacement [cc (cu.in)]	998 (60.90)	1,353 (82.57)	1,368 (83.48)	1,591 (97.08)	1,591 (97.08)	1,598 (97.51)
Bore x Stroke [mm (in)]	71 x 84 (2.79 x 3.3)	71.6 x 84 (2.82 x 3.31)	72 x 84 (2.83 x 3.31)	77 x 85.44 (3.03 x 3.36)	77 x 85.44 (3.03 x 3.36)	77 x 85.8 (3.03 x 3.37)
Firing order	1-2-3	1-3-4-2	1-3-4-2	1-3-4-2	1-3-4-2	1-3-4-2
No. of cylinders	3, In-line	4, In-line	4, In-line	4, In-line	4, In-line	4, In-line

Dimensions

5 Door

	Item	mm (in)		
Overall length		4,310 (169.7)		
Overall width		1,800 (70.9)		
Overall height		1,447 (57.0)		
	195/65R15	1,573 (61.9)		
Front tread	205/55R16	1,565 (61.6)		
FI OFIL LI Edu	225/45R17	1,559 (61.3)		
	225/40R18	1,555 (61.2)		
	195/65R15	1,581 (62.2)		
Deertreed	205/55R16	1,573 (61.9)		
Rear tread	225/45R17	1,567 (61.7)		
	225/40R18	1,563 (61.5)		
Wheelbase		2,650 (104.3)		

Wagon

	Item	mm (in)		
Overall length		4,600 (181.1)		
Overall width		1,800 (70.9)		
Overall height		1,465 (57.7)		
	195/65R15	1,573 (61.9)		
Front tread	205/55R16	1,565 (61.6)		
Front tread	225/45R17	1,559 (61.3)		
	225/40R18	1,555 (61.2)		
	195/65R15	1,581 (62.2)		
Desertaria	205/55R16	1,573 (61.9)		
Rear tread	225/45R17	1,567 (61.7)		
	225/40R18	1,563 (61.5)		
Wheelbase		2,650 (104.3)		

Shooting brake

	Item	mm (in)		
Overall length		4,605 (181.3)		
Overall width		1,800 (70.9)		
Overall height		1,422 (56.0)		
	195/65R15	1,573 (61.9)		
Frend to and	205/55R16	1,565 (61.6)		
Front tread	225/45R17	1,559 (61.3)		
	225/40R18	1,555 (61.2)		
	195/65R15	1,581 (62.2)		
Deserves	205/55R16	1,573 (61.9)		
Rear tread	225/45R17	1,567 (61.7)		
	225/40R18	1,563 (61.5)		
Wheelbase		2,650 (104.3)		

CUV

	Item	mm (in)		
Overall length		4,395 (173.0)		
Overall width		1,826 (71.9)		
Overall height		16″: 1,478 (58.2) 18″: 1,490 (58.7)		
Frend two of	205/60R16	1,585 (62.4)		
Front tread	235/45R18	1,575 (62.0)		
Deentweed	205/60R16	1,583 (62.3)		
Rear tread	235/45R18	1,573 (61.9)		
Wheelbase		2,650 (104.3)		

Bulb wattage

	Light Bu	ılb		Wattage (W)	Bulb Type
			Standard	H7 LL	55W
		Low	Option *	LED	60W
	Headlamp	Link	Standard	H7 LL	55W
Front		High	Option *	LED	24.5W
Front	Daytime running light *			P21W or LED	21W or LED
	Position lamp *			W5W or LED	55W or LED
	Turn signal lamp			PY21W or LED	21W or LED
	Front fog lamp *			H8 LL	35W
	Taillamn		Inside	W5W or LED	5W or LED
	Tail lamp		Outside	P21/5W or LED	5W or LED
			Inside	LED	LED
	Stop lamp		Outside	P21/5W or LED	21W or LED
			5 Door	PY21W	21W
	Turn signal lamp		Wagon	P21W or LED	21W or LED
			Shooting brake	LED	LED
Rear	Back up lamp		W16W or LED	16W or LED	
		5 Door		H21W or LED	21W or LED
	Rear fog light *		Wagon	H21W	21W
			Shooting brake	LED	LED
		5 Door		LED	1.8W
	High mounted stop lam	р	Wagon	LED	LED
			Shooting brake	LED	LED
	License plate lamp			W5W	5W X 2EA
	Map lamps *		W10W or LED	10W X 2EA or LED	
	Room lamp			FESTOON or LED	10W or LED
Interior	Luggage lamp			FESTOON	10W
	Glove box LAMP			FESTOON	8W
	Vanity mirror lamps *		FESTOON	5W	

*: if equipped

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Tires and wheels (5 Door, Wagon, Shooting brake)

				a .d	6-	d		Inflat	tion press	ure [psi (kPa)]	
Item Tire size	Wheel size		Load Capacity		eed acity	Norma	Normal load*1		um load	High-speed driving		
			LI*2	kg	SS*3	km/h	Front	Rear	Front	Rear	Front	Rear
	195/	6.0J X	91	615	Н	210	2.2 (32, 220)	2.2 (32, 220)	2.35 (34, 235)	2.5 (36, 250)	2.75 (40, 275)	2.75 (40, 275)
65R15	15	91	615	Η	210	2.35 (34, 235)	2.35 (34, 235)	2.35 (34, 235)	2.5 (36, 250)	2.75*4 (40, 275)	2.75* ⁵ (40, 275)	
Full size tire 225/ 45R17 225/ 40ZR18		6.5J X 16	91	615	V	240	2.2 (32, 220)	2.2 (32, 220)	2.35 (34, 235)	2.75 (40, 275)	2.75 (40, 275)	2.75 (40, 275)
		7.0J X 17	91	615	W	270	2.2 (32, 220)	2.2 (32, 220)	2.35 (34, 235)	2.75 (40, 275)	2.75 (40, 275)	2.75 (40, 275)
		7.5J X 18	92	630	Y	300	2.4 (35, 240)	2.4 (35, 240)	2.5 (36, 250)	2.75 (40, 275)	2.75 (40, 275)	2.75 (40, 275)
Com- pact	T125/ 80D15	4.0T X 15	95	690	М							
		4.0T X 16	97	730	М	130		4.2 (60, 420) -				

*1. Normal load - Up to 3 persons

*2. Load Index

*3. Speed Symbol

*4. In order to drive at high speed(over 100mph or 160km/h) where the speed is legal, adjust tire pressure as shown in above table

*5. Except Russia

Tires and wheels (CUV)

				əd	5-	ood		Inflat	ion press	sure [psi (kPa)]	
Item Tire size	Tire size	Wheel size	Capa				Normal load*1		Maximum load		High-speed driving	
			LI*2	kg	SS*3	km/h	Front	Rear	Front	Rear	Front	Rear
Full	205/ 60R16	6.5J X 16	92	630	Н	210	2.5 (36, 250)	2.5 (36, 250)	2.5 (36, 250)	2.7 (39, 270)	2.5 (36, 250)	2.7 (39, 270)
size tire	235/ 45R18	7.5J X 18	94	670	V	240	2.3 (33, 230)	2.3 (33, 230)	2.5 (36, 250)	2.7 (39, 270)	2.5 (36, 250)	2.7 (39, 270)
Com- pact Spare tire	T125/ 80D16	4.0T X 16	97	730	М	130	4.2 (60, 420) -				-	

- *1. Normal load Up to 3 persons
- *2. Load Index
- *3. Speed Symbol

* NOTICE

- We recommend that when replacing tires, use the same size originally supplied with the vehicles. If not, that affects driving performance.
- When driving in high altitude grades, it is natural for the atmospheric pressure to decrease. Therefore, please check the tire pressure and add more air when necessary. Additionally required tire air

pressure per km above sea level: 1.5psi/km

A CAUTION

When replacing tires, use the same size originally supplied with the vehicle.

Using tires of a different size can damage the related parts or make it work irregularly.

Weight/volume

5 Door

ltem		Gasoline	1.0 T-GDI	Gas	oline 1.4 T-	Gasoline 1.4MPI				
		6N	ЛT	61	ЛT	7DCT	6MT			
Gross vehicle weight kg (lbs.)		Fuel economy package	Standard package	Fuel economy package	Standard package	Standard package	Fuel economy package	Standard package		
		1,750 (3,858)	1,800 (3,968)	1,770 (3,902)	1,820 (4,012)	1,850 (4,079)	1,720 (3,792)	1,760 (3,880)		
Luggage volume l (cu ft)	MIN		395 (13.9)							
	MAX				1,291 (45.6))				

ltom		Gasoline	e 1.6MPI	Gasoline	1.6 T-GDI	Smar	t stream D	1.6	
ltem		6MT	6AT	6MT	7DCT	6M ⁻	Г	7DCT	
Gross vehicle weight kg (lbs.)		Standard package	Standard package	Standard package	Standard package	Fuel economy package	Standard package	Standard package	
weight kg	(IDS.)	1,780 (3,924)							
Luggage	MIN				395 (13.	9)			
volume l (cu ft)	MAX				1,291 (45	5.6)			

Wagon

مبرما		Gasoline	1.0 T-GDI	Gas	soline 1.4 T-	GDI	Gasoline 1.4MPI						
Item		61	ЛT	61	ЛТ	7DCT	6MT						
Gross vehic		Fuel economy package	Standard package	Fuel economy package	Standard package	Standard package	Fuel economy package	Standard package					
weight kg (IDS.)	1,790 (3,946)	1,840 (4,056)	1,800 (3,968)	1,850 (4,079)	1,880 (4,145)	1,750 (3,858)	1,800 (3,968)					
Luggage	MIN		625 (22.1)										
volume I (cu ft)	MAX				1,694 (59.8))							

Specifications, Consumer information and Reporting safety defects

ltor		Gasoline	e 1.6MPI	Smart stream D 1.6							
Item		6MT	6AT	ΛT	7DCT						
Gross vehicle wei	ght	Standard package	Standard package	Fuel economy package	Standard package	Standard package					
kg (lbs.)		1,820 (4,012)	1,920 (4,233)	1,940 (4,277)							
Luggage volume	MIN			625 (22.1)							
l (cu ft) MA				1,694 (59.8)							

Shooting brake

ltem		Gasoline 1.0 T-GDI	Gasoline	1.4 T-GDI	Gasoline	1.6 T-GDI	Smart str	eam D 1.6
		6MT	6MT 6MT 7DCT 6MT 7DCT		6MT	7DCT		
Gross vehic weight kg (1,820 (4,012)	1,840 (4,056)	1,870 (4,123)	1,870 (4,123)	1,900 (4,189)	1,900 (4,189)	1,920 (4,233)
Luggage	iggage MIN				594 (21.0)			
volume l (cu ft) MAX					1,545 (54.6))		

CUV

ltem		Gasoline 1.0 T-GDI	Gasoline	1.4 T-GDI	Gasoline	1.6 T-GDI	Smart stream D 1.6				
		6MT	6MT 6MT 7DCT 6MT 7DCT		7DCT	6MT	7DCT				
Gross vehic weight kg (1,820 (4,012)	1,840 (4,056)	1,860 (4,100)	1,840 (4,056)	1,870 (4,123)	1,900 (4,189)	1,920 (4,233)			
Luggage	MIN				426 (15.0)						
volume l (cu ft) MAX					1,378 (48.7))					

Air conditioning system

ITEM	Weight of volume	Classification
Defrimerent	F00 + 2F=	R-1234yf
Refrigerant	500 ± 25g	R-134a
Compressor lubricant	110 ± 10g	PAG 30

Please contact a professional workshop for more details.

Kia recommends to contact an authorized Kia dealer/service partner.

Recommended lubricants and capacities

To help achieve proper engine and powertrain performance and durability, use only lubricants of the proper quality.

The correct lubricants also help promote engine efficiency that results in improved fuel economy.

These lubricants and fluids are recommended for use in your vehicle.

	Lubricant		Volume	Classification
				ACEA A5/B5
		1.0 T-GDI	3.6 I (3.8 US qt.)	API SN, ACEA C2*3
				ACEA A5/B5
		1.4 T-GDI	4.2 I (4.4 US qt.)	API SN, ACEA C2
Engine oil ^{*1*2} (drain and refill) Recommends	Gasoline Engine	1.4 MPI	3.6 I (3.8 US qt.)	API service SM, ILSAC GF4 or above, ACEA A5/B5 ^{*4}
				ACEA A5/B5
QUARTZ		1.6 MPI	3.6 I (3.8 US qt.)	API Latest (ILSAC Latest)
		1.6 T-GDI	4.5 I (4.7 US qt.)	ACEA A5/B5
	Diesel Engine	Smart stream D 1.6	4.4 I (4.6 US qt.)	ACEA C5 or C2 or C3
		1.0 T-GDI	1.6 ~ 1.7 l (1.7 ~ 1.8 US qt.)	
		1.4 T-GDI	1.5 ~ 1.6 l (1.6 ~ 1.7 US qt.)	
Manual	Gasoline Engine	1.4 MPI	1.6 ~ 1.7 l (1.7 ~ 1.8 US qt.)	API Service GL-4 SAE 70W - HK SYN MTF 70W
transmission fluid		1.6 MPI	1.6 ~ 1.7 l (1.7 ~ 1.8 US qt.)	- SPIRAX S6 GHME 70W MTF - GS MTF HD 70W
		1.6 T-GDI	1.5 ~ 1.6 l (1.6 ~ 1.7 US qt.)	
	Diesel Engine	1.6L	1.5 ~ 1.6 l (1.6 ~ 1.7 US qt.)	
	Gasoline	1.4 T-GDI		API Service GL-4 SAE 70W
Dual clutch	Engine	1.6 T-GDI	1.9 ~ 2.0 l	- HK SYN DCTF 70W - SPIRAX S6 GHME 70W
transmission fluid	Diesel Engine	1.6 L	(2.0 ~ 2.1 US qt.)	- SPIRAX S6 GHIME 70W DCTF - GS DCTF HD 70W
Automatic transmission fluid	Gasoline Engine	1.6 MPI	6.7 I (7.1 US qt.)	MICHANG ATF SP-IV, SK ATF SP-IV, NOCA ATF SP- IV, KIA genuine ATF SP-IV

	Lubricant			Volume	Classification
		1.0 T-GDI	MT	5.5 I (5.8 US qt.)	
		1.4 T-GDI	MT		
		1.4 T-GDI	DCT	6.1 I (6.4 US qt.)	
	Gasoline	1.4 MPI	MT	5.5 I (5.8 US qt.)	
	Engine	1.6 MPI	MT	5.5 I (5.8 US qt.)	Mixture of antifreeze and water (Ethulene-glucol
Coolant			AT	5.4 I (5.7 US qt.)	with phosphate based
		1.6 T-GDI	MT		coolant for cooling device)
		1.6 1-601	DCT	5.8 I (6.1 US qt.)	
	Diesel	Smart	MT		
	Engine	stream D 1.6	DCT	7.8 I (8.2 US qt.)	
Brake / clutch fluid				Required amount	DOT-4
Urea solution				12 I (12.7 US qt.)	ISO22241 DIN70070
Fuel				50 I (13.2 US gal.)	-

*1. Refer to the "Recommended SAE viscosity number" on page 9-13.

*3. EXCEPT INDIA, MIDDLE EAST, IRAN, LIBIA, ALGERIA, SUDAN, MOROCCO, TUNISIA, EGYPT, CENTRAL& SOUTH AMERICA

*4. FOR INDIA, MIDDLE EAST, IRAN, LIBIA, ALGERIA, SUDAN, MOROCCO, TUNISIA, EGYPT, CENTRAL&SOUTH AMERICA

^{*2.} Engine oils labeled Energy Conserving Oil are now available. Along with other additional benefits, they contribute to fuel economy by reducing the amount of fuel necessary to overcome engine friction. Often, these improvements are difficult to measure in everyday driving, but in a year's time, they can offer significant cost and energy savings.

Recommended SAE viscositu number

▲ CAUTION



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

Engine oil viscosity (thickness) has an effect on fuel economy and cold weather operating (engine start and engine oil flowability). Lower viscosity engine oils can provide better fuel economy and cold weather performance, however, higher viscosity engine oils are required for satisfactory lubrication in hot weather.

Using oils of any viscosity other than those recommended could result in engine damage.

When choosing an oil, consider the range of temperature your vehicle will be operated in before the next oil change. Proceed to select the recommended oil viscosity from the chart.

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Diesel 1.6

		Tempe	rature R	ange for	SAE \	/iscos	ity Numl	oers				
т	°C	-30	-20	-10	0		10	20		30	2	40
Temperature	(°F)	-10 0		20)	40	60		80		100	
							10W-3	0/40				
Constant	D1 C						5W-30	0/40				
Smartstrea	M D I.6					C)W-30					
						C)W-20					

Kappa 1.0/1.4 T-GDI

	Temperature Range for SAE Viscosity Numbers														
т	°C	-30		-20	-10	0		10		20		30	4	0	50
Temperature	(°F)		-10	0	2	0	40		60		80		100		120
For all countr	For all countries 0W-30, 5W-30														

Kappa 1.4 MPI

			Te	mperat	ture Ra	ange	for S	SAE Vi	iscos	ity N	lumb	ers				
Terrenerations	°C	-30		-20	-10		0		10		20		30		40	50
Temperature	(°F)		-10	0		20		40		60		80		100		120
										20V	V-50					
Except Europ	oe*1									15V	V-40					
Middle East										10V	V-30					
							5\	V-20,	, 5W-	-30						
										20V	V-50					
For Europe	*3									15V	V-40					
Middle Eas										10V	V-30					
							5\	V-20,	, 5W	-30						

*1. For better fuel economy, it is recommended to use the engine oil of a viscosity grade SAE 5W-20. However, if the engine oil is not available in your country, select the proper engine

- *2. Middle East includes Morocco, Sudan and Egypt. IRAN, INDIA, LIBIA, ALGERIA, TUNISIA
- *3. For better fuel economy, it is recommended to use the engine oil of a viscosity grade SAE 5W-30. However, if the engine oil is not available in your country, select the proper engine oil using the engine oil viscosity chart.

			Temp	eratı	ure Rai	nge [.]	for SA	AE Vi	scos	ity N	umb	ers				
Tem-	°C	-30	-20	0	-10		0		10		20		30		40	50
pera- ture	(°F)		-10	0		20		40		60		80		100		120
	For Europe							-40, -30,*			-					
	Except							,		20V	V-50 V-40	-				
1.6L	Europe & Middle East ^{*3}						OW	-20,	5W-		V-30					
MPI								5W	-30	200	V-50					
	For Middle East										V-40 V-30					
							5W	/-30,	5W-	-40						

Gasoline 1.6L MPI

- *1. For better fuel economy, it is recommended to use the engine oil of a viscosity grade SAE 5W-20 (Except Middle East) or 5W-30 (For Middle East). However, if the engine oil is not available in your country, select the proper engine oil using the engine oil viscosity chart.
- *2. For better fuel economy, it is recommended to use the engine oil of a viscosity grade SAE 5W-30 (ACEA A5/B5).
- *3. Middle East includes Libya, Algeria, Morocco, Tunisia, Sudan, Egypt and Iran.

		Т	emper	ature R	ange	for S	SAE V	'iscos	ity N	lumb	ers				
Tem- pera- ture	°C	-30 -20		-1(-10		0			20		30		40	50
	(°F)	-1()	0	20		40		60		80		100		12
Gasoline 1.6L T-GDI									200	V-50					
									15V	V-40					
									10V	V-30					
						5\	5W-30, 5W-40								

Gasoline 1.6L T-GDI

Vehicle Identification Number (VIN)



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

The number is punched on the floor under the passenger seat. To check the number, remove the cover (1).

VIN label

Type B (if equipped)



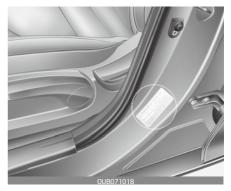
The VIN is also on a plate attached to the top of the dashboard. The number on the plate can easily be seen through the windshield from outside.

Vehicle certification label (if equipped)



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

Tire specification and pressure label



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

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

Engine number

Gasoline engine (1.4 MPI)



Gasoline engine (1.4 T-GDI)



Gasoline engine (1.0 T-GDI)



Gasoline engine (1.6 MPI)



Gasoline engine (1.6 T-GDI)

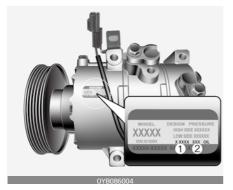


Smart stream D 1.6



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

Air conditioner compressor label Refrigerant label (if equipped)



A compressor label informs you the type of compressor your vehicle is equipped with such as model, supplier part number, production number, refrigerant (1) and refrigerant oil (2).



The refrigerant label is located :

- Type A: The underside of the hood
- Type B: The front of the engine room.

Declaration of conformity CECE 0678

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

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

http://www.kia-hotline.com

Fuel label (if equipped)

Gasoline (Petrol) engine

The fuel label is attached on the fuel filler door.



• A. Octane rating of unleaded Gasoline (Petrol)

- 1. RON/ROZ: Research Octane Number
- 2. (R+M)/2, AKI: Anti Knock Index
- B. Identifiers for Petrol-type fuels
 * This symbol means usable fuel. Do not use any other fuel.
- C. For further details, refer to the "Fuel requirements" on page 1-2.

Diesel engine

The fuel label is attached on the fuel filler door.

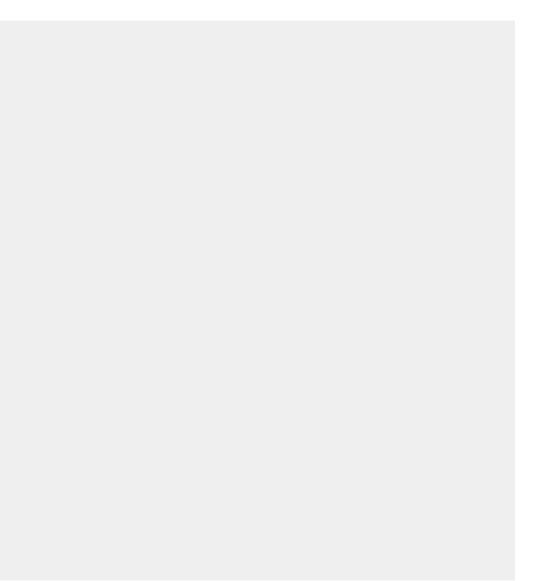
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Specifications, Consumer information and Reporting safety defects



- A. Fuel: Diesel
- B. Identifiers for FAME containing Diesel-type Fuels
 - * This symbol means usable fuel. Do not use any other fuel.
- C. For further details, refer to the "Fuel requirements" on page 1-2.

Abbreviation A



ABBREVIATION

ABS Anti-Lock Brake System

ACC

Accesory

AVN Audio Video Navigation

BCW Blind-spot Collision Warning

CC

DPF

EPB

Cruise Control

CRS Child Restraint System

DAW Driver Attention Warning

DCT Double Clutch Transmission

Diesel Particulate Filter

DRL Daytime Running Light

EBD Flectronic Brake force Distribution

ECM Electrochromic Mirror

Electronic Parking Brake

EPS Electronic Power Steering ESC Electronic Stability Control ESS **Emergency Stop Signal** FCA Forward Collision-Avoidance Assist GAW Gross Axle Weight GAWR Gross Axle Weight Rating GPF Gasoline Particulate Filter GPS **Global Positioning System** GVW Gross Vehicle Weight GVWR Gross Vehicle Weight Rating HAC Hill-start Assist Control HID High-Intensity Discharge ISG Idle Stop and Go ISLW Intelligent Speed Limit Warning LFA Lane Following Assist LKA

A _____ 2

ABBREVIATION

Lane Keeping Assist

MIL

Malfunction Indicator Lamp

MPI

Multi Point Injection

ODO

Odometer

PDW

Parking Distance Warning

RCCW

Rear Cross-Traffic Collision Warning

RVM

Rear View Monitor

SCC

Smart Cruise Control

SCR

Selective Catalytic Reduction

SRS

Supplemental Restraint System

T-GDI

Turocharger Gasoline Direct Injection

ТМК

Tire Mobility Kit

TPMS

Tire Pressure Monitoring System

VIN

Vehicle Identification Number

VSM

Vehicle Stability Management